

**TEST REPORT****Covering the  
DYNAMIC FREQUENCY SELECTION (DFS)  
REQUIREMENTS  
OF****FCC Part 15 Subpart E (UNII), RSS-247 Issue 1****Aruba Networks  
Model(s): APEX0102**COMPANY: Aruba Networks  
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TEST ENGINEER: Mehran Birgani

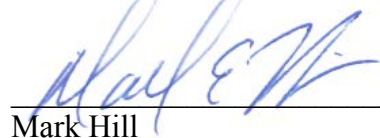
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### VALIDATING SIGNATORIES

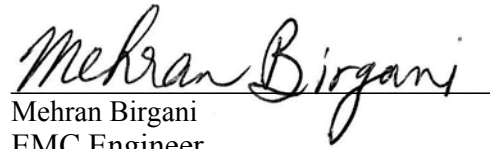
PROGRAM MGR /  
TECHNICAL REVIEWER:



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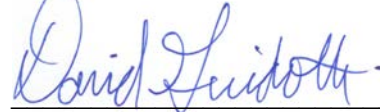
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**REVISION HISTORY**

| Rev # | Date               | Comments           | Modified By    |
|-------|--------------------|--------------------|----------------|
| -     | September 18, 2015 | Initial Release    | -              |
| 1     | November 2, 2015   | Updated model name | David Guidotti |

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**SCOPE**

Test data has been taken pursuant to the relevant DFS requirements of the following standard(s):

- FCC Part 15 Subpart E Unlicensed National Information Infrastructure (U-NII) Devices.
- RSS-247 Issue 1, Section 6.3.

Tests were performed in accordance with these standards together with the current published versions of the basic standards referenced therein including FCC KDB 905462 D02 as outlined in NTS Silicon Valley test procedures. The test results recorded herein are based on a single type test of the Aruba Networks model APEX0102 and therefore apply only to the tested sample. The sample was selected and prepared by Rob Hastings of Aruba Networks.

**OBJECTIVE**

The objective of the manufacturer is to comply with the standards identified in the previous section. In order to demonstrate compliance, the manufacturer or a contracted laboratory makes measurements and takes the necessary steps to ensure that the equipment complies with the appropriate technical standards. Compliance with some DFS features is covered through a manufacturer statement or through observation of the device.

**STATEMENT OF COMPLIANCE**

The tested sample of the Aruba Networks model APEX0102 complied with the DFS requirements of FCC Part 15.407(h)(2), and RSS-247 Issue 1, Section 6.3.

Maintenance of compliance is the responsibility of the manufacturer. Any modifications to the product should be assessed to determine their potential impact on the compliance status of the device with respect to the standards detailed in this test report.

**DEVIATIONS FROM THE STANDARD**

No deviations were made from the test methods and requirements covered by the scope of this report.

**TEST RESULTS****TEST RESULTS SUMMARY – FCC Part 15, MASTER DEVICE**

| <b>Table 1 - FCC Part 15 Subpart E Master Device Test Result Summary (20MHz BW)</b>                                                                                                                                                                                                                                                                                                                                                           |                       |               |                 |                    |            |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|-----------------|--------------------|------------|--------|
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                   | Radar Type            | EUT Frequency | Measured Value  | Requirement        | Test Data  | Status |
| In-Service Monitoring Detection Threshold                                                                                                                                                                                                                                                                                                                                                                                                     | Type 1 through Type 6 | 5500 MHz      | -63dBm (Note 2) | -64dBm (Note 2)    | Appendix B | Pass   |
| Bandwidth Detection                                                                                                                                                                                                                                                                                                                                                                                                                           | Type 0                | Varies        | 20 MHz          | 100% of the 99% BW | -          | Pass   |
| 1) Tests were performed using the radiated test method.<br>2) The measured detection threshold is based on testing the master device using the radiated test method when connected to an antenna with a nominal gain of 9.1 dBi. The limit is based on an eirp of more than 23 dBm.<br>3) The in-service monitoring detection threshold and detection probability measurements were made with the device operating in the 5500-5700 MHz band. |                       |               |                 |                    |            |        |

| <b>Table 2 - FCC Part 15 Subpart E Master Device Test Result Summary (40MHz BW)</b>                                                                                                                                                                                                                                                                                                                                                           |                       |               |                 |                    |            |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|-----------------|--------------------|------------|--------|
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                   | Radar Type            | EUT Frequency | Measured Value  | Requirement        | Test Data  | Status |
| In-Service Monitoring Detection Threshold                                                                                                                                                                                                                                                                                                                                                                                                     | Type 1 through Type 6 | 5500 MHz      | -63dBm (Note 2) | -64dBm (Note 2)    | Appendix B | Pass   |
| Bandwidth Detection                                                                                                                                                                                                                                                                                                                                                                                                                           | Type 0                | Varies        | 38 MHz          | 100% of the 99% BW | -          | Pass   |
| 1) Tests were performed using the radiated test method.<br>2) The measured detection threshold is based on testing the master device using the radiated test method when connected to an antenna with a nominal gain of 9.1 dBi. The limit is based on an eirp of more than 23 dBm.<br>3) The in-service monitoring detection threshold and detection probability measurements were made with the device operating in the 5500-5700 MHz band. |                       |               |                 |                    |            |        |

| <b>Table 3 - FCC Part 15 Subpart E Master Device Test Result Summary (80MHz BW)</b>                                                                                                                                                                                                                                                                                                                                                           |                       |               |                 |                    |                                  |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|-----------------|--------------------|----------------------------------|--------|
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                   | Radar Type            | EUT Frequency | Measured Value  | Requirement        | Test Data                        | Status |
| Channel Availability Check (CAC) Time                                                                                                                                                                                                                                                                                                                                                                                                         | Type 0                | 5530 MHz      | 60s             | $\geq 60s$         | Appendix D                       | Pass   |
| CAC Detection Threshold                                                                                                                                                                                                                                                                                                                                                                                                                       | Type 0                | 5530 MHz      | -63dBm          | -64dBm (Note 2)    | Appendix D                       | Pass   |
| In-Service Monitoring Detection Threshold                                                                                                                                                                                                                                                                                                                                                                                                     | Type 1 through Type 6 | 5530 MHz      | -63dBm (Note 2) | -64dBm (Note 2)    | Appendix B                       | Pass   |
| Bandwidth Detection                                                                                                                                                                                                                                                                                                                                                                                                                           | Type 0                | Varies        | 80 MHz          | 100% of the 99% BW | -                                | Pass   |
| Channel closing transmission time                                                                                                                                                                                                                                                                                                                                                                                                             | Type 0                | 5530 MHz      | 0ms             | $\leq 260ms$       | Appendix C                       | Pass   |
| Channel move time                                                                                                                                                                                                                                                                                                                                                                                                                             | Type 0                | 5530 MHz      | 0s              | $\leq 10s$         | Appendix C                       | Pass   |
| Non-occupancy period                                                                                                                                                                                                                                                                                                                                                                                                                          | Type 0                | 5530 MHz      | > 30 min        | > 30 min           | Appendix C                       | Pass   |
| Uniform Loading                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | -             | -               | Uniform Loading    | Refer to operational description | -      |
| 1) Tests were performed using the radiated test method.<br>2) The measured detection threshold is based on testing the master device using the radiated test method when connected to an antenna with a nominal gain of 9.1 dBi. The limit is based on an eirp of more than 23 dBm.<br>3) The in-service monitoring detection threshold and detection probability measurements were made with the device operating in the 5500-5700 MHz band. |                       |               |                 |                    |                                  |        |

**Note:** The testing was performed to KDB 905462 D02 DFS Procedures v01r02; however, for In-Service Monitoring Detection Probability for bins 3-4, 99% Bandwidth was selected instead of Bandwidth Detection Measurement.

### MEASUREMENT UNCERTAINTIES

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level, with a coverage factor ( $k=2$ ) and were calculated in accordance with UKAS document LAB 34.

| Measurement                                                | Measurement Unit | Expanded Uncertainty              |
|------------------------------------------------------------|------------------|-----------------------------------|
| Timing<br>(Channel move time, aggregate transmission time) | ms               | Timing resolution<br>$\pm 0.24\%$ |
| Timing<br>(non occupancy period)                           | seconds          | 5 seconds                         |
| DFS Threshold (radiated)                                   | dBm              | 1.6                               |
| DFS Threshold (conducted)                                  | dBm              | 1.2                               |

**EQUIPMENT UNDER TEST (EUT) DETAILS****GENERAL**

The the Aruba Networks model APEX0102 is MIMO 802.11a/b/g/n/ac wireless access point designed to be installed and used outdoor.

The sample was received on September 8, 2015 and tested on September 8-10, 2015. The EUT consisted of the following component(s):

| Manufacturer  | Model  | Description  | Serial Number |
|---------------|--------|--------------|---------------|
| Aruba Network | AP-277 | Access Point | CL0022532     |

The manufacturer declared values for the EUT operational characteristics that affect DFS are as follows:

**Operating Modes (5250 – 5350 MHz, 5470 – 5725 MHz)**

- ☒ Master Device 5250-5350 MHz
- ☒ Master Device 5470-5725 MHz

**Antenna Gains / EIRP (5250 – 5350 MHz, 5470 – 5725 MHz)**

|                            | 5250 – 5350 MHz | 5470 – 5725 MHz |
|----------------------------|-----------------|-----------------|
| Lowest Antenna Gain (dBi)  | 9.1             | 9.1             |
| Highest Antenna Gain (dBi) | 9.1             | 9.1             |
| EIRP Output Power (dBm)    | 29.32           | 29.21           |
| 99% BW (20MHz)             | 18.6MHz         |                 |
| 99% BW (40MHz)             | 36.8MHz         |                 |
| 99% BW (80MHz)             | 75.9MHz         |                 |

- ☒ Power can exceed 200mW eirp

**Channel Protocol**

- ☒ IP Based

**ENCLOSURE**

The EUT enclosure measures approximately 22x22x14 centimeters. It is primarily constructed of aluminum steel at the rear and uncoated coated plastic at front of unit.

**MODIFICATIONS**

The EUT did not require modifications during testing in order to comply with the requirements of the standard(s) referenced in this test report.

**SUPPORT EQUIPMENT**

The following equipment was used as support equipment for testing:

| Manufacturer         | Model        | Description   | Serial Number  | FCC ID     |
|----------------------|--------------|---------------|----------------|------------|
| Dell (Console)       | E5440        | Laptop        | 4YQTF12        | DoC        |
| <i>Dell (Client)</i> | <i>E5440</i> | <i>Laptop</i> | <i>GMPNP12</i> | <i>DoC</i> |
| Dell (Server)        | E5440        | Laptop        | HMPNP12        | DoC        |
| Aruba Network        | 7010         | Controller    | CG0002909      | -          |

The italicized device was the client device.

**EUT INTERFACE PORTS**

The I/O cabling configuration during testing was as follows:

| Port             | Connected To          | Cable(s)    |                        |            |
|------------------|-----------------------|-------------|------------------------|------------|
|                  |                       | Description | Shielded or Unshielded | Length (m) |
| Power Port       | Main                  | Multi-wire  | Unshielded             | 2.0        |
| Console          | Dell laptop (Console) | Micro USB   | Shielded               | 1.0        |
| E0/POE           | Controller Port 0     | CAT 5       | Unshielded             | 10.0       |
| Laptop (Console) | Controller Port 2     | CAT 5       | Unshielded             | 10.0       |
| Laptop (Server)  | Controller Port 3     | CAT 5       | Unshielded             | 1.5        |

**EUT OPERATION**

The EUT was operating with the following software listed below. The software is secured by Aruba OS to prevent the user from disabling the DFS function.

Master Device: 6.4.4.0 Build 51246

The manufacturer provided special software that over-rode the non-occupancy mechanism (allowing return to the same channel) for the purposes of determining the probability of detection. This test feature was disabled and the normal operating software enabled for verifying the 30-minute non-occupancy period and channel move time.

The start of the Channel Availability Check was the instant the command to change channel was sent.

During the in-service monitoring detection probability and channel moving tests the system was configured with a streaming video file from the master device (sourced by the PC connected to the master device via an Ethernet interface) to the client device.

The streamed file was FCC movie plus iperf and the client device was using VLC to view the file. The channel loading was evaluated to be 17.2-18.3% (refer to figure 9-11) meeting the approximately 17% loading as required by FCC KDB 905462 D02.

**RADAR WAVEFORMS**

| Table 4 - FCC Short Pulse Radar Test Waveforms                                                                                       |    |                                                   |                                                                                                             |                                                           |                                    |                                |
|--------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------|--------------------------------|
| Radar Type                                                                                                                           |    | Pulse Width<br>(μsec)                             | PRI<br>(μsec)                                                                                               | Pulses /<br>burst                                         | Minimum<br>Detection<br>Percentage | Minimum<br>Number of<br>Trials |
| 0                                                                                                                                    |    | 1                                                 | 1428                                                                                                        | 18                                                        | See <b>Note 1</b>                  |                                |
| 1                                                                                                                                    | 1a | 1                                                 | 15 unique PRI<br>values randomly<br>selected from<br>the list of 23 PRI<br>values in <b>Note 2</b><br>below | Round<br>Up<br>1/360*<br>19*10 <sup>6</sup> /<br>PRI μsec | 60%                                | 15                             |
|                                                                                                                                      | 1b |                                                   | 518-3066 with<br>minimum<br>increment of 1<br>μsec, excluding<br>PRI values<br>selected in 1a               |                                                           |                                    | 15                             |
| 2                                                                                                                                    |    | 1-5                                               | 150-230                                                                                                     | 23-29                                                     | 60%                                | 30                             |
| 3                                                                                                                                    |    | 6-10                                              | 200-500                                                                                                     | 16-18                                                     | 60%                                | 30                             |
| 4                                                                                                                                    |    | 11-20                                             | 200-500                                                                                                     | 12-16                                                     | 60%                                | 30                             |
| Aggregate (Radar Types 1-4)                                                                                                          |    |                                                   |                                                                                                             |                                                           | 80%                                | 120                            |
| <b>Note 1:</b> Short Pulse Radar Type 0 is used for the detection bandwidth test, channel move time, and channel closing time tests. |    |                                                   |                                                                                                             |                                                           |                                    |                                |
| <b>Note 2:</b> Pulse repetition intervals values for Test 1a above                                                                   |    |                                                   |                                                                                                             |                                                           |                                    |                                |
| Pulse Repetition Frequency<br>Number                                                                                                 |    | Pulse Repetition Frequency<br>(Pulses Per Second) |                                                                                                             | Pulse Repetition Interval<br>(Microseconds)               |                                    |                                |
| 1                                                                                                                                    |    | 1930.5                                            |                                                                                                             | 518                                                       |                                    |                                |
| 2                                                                                                                                    |    | 1858.7                                            |                                                                                                             | 538                                                       |                                    |                                |
| 3                                                                                                                                    |    | 1792.1                                            |                                                                                                             | 558                                                       |                                    |                                |
| 4                                                                                                                                    |    | 1730.1                                            |                                                                                                             | 578                                                       |                                    |                                |
| 5                                                                                                                                    |    | 1672.2                                            |                                                                                                             | 598                                                       |                                    |                                |
| 6                                                                                                                                    |    | 1618.1                                            |                                                                                                             | 618                                                       |                                    |                                |
| 7                                                                                                                                    |    | 1567.4                                            |                                                                                                             | 638                                                       |                                    |                                |
| 8                                                                                                                                    |    | 1519.8                                            |                                                                                                             | 658                                                       |                                    |                                |
| 9                                                                                                                                    |    | 1474.9                                            |                                                                                                             | 678                                                       |                                    |                                |
| 10                                                                                                                                   |    | 1432.7                                            |                                                                                                             | 698                                                       |                                    |                                |
| 11                                                                                                                                   |    | 1392.8                                            |                                                                                                             | 718                                                       |                                    |                                |
| 12                                                                                                                                   |    | 1355                                              |                                                                                                             | 738                                                       |                                    |                                |
| 13                                                                                                                                   |    | 1319.3                                            |                                                                                                             | 758                                                       |                                    |                                |
| 14                                                                                                                                   |    | 1285.3                                            |                                                                                                             | 778                                                       |                                    |                                |
| 15                                                                                                                                   |    | 1253.1                                            |                                                                                                             | 798                                                       |                                    |                                |
| 16                                                                                                                                   |    | 1222.5                                            |                                                                                                             | 818                                                       |                                    |                                |
| 17                                                                                                                                   |    | 1193.3                                            |                                                                                                             | 838                                                       |                                    |                                |
| 18                                                                                                                                   |    | 1165.6                                            |                                                                                                             | 858                                                       |                                    |                                |
| 19                                                                                                                                   |    | 1139                                              |                                                                                                             | 878                                                       |                                    |                                |
| 20                                                                                                                                   |    | 1113.6                                            |                                                                                                             | 898                                                       |                                    |                                |
| 21                                                                                                                                   |    | 1089.3                                            |                                                                                                             | 918                                                       |                                    |                                |
| 22                                                                                                                                   |    | 1066.1                                            |                                                                                                             | 938                                                       |                                    |                                |
| 23                                                                                                                                   |    | 326.2                                             |                                                                                                             | 3066                                                      |                                    |                                |

**Table 5 - FCC Long Pulse Radar Test Waveforms**

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

**Table 6 - FCC Frequency Hopping Radar Test Waveforms**

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses / hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Detection Percentage | Minimum Number of Trials |
|------------|--------------------|------------|--------------|--------------------|--------------------------------|------------------------------|--------------------------|
| 6          | 1                  | 333        | 9            | 0.333              | 300                            | 70%                          | 30                       |

## DFS TEST METHODS

### RADIATED TEST METHOD

The combination of master and slave devices is located in an anechoic chamber. The simulated radar waveform is transmitted from a directional horn antenna (typically an EMCO 3115) toward the unit performing the radar detection (radar detection device, RDD). Every effort is made to ensure that the main beam of the EUT's antenna is aligned with the radar-generating antenna which is oriented in vertical polarization.

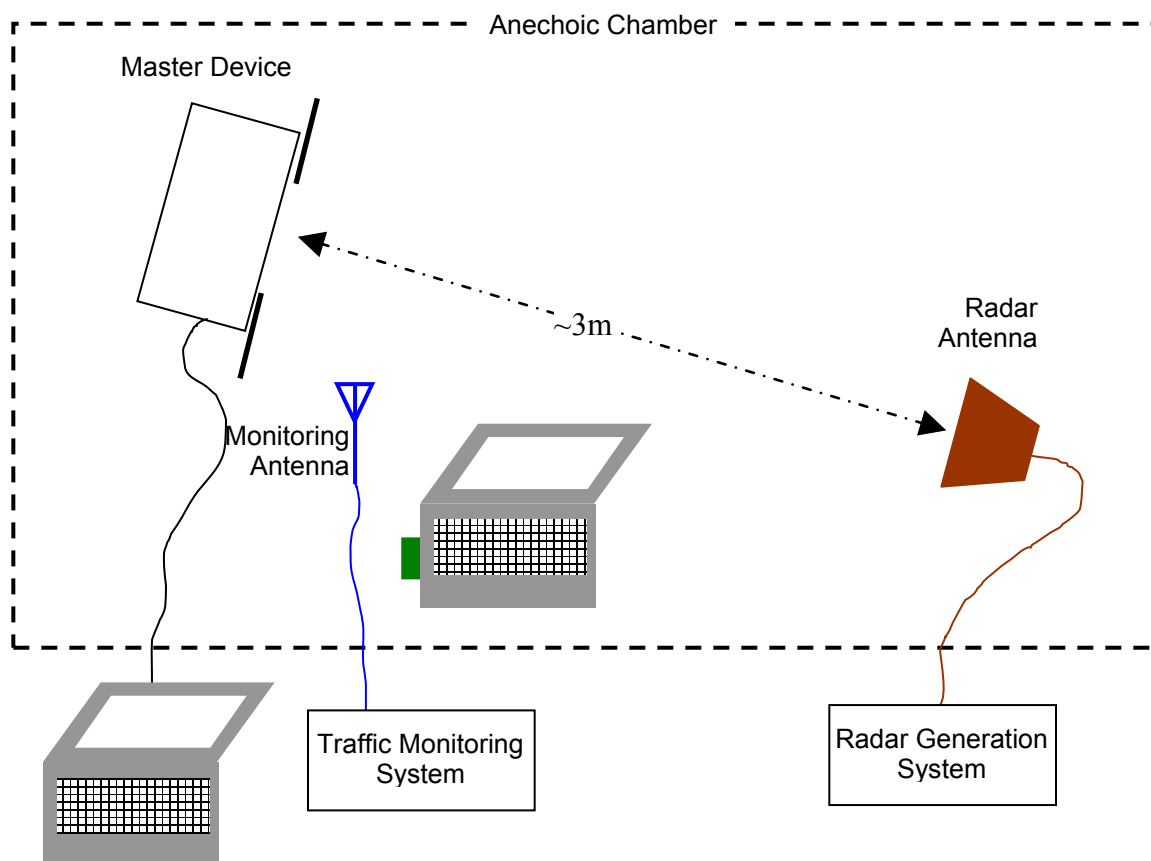


Figure 1 Test Configuration for radiated Measurement Method

The signal level of the simulated waveform is set to a reference level equal to the threshold level (plus 1dB if testing against FCC requirements). Lower levels may also be applied on request of the manufacturer. The level reported is the level at the RDD antenna and so it is not corrected for the RDD's antenna gain. The RDD is configured with the lowest gain antenna assembly intended for use with the device.

The signal level is verified by measuring the CW signal level from the radar generation system using a reference antenna of gain  $G_{REF}$  (dBi). The radar signal level is calculated from the measured level,  $R$  (dBm), and any cable loss,  $L$  (dB), between the reference antenna and the measuring instrument:

$$\text{Applied level (dBm)} = R - G_{REF} + L$$

If both master and client devices have radar detection capability then the device not under test is positioned with absorbing material between its antenna and the radar generating antenna, and the radar level at the non RDD is verified to be at least 20dB below the threshold level to ensure that any responses are due to the RDD detecting radar.

The antenna connected to the channel monitoring subsystem is positioned to allow both master and client transmissions to be observed, with the level of the EUT's transmissions between 6 and 10dB higher than those from the other device.

## **DFS MEASUREMENT INSTRUMENTATION**

### **RADAR GENERATION SYSTEM**

An Agilent PSG is used as the radar-generating source. The integral arbitrary waveform generators are programmed using Agilent's "Pulse Building" software and NTS Silicon Valley custom software to produce the required waveforms, with the capability to produce both un-modulated and modulated (FM Chirp) pulses. Where there are multiple values for a specific radar parameter then the software selects a value at random and, for FCC tests, the software verifies that the resulting waveform is truly unique.

With the exception of the hopping waveforms required by the FCC's rules (see below), the radar generator is set to a single frequency within the radar detection bandwidth of the EUT. The frequency is varied from trial to trial by stepping in 5MHz steps. For radar types with variable parameters, each detection probability trial is performed using a unique set of parameters obtained by a random selection with uniform distribution for each of the variable parameters.

Frequency hopping radar waveforms are simulated using a time domain model. A randomly hopping sequence algorithm (which uses each channel in the hopping radar's range once in a hopping sequence) generates a hop sequence. A segment of the first 100 elements of the hop sequence are then examined to determine if it contains one or more frequencies within the radar detection bandwidth of the EUT. If it does not then the first element of the segment is discarded and the next frequency in the sequence is added. The process repeats until a valid segment is produced. The radar system is then programmed to produce bursts at time slots coincident with the frequencies within the segment that fall in the detection bandwidth. The frequency of the generator is stepped in 1 MHz increments across the EUT's detection range.

The radar signal level is verified during testing using a long duration pulse waveform generated in the same manner as the normal radar generated signals.

The generator output is connected to the coupling port of the conducted set-up or to the radar-generating antenna. The radar generating antenna (when used) is oriented for vertical polarization.

## CHANNEL MONITORING SYSTEM

Channel monitoring is achieved using a spectrum analyzer and digital storage oscilloscope. The analyzer is configured in a zero-span mode, center frequency set to the radar waveform's frequency or the center frequency of the EUT's operating channel. The IF output of the analyzer is connected to one input of the oscilloscope.

A signal generator output is set to send either the modulating signal directly or a pulse gate with an output pulse co-incident with each radar pulse. This output is connected to a second input on the oscilloscope and the oscilloscope displays both the channel traffic (via the if input) and the radar pulses on its display.

For in service monitoring tests the analyzer sweep time is set to > 20 seconds and the oscilloscope is configured with a data record length of 10 seconds for the short duration and frequency hopping waveforms, 20 seconds for the long duration waveforms. Both instruments are set for a single acquisition sequence. The analyzer is triggered 500ms before the start of the waveform and the oscilloscope is triggered directly by the modulating pulse train. Timing measurements for aggregate channel transmission time and channel move time are made from the oscilloscope data, with the end of the waveform clearly identified by the pulse train on one trace. The analyzer trace data is used to confirm that the last transmission occurred within the 10-second record of the oscilloscope. If necessary the record length of the oscilloscope is expanded to capture the last transmission on the channel prior to the channel move.

Channel availability check time timing plots are made using the analyzer. The analyzer is triggered at start of the EUT's channel availability check and used to verify that the EUT does not transmit when radar is applied during the check time.

The analyzer detector and oscilloscope sampling mode is set to peak detect for all plots.

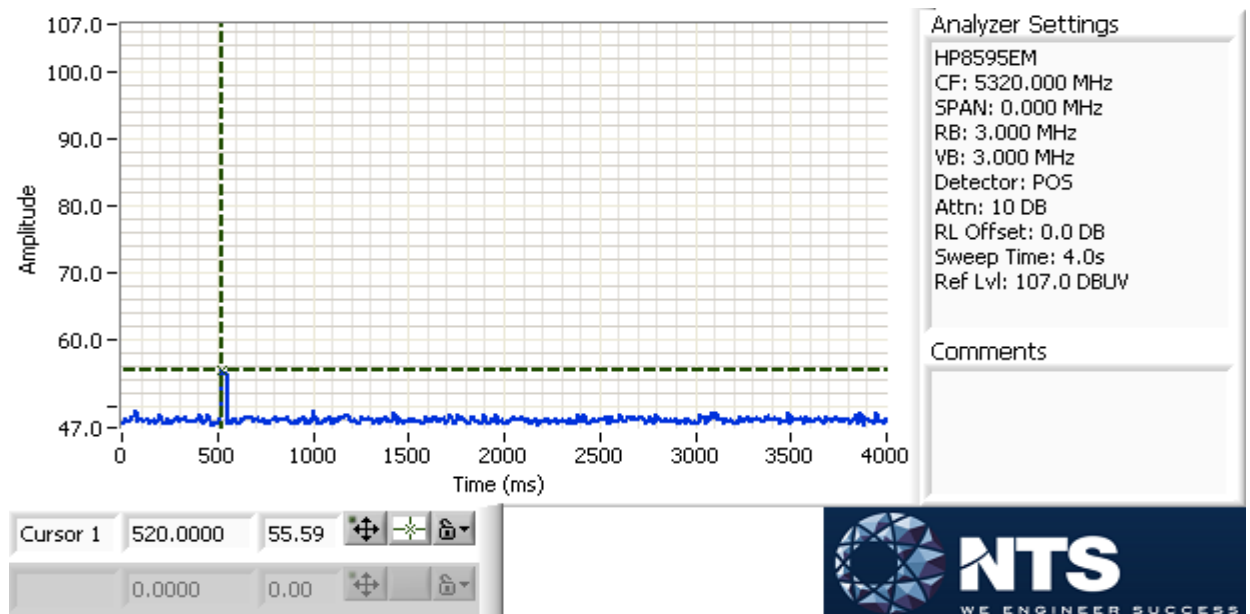


Figure 2 SA Noise Floor During Testing (radar shown at 520 ms)

**RADAR GENERATOR PLOTS**

The radar generator was connected to Spectrum Analyzer (SA) input, with the SA set to zero span, 3 MHz RBW, 3 MHz VBW. The SA IF output was connected to an oscilloscope to provide timing plots.

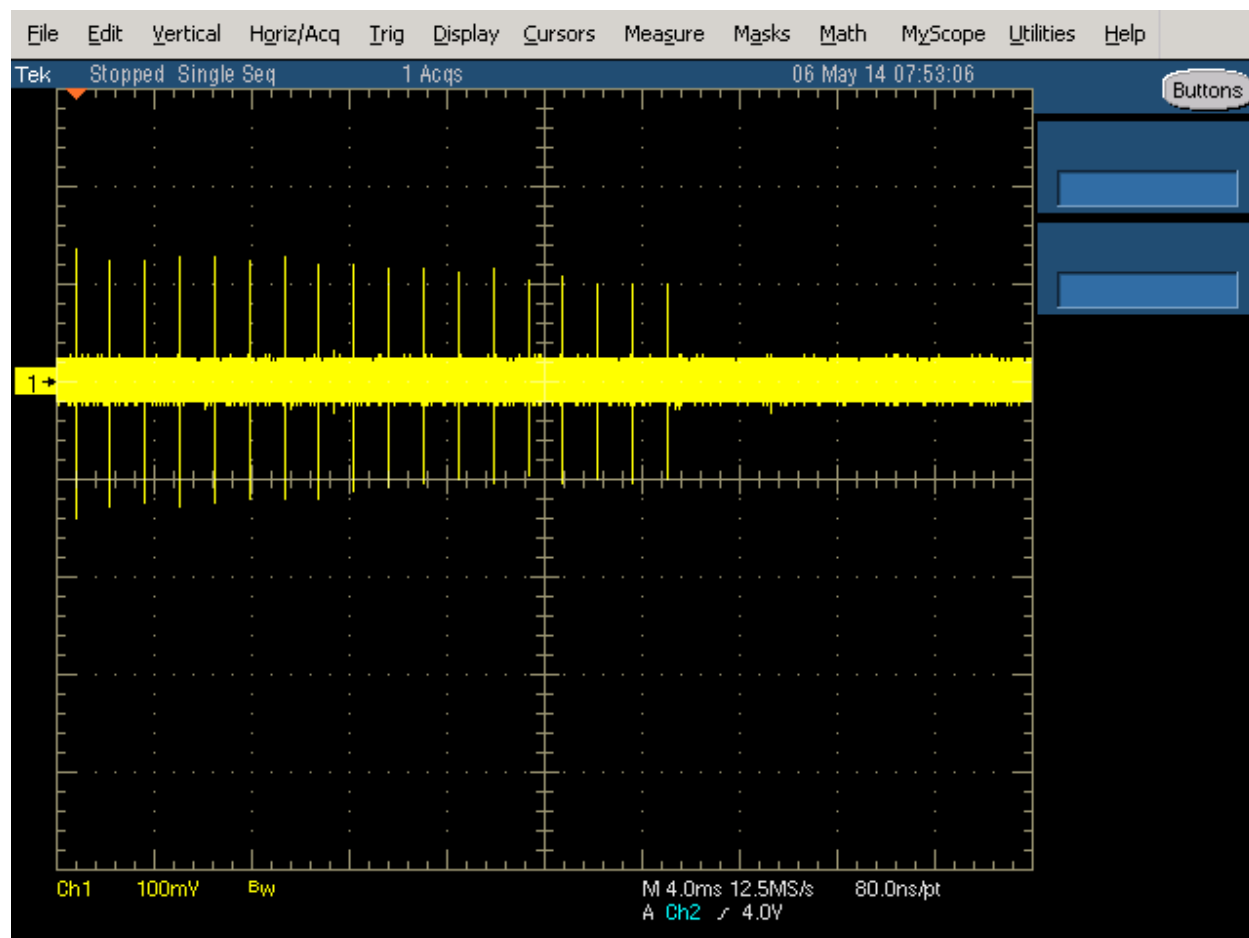


Figure 3 FCC Type 1 Radar (18 pulses)

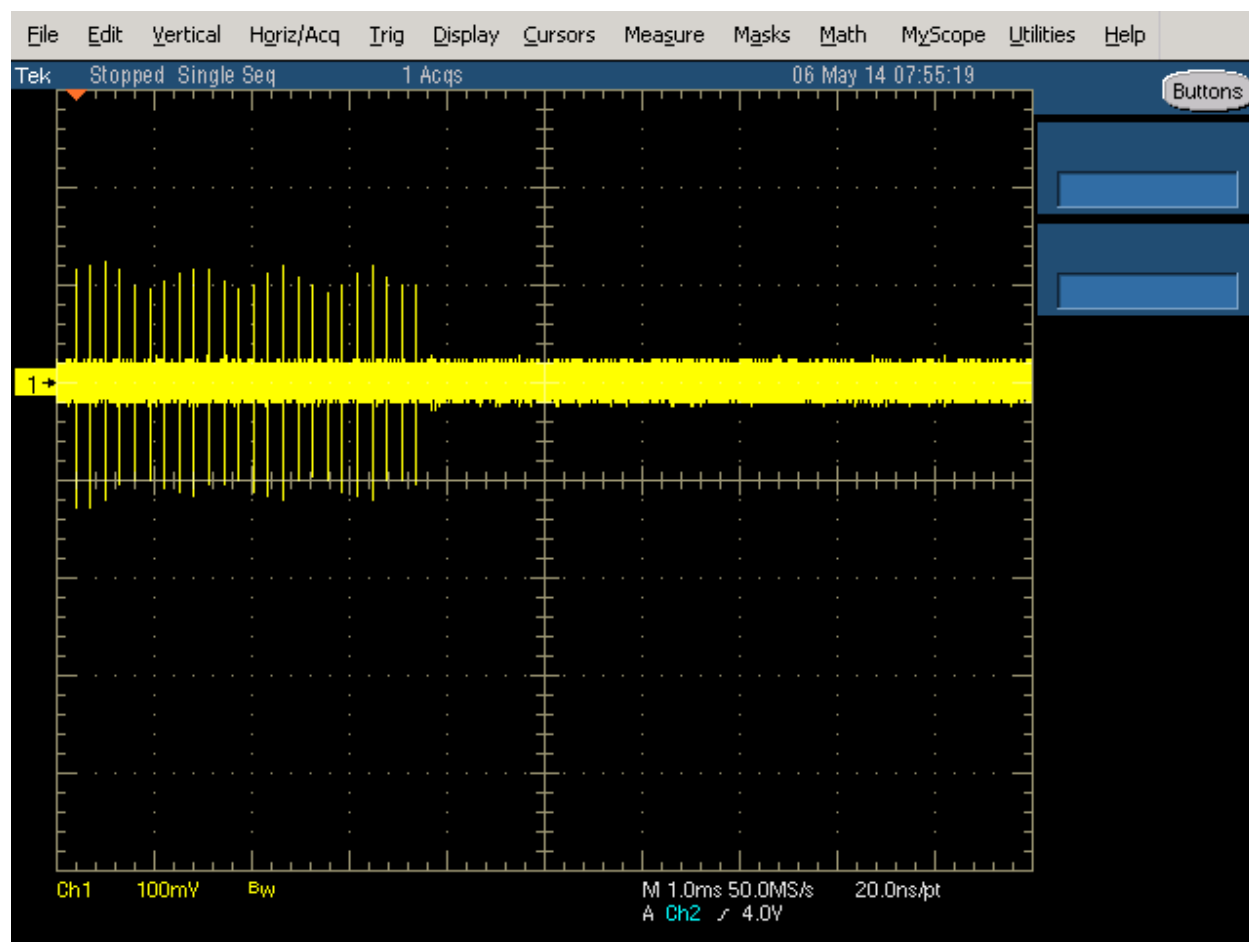


Figure 4 FCC Type 2 Radar (24 pulses)

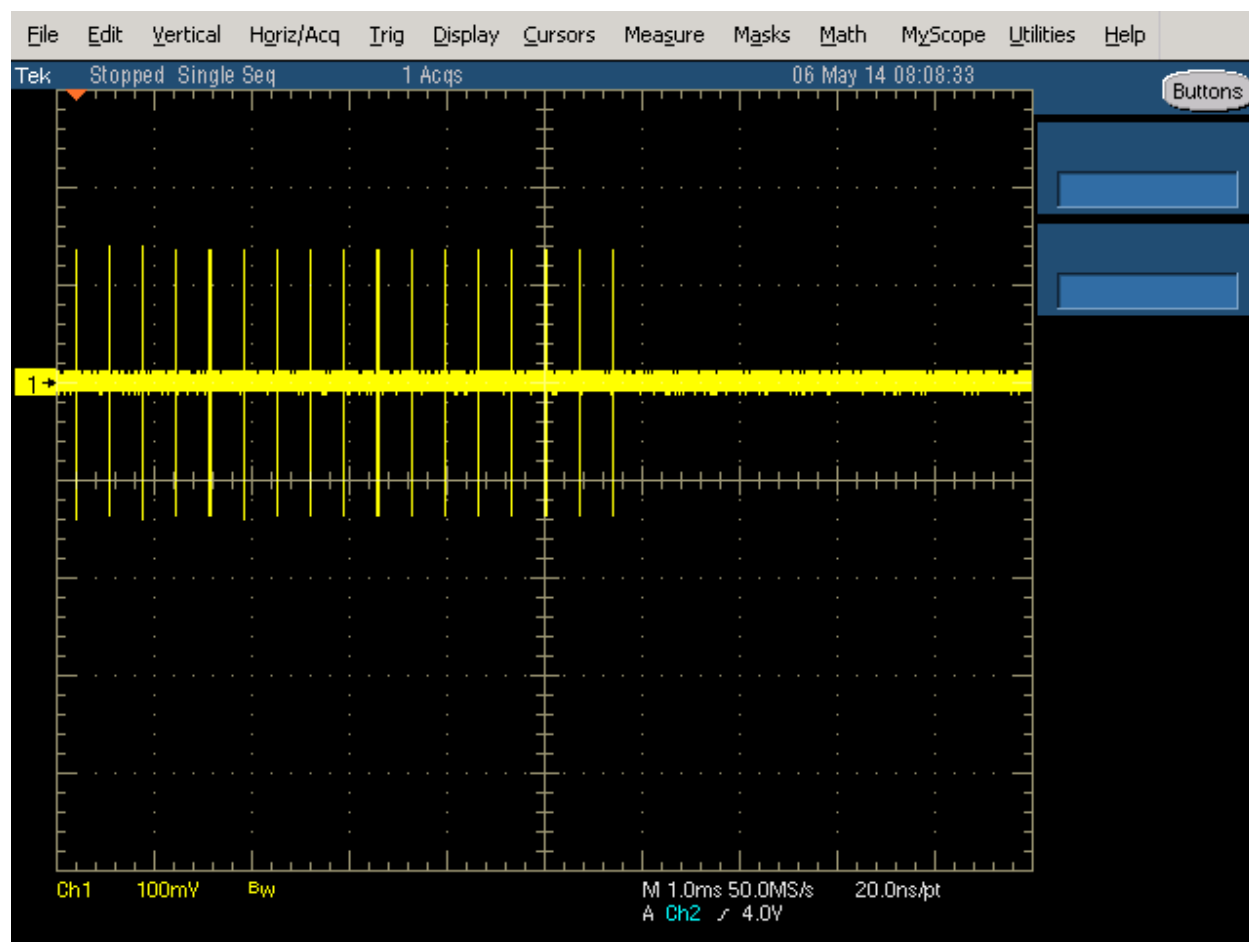


Figure 5 FCC Type 3 Radar (17 pulses)

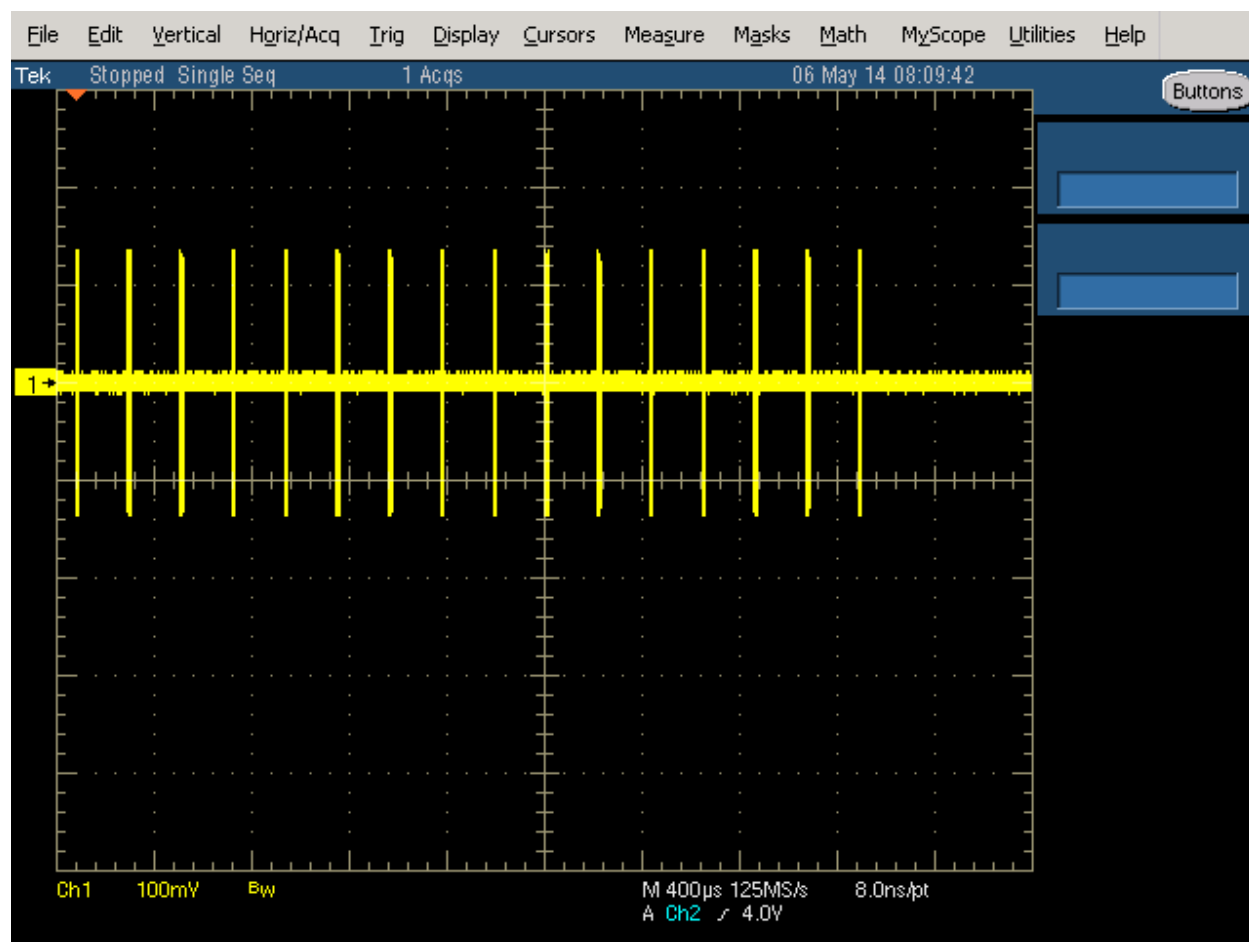


Figure 6 FCC Type 4 Radar (16 pulses)



Figure 7 FCC Type 5 Radar (burst with three pulses, 1650 μs first period)

The shape is round due to chirped frequency during pulse as the SA is in zero span with 3 MHz BW.

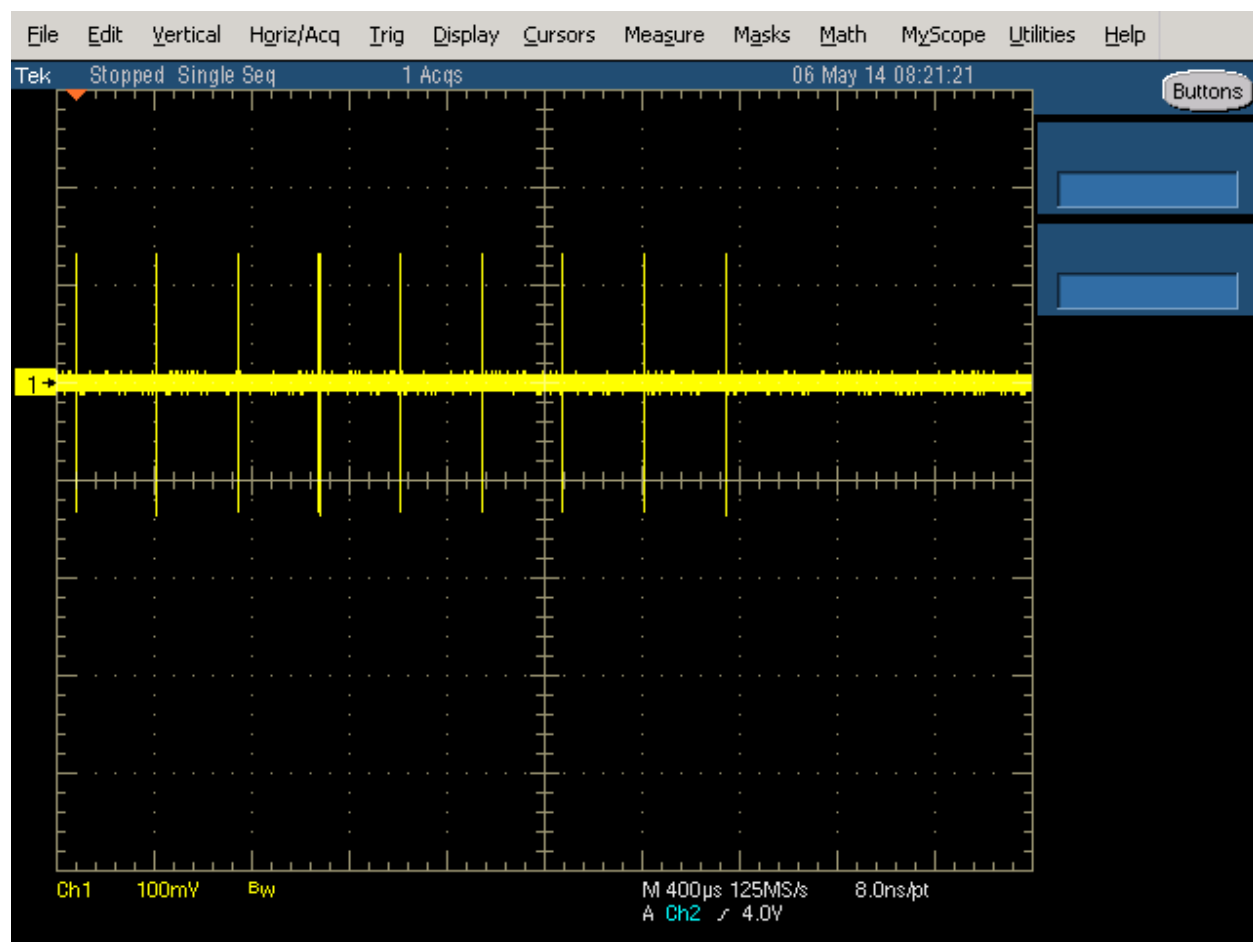


Figure 8 FCC Type 6 Radar (9 pulses in each burst)

**DFS MEASUREMENT METHODS****DFS RADAR DETECTION BANDWIDTH**

The radar detection bandwidth is determined by using FCC radar waveform 1 and applying radar pulses at offsets from the center channel frequency by multiples of 1MHz. These bursts are applied with no traffic on the channel. The first frequencies above and below the center channel frequency that have a detection rate below 90% define the radar bandwidth, the actual range being 1MHz below the upper frequency and 1MHz above the lower frequency.

**DFS – CHANNEL CLOSING TRANSMISSION TIME AND CHANNEL MOVE TIME**

Channel clearing and closing times are measured by applying a burst of radar with the device configured to change channel and by observing the channel for transmissions. The time between the end of the applied radar waveform and the final transmission on the channel is the channel move time.

The aggregate transmission closing time is measured in one of two ways:

FCC/KCC Notice No. 2010-48 – the total time of all individual transmissions from the EUT that are observed starting 200ms at the end of the last radar pulse in the waveform. This value is required to be less than 60ms.

**DFS – CHANNEL NON-OCCUPANCY AND VERIFICATION OF PASSIVE SCANNING**

The channel that was in use prior to radar detection by the master is additionally monitored for 30 minutes to ensure no transmissions on the vacated channel over the required non-occupancy period. This is achieved by tuning the spectrum analyzer to the vacated channel in zero-span mode and connecting the IF output to an oscilloscope. The oscilloscope is triggered by the radar pulse and set to provide a single sweep (in peak detect mode) that lasts for at least 30 minutes after the end of the channel move time.

**DFS CHANNEL AVAILABILITY CHECK TIME**

It is preferred that the EUT report when it starts the radar channel availability check. If the EUT does not report the start of the check time, then the time to start transmitting on a channel after switching the device on is measured to approximate the time from power-on to the end of the channel availability check. The start of the channel availability check is assumed to be 60 seconds prior to the first transmission on the channel.

To evaluate the channel availability check, a single burst of one radar type is applied within the first 2 seconds of the start of the channel availability check and it is verified that the device does not use the channel by continuing to monitor the channel for a period of at least 60 seconds. The test is repeated by applying a burst of radar in the last 2 seconds (i.e. between 58 and 60 seconds after the start of CAC when evaluating a 60-second CAC) of the channel availability check.

**UNIFORM LOADING**

Compliance with the FCC's channel loading requirement is demonstrated through the manufacturer's operational description for the device under test.

**TRANSMIT POWER CONTROL (TPC)**

Compliance with the transmit power control requirements for devices is demonstrated through measurements showing multiple power levels and manufacturer statements explaining how the power control is implemented.

## **SAMPLE CALCULATIONS**

### **DETECTION PROBABILITY / SUCCESS RATE**

The detection probability, or success rate, for any one radar waveform equals the number of successful trials divided by the total number of trials for that waveform.

In the case of the FCC requirements, for radar waveform types 1 through 4 an additional calculation is made to determine the average detection probability over all four radar waveform types. This calculation is the arithmetic mean of the four individual probabilities.

### **THRESHOLD LEVEL**

The threshold level is the level of the simulated radar waveform at the EUT's antenna. If the test is performed in a conducted fashion then the level at the rf input equals the level at the antenna plus the gain of the antenna assembly, in dBi. The gain of the antenna assembly equals the gain of the antenna minus the loss of the cabling between the rf input and the antenna. The lowest gain value for all antenna assemblies intended for use with the device is used when making this calculation.

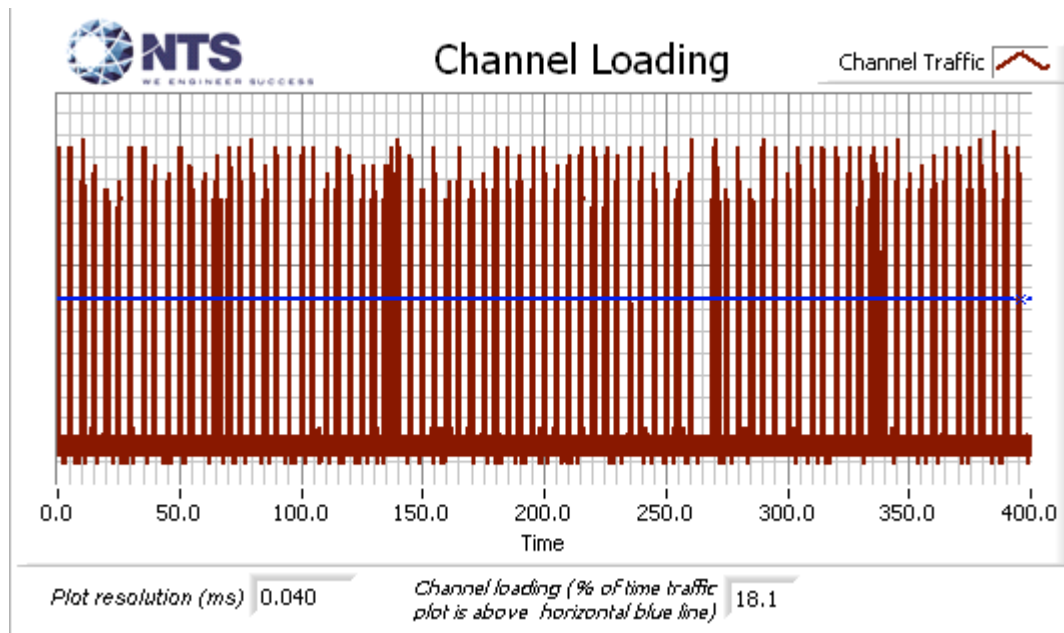
If the test is performed using the radiated method then the threshold level is the level at the antenna.

**Appendix A Test Equipment Calibration Data**

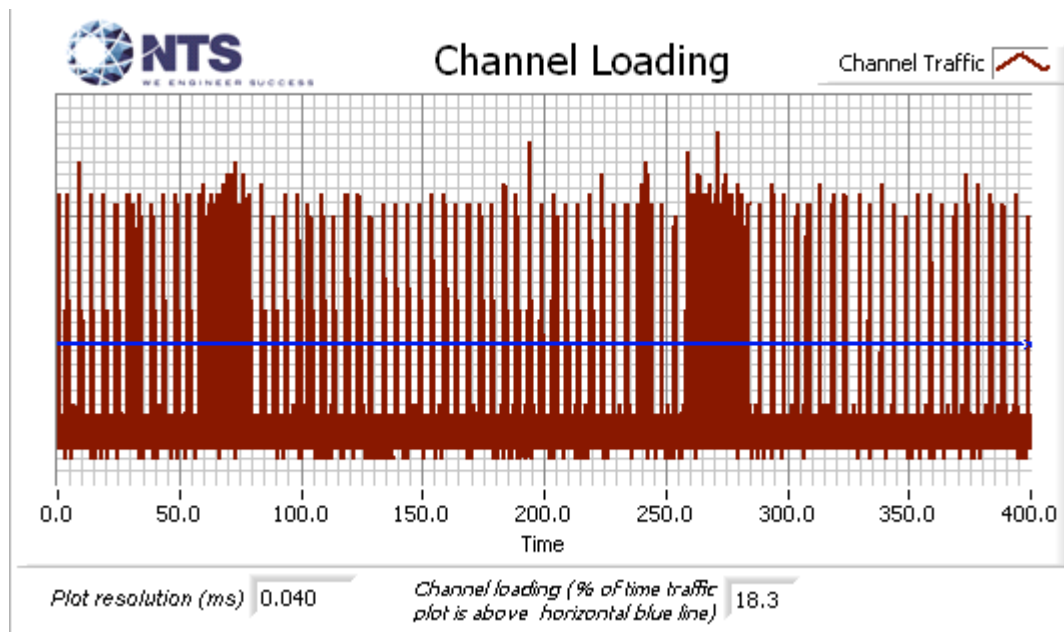
| <b><u>Manufacturer</u></b> | <b><u>Description</u></b>                      | <b><u>Model #</u></b> | <b><u>Asset #</u></b> | <b><u>Cal Due</u></b> |
|----------------------------|------------------------------------------------|-----------------------|-----------------------|-----------------------|
| Hewlett Packard            | EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         | 8595EM                | 780                   | 20-Mar-16             |
| ETS Lindgren               | Antenna, Horn, 1-18 GHz                        | 3117                  | 1662                  | 04-Jun-16             |
| Agilent Technologies       | PSG, Vector Signal Generator, (250kHz - 20GHz) | E8267C                | 1877                  | 16-Jun-16             |
| Tektronix                  | 500MHz, 2CH, 5GS/s Scope                       | TDS5052B              | 2118                  | 30-Oct-15             |

**Appendix B Test Data Tables for Radar Detection Probability**

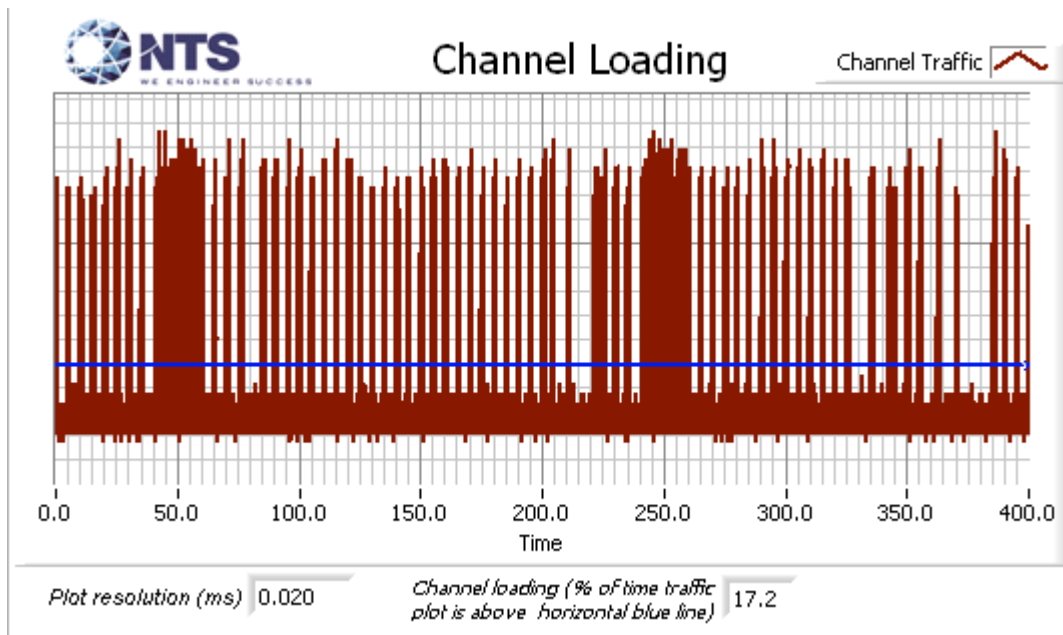
The plot below shows the channel loading during testing as evaluated over a 0.4 second period. The traffic was generated by a combination of streaming a video file and iperf.



**Figure 9 Channel Utilization During In-Service Detection Measurements (20MHz)**



**Figure 10 Channel Utilization During In-Service Detection Measurements (40MHz)**



**Figure 11 Channel Utilization During In-Service Detection Measurements (80MHz)**

**Table 7 - Detection Bandwidth Measurements (Bandwidth: +10MHz /-10MHz) 20 MHz**

| EUT Frequency | Radar Type                     | Radar Frequency | # Detected | # Not Detected | Success (%) |
|---------------|--------------------------------|-----------------|------------|----------------|-------------|
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5489.00 MHz     | 1          | 2              | 33          |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5490.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5491.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5492.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5493.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5494.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5495.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5500.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5505.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5506.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5507.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5508.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5509.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5510.00 MHz     | 10         | 0              | 100         |
| 5500.00 MHz   | FCC Short Pulse Radar (Type 0) | 5511.00 MHz     | 1          | 2              | 33          |

**Table 8 - Detection Bandwidth Measurements (Bandwidth: +19MHz /-19MHz) 40 MHz**

| EUT Frequency | Radar Type                     | Radar Frequency | # Detected | # Not Detected | Success (%) |
|---------------|--------------------------------|-----------------|------------|----------------|-------------|
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5490.00 MHz     | 1          | 2              | 33          |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5491.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5492.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5493.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5494.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5495.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5500.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5505.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5510.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5515.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5520.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5525.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5526.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5527.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5528.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5529.00 MHz     | 10         | 0              | 100         |
| 5510.00 MHz   | FCC Short Pulse Radar (Type 0) | 5530.00 MHz     | 0          | 2              | 0           |

| <b>Table 9 - Detection Bandwidth Measurements (Bandwidth: +40MHz /-40MHz) 80 MHz</b> |                                |                 |            |                |             |
|--------------------------------------------------------------------------------------|--------------------------------|-----------------|------------|----------------|-------------|
| EUT Frequency                                                                        | Radar Type                     | Radar Frequency | # Detected | # Not Detected | Success (%) |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5489.00 MHz     | 0          | 2              | 0           |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5490.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5491.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5492.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5493.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5494.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5495.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5500.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5505.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5510.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5515.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5520.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5525.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5530.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5535.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5540.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5545.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5550.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5555.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5560.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5565.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5566.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5567.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5568.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5569.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5570.00 MHz     | 10         | 0              | 100         |
| 5530.00 MHz                                                                          | FCC Short Pulse Radar (Type 0) | 5571.00 MHz     | 0          | 2              | 0           |

**Table 10 - Summary of All Results 20 MHz**

| Waveform Name                        | Pd (%)  | Pd Required (%) | Number of Trials | Status |
|--------------------------------------|---------|-----------------|------------------|--------|
| FCC Short Pulse Radar (Type 1A)      | 100.0 % | 60.0 %          | 15               | PASSED |
| FCC Short Pulse Radar (Type 1B)      | 93.3 %  | 60.0 %          | 15               | PASSED |
| FCC Short Pulse Radar (Type 2)       | 70.0 %  | 60.0 %          | 30               | PASSED |
| FCC Short Pulse Radar (Type 3)       | 86.7 %  | 60.0 %          | 30               | PASSED |
| FCC Short Pulse Radar (Type 4)       | 80.0 %  | 60.0 %          | 30               | PASSED |
| Aggregate of above results           | 86.0 %  | 80.0 %          | 120              | PASSED |
| Long Sequence                        | 83.3 %  | 80.0 %          | 30               | PASSED |
| FCC frequency hopping radar (Type 6) | 97.4 %  | 70.0 %          | 38               | PASSED |

**Table 11 - FCC Short Pulse Radar (Type 1A) Results 20 MHz**

| Trial # | Pulses/Burst | Pulse Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|--------------|------------------|----------|----------|--------------------------|-------------------|
| 1       | 61           | 1.0              | 878.0    | Yes      | 5500.0MHz, -63.0dBm      | Single burst      |
| 2       | 57           | 1.0              | 938.0    | Yes      | 5507.0MHz, -63.0dBm      | Single burst      |
| 3       | 62           | 1.0              | 858.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 4       | 72           | 1.0              | 738.0    | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |
| 5       | 58           | 1.0              | 918.0    | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |
| 6       | 70           | 1.0              | 758.0    | Yes      | 5494.0MHz, -63.0dBm      | Single burst      |
| 7       | 18           | 1.0              | 3066.0   | Yes      | 5501.0MHz, -63.0dBm      | Single burst      |
| 8       | 74           | 1.0              | 718.0    | Yes      | 5508.0MHz, -63.0dBm      | Single burst      |
| 9       | 95           | 1.0              | 558.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 10      | 89           | 1.0              | 598.0    | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |
| 11      | 63           | 1.0              | 838.0    | Yes      | 5492.0MHz, -63.0dBm      | Single burst      |
| 12      | 59           | 1.0              | 898.0    | Yes      | 5501.0MHz, -63.0dBm      | Single burst      |
| 13      | 67           | 1.0              | 798.0    | Yes      | 5507.0MHz, -63.0dBm      | Single burst      |
| 14      | 76           | 1.0              | 698.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 15      | 99           | 1.0              | 538.0    | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |

**Table 12 - FCC Short Pulse Radar (Type 1B) Results 20 MHz**

| Trial # | Pulses/Burst | Pulse Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|--------------|------------------|----------|----------|--------------------------|-------------------|
| 1       | 32           | 1.0              | 1674.0   | Yes      | 5500.0MHz, -63.0dBm      | Single burst      |
| 2       | 98           | 1.0              | 539.0    | Yes      | 5505.0MHz, -63.0dBm      | Single burst      |
| 3       | 18           | 1.0              | 3057.0   | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 4       | 59           | 1.0              | 900.0    | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |
| 5       | 48           | 1.0              | 1105.0   | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 6       | 23           | 1.0              | 2349.0   | Yes      | 5500.0MHz, -63.0dBm      | Single burst      |
| 7       | 25           | 1.0              | 2191.0   | Yes      | 5506.0MHz, -63.0dBm      | Single burst      |
| 8       | 37           | 1.0              | 1435.0   | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 9       | 25           | 1.0              | 2161.0   | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |
| 10      | 26           | 1.0              | 2063.0   | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 11      | 37           | 1.0              | 1463.0   | Yes      | 5498.0MHz, -63.0dBm      | Single burst      |
| 12      | 57           | 1.0              | 931.0    | Yes      | 5506.0MHz, -63.0dBm      | Single burst      |
| 13      | 54           | 1.0              | 980.0    | No       | 5510.0MHz, -63.0dBm      | Single burst      |
| 14      | 21           | 1.0              | 2591.0   | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 15      | 29           | 1.0              | 1828.0   | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |

**Table 13 - FCC Short Pulse Radar (Type 2) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|------------------|---------------------|----------|----------|--------------------------|-------------------|
| 1       | 25               | 1.7                 | 200.0    | Yes      | 5500.0MHz, -63.0dBm      | Single burst      |
| 2       | 26               | 1.8                 | 194.0    | Yes      | 5506.0MHz, -63.0dBm      | Single burst      |
| 3       | 23               | 2.8                 | 204.0    | No       | 5510.0MHz, -63.0dBm      | Single burst      |
| 4       | 28               | 2.1                 | 166.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 5       | 28               | 4.1                 | 218.0    | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |
| 6       | 28               | 4.3                 | 163.0    | Yes      | 5494.0MHz, -63.0dBm      | Single burst      |
| 7       | 27               | 2.2                 | 206.0    | Yes      | 5499.0MHz, -63.0dBm      | Single burst      |
| 8       | 24               | 1.2                 | 216.0    | Yes      | 5506.0MHz, -63.0dBm      | Single burst      |
| 9       | 24               | 4.3                 | 163.0    | No       | 5510.0MHz, -63.0dBm      | Single burst      |
| 10      | 24               | 3.3                 | 227.0    | No       | 5510.0MHz, -63.0dBm      | Single burst      |
| 11      | 29               | 2.8                 | 173.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 12      | 25               | 1.9                 | 217.0    | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |
| 13      | 26               | 3.3                 | 217.0    | Yes      | 5493.0MHz, -63.0dBm      | Single burst      |
| 14      | 24               | 2.2                 | 169.0    | Yes      | 5501.0MHz, -63.0dBm      | Single burst      |
| 15      | 26               | 4.7                 | 152.0    | Yes      | 5507.0MHz, -63.0dBm      | Single burst      |
| 16      | 25               | 1.4                 | 221.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 17      | 23               | 2.7                 | 225.0    | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |
| 18      | 24               | 2.9                 | 188.0    | Yes      | 5494.0MHz, -63.0dBm      | Single burst      |
| 19      | 25               | 4.7                 | 162.0    | Yes      | 5500.0MHz, -63.0dBm      | Single burst      |
| 20      | 27               | 4.1                 | 208.0    | No       | 5506.0MHz, -63.0dBm      | Single burst      |
| 21      | 27               | 2.2                 | 186.0    | Yes      | 5506.0MHz, -63.0dBm      | Single burst      |
| 22      | 29               | 2.6                 | 184.0    | No       | 5510.0MHz, -63.0dBm      | Single burst      |
| 23      | 28               | 3.5                 | 181.0    | No       | 5510.0MHz, -63.0dBm      | Single burst      |
| 24      | 24               | 4.1                 | 229.0    | No       | 5510.0MHz, -63.0dBm      | Single burst      |
| 25      | 24               | 4.3                 | 210.0    | No       | 5510.0MHz, -63.0dBm      | Single burst      |
| 26      | 26               | 2.2                 | 225.0    | No       | 5510.0MHz, -63.0dBm      | Single burst      |
| 27      | 27               | 1.5                 | 179.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 28      | 25               | 2.0                 | 156.0    | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |
| 29      | 23               | 4.1                 | 151.0    | Yes      | 5490.0MHz, -63.0dBm      | Single burst      |
| 30      | 28               | 4.3                 | 189.0    | Yes      | 5494.0MHz, -63.0dBm      | Single burst      |

**Table 14 - FCC Short Pulse Radar (Type 3) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|------------------|---------------------|----------|----------|--------------------------|-------------------|
| 1       | 17               | 9.6                 | 303.0    | Yes      | 5500.0MHz, -63.0dBm      | Single burst      |
| 2       | 17               | 7.3                 | 406.0    | Yes      | 5507.0MHz, -63.0dBm      | Single burst      |
| 3       | 18               | 9.9                 | 471.0    | Yes      | 5509.3MHz, -63.0dBm      | Single burst      |
| 4       | 17               | 6.9                 | 301.0    | Yes      | 5490.7MHz, -63.0dBm      | Single burst      |
| 5       | 16               | 8.0                 | 476.0    | Yes      | 5492.0MHz, -63.0dBm      | Single burst      |
| 6       | 16               | 7.8                 | 313.0    | Yes      | 5502.0MHz, -63.0dBm      | Single burst      |
| 7       | 16               | 8.5                 | 338.0    | Yes      | 5509.3MHz, -63.0dBm      | Single burst      |
| 8       | 17               | 7.9                 | 313.0    | Yes      | 5490.7MHz, -63.0dBm      | Single burst      |
| 9       | 17               | 9.8                 | 462.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 10      | 17               | 6.9                 | 437.0    | Yes      | 5499.0MHz, -63.0dBm      | Single burst      |
| 11      | 17               | 8.4                 | 369.0    | Yes      | 5506.0MHz, -63.0dBm      | Single burst      |
| 12      | 17               | 6.2                 | 216.0    | Yes      | 5509.3MHz, -63.0dBm      | Single burst      |
| 13      | 16               | 6.9                 | 210.0    | Yes      | 5490.7MHz, -63.0dBm      | Single burst      |
| 14      | 18               | 6.7                 | 359.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 15      | 17               | 9.7                 | 393.0    | Yes      | 5499.0MHz, -63.0dBm      | Single burst      |
| 16      | 17               | 9.2                 | 300.0    | No       | 5508.0MHz, -63.0dBm      | Single burst      |
| 17      | 18               | 9.8                 | 477.0    | No       | 5508.0MHz, -63.0dBm      | Single burst      |
| 18      | 17               | 7.1                 | 380.0    | Yes      | 5508.0MHz, -63.0dBm      | Single burst      |
| 19      | 18               | 8.7                 | 316.0    | Yes      | 5509.3MHz, -63.0dBm      | Single burst      |
| 20      | 18               | 6.6                 | 328.0    | Yes      | 5490.7MHz, -63.0dBm      | Single burst      |
| 21      | 16               | 6.0                 | 274.0    | Yes      | 5494.0MHz, -63.0dBm      | Single burst      |
| 22      | 18               | 8.8                 | 450.0    | No       | 5503.0MHz, -63.0dBm      | Single burst      |
| 23      | 16               | 9.5                 | 432.0    | Yes      | 5503.0MHz, -63.0dBm      | Single burst      |
| 24      | 16               | 7.0                 | 476.0    | Yes      | 5509.3MHz, -63.0dBm      | Single burst      |
| 25      | 16               | 8.6                 | 409.0    | Yes      | 5490.7MHz, -63.0dBm      | Single burst      |
| 26      | 17               | 8.2                 | 274.0    | Yes      | 5493.0MHz, -63.0dBm      | Single burst      |
| 27      | 17               | 7.6                 | 443.0    | Yes      | 5500.0MHz, -63.0dBm      | Single burst      |
| 28      | 16               | 9.0                 | 237.0    | No       | 5507.0MHz, -63.0dBm      | Single burst      |
| 29      | 16               | 6.4                 | 404.0    | Yes      | 5507.0MHz, -63.0dBm      | Single burst      |
| 30      | 17               | 8.6                 | 465.0    | Yes      | 5509.3MHz, -63.0dBm      | Single burst      |

**Table 15 - FCC Short Pulse Radar (Type 4) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|------------------|---------------------|----------|----------|--------------------------|-------------------|
| 1       | 13               | 14.2                | 315.0    | Yes      | 5500.0MHz, -63.0dBm      | Single burst      |
| 2       | 15               | 18.1                | 461.0    | Yes      | 5507.0MHz, -63.0dBm      | Single burst      |
| 3       | 14               | 14.4                | 230.0    | No       | 5509.3MHz, -63.0dBm      | Single burst      |
| 4       | 15               | 14.1                | 477.0    | Yes      | 5509.3MHz, -63.0dBm      | Single burst      |
| 5       | 12               | 18.8                | 283.0    | Yes      | 5490.7MHz, -63.0dBm      | Single burst      |
| 6       | 14               | 19.3                | 493.0    | Yes      | 5494.0MHz, -63.0dBm      | Single burst      |
| 7       | 13               | 13.6                | 481.0    | Yes      | 5500.0MHz, -63.0dBm      | Single burst      |
| 8       | 13               | 13.2                | 334.0    | Yes      | 5508.0MHz, -63.0dBm      | Single burst      |
| 9       | 12               | 14.5                | 208.0    | No       | 5509.3MHz, -63.0dBm      | Single burst      |
| 10      | 14               | 15.4                | 467.0    | Yes      | 5509.3MHz, -63.0dBm      | Single burst      |
| 11      | 15               | 14.7                | 364.0    | Yes      | 5490.7MHz, -63.0dBm      | Single burst      |
| 12      | 13               | 14.0                | 271.0    | Yes      | 5494.0MHz, -63.0dBm      | Single burst      |
| 13      | 13               | 19.0                | 233.0    | No       | 5502.0MHz, -63.0dBm      | Single burst      |
| 14      | 13               | 19.2                | 214.0    | No       | 5502.0MHz, -63.0dBm      | Single burst      |
| 15      | 14               | 19.2                | 364.0    | Yes      | 5502.0MHz, -63.0dBm      | Single burst      |
| 16      | 15               | 12.7                | 289.0    | Yes      | 5509.0MHz, -63.0dBm      | Single burst      |
| 17      | 12               | 11.5                | 216.0    | No       | 5509.3MHz, -63.0dBm      | Single burst      |
| 18      | 15               | 18.7                | 458.0    | Yes      | 5509.3MHz, -63.0dBm      | Single burst      |
| 19      | 13               | 18.2                | 282.0    | Yes      | 5490.7MHz, -63.0dBm      | Single burst      |
| 20      | 15               | 12.3                | 437.0    | Yes      | 5492.0MHz, -63.0dBm      | Single burst      |
| 21      | 12               | 19.5                | 259.0    | Yes      | 5500.0MHz, -63.0dBm      | Single burst      |
| 22      | 16               | 11.6                | 373.0    | Yes      | 5509.0MHz, -63.0dBm      | Single burst      |
| 23      | 12               | 13.1                | 447.0    | Yes      | 5509.3MHz, -63.0dBm      | Single burst      |
| 24      | 15               | 17.0                | 374.0    | No       | 5490.7MHz, -63.0dBm      | Single burst      |
| 25      | 13               | 18.9                | 416.0    | Yes      | 5490.7MHz, -63.0dBm      | Single burst      |
| 26      | 14               | 17.7                | 282.0    | Yes      | 5493.0MHz, -63.0dBm      | Single burst      |
| 27      | 12               | 17.2                | 365.0    | Yes      | 5498.0MHz, -63.0dBm      | Single burst      |
| 28      | 14               | 12.3                | 350.0    | Yes      | 5506.0MHz, -63.0dBm      | Single burst      |
| 29      | 15               | 18.4                | 389.0    | Yes      | 5509.3MHz, -63.0dBm      | Single burst      |
| 30      | 15               | 12.3                | 492.0    | Yes      | 5490.7MHz, -63.0dBm      | Single burst      |

**Table 16 - Long Sequence Waveform Summary 20 MHz**

| Long Sequence Trial | Result       | Radar Frequency / Amplitude |
|---------------------|--------------|-----------------------------|
| Trial #1            | Detected     | 5500.0MHz, -63.0dBm         |
| Trial #2            | Detected     | 5507.4MHz, -63.0dBm         |
| Trial #3            | NOT Detected | 5492.6MHz, -63.0dBm         |
| Trial #4            | Detected     | 5492.6MHz, -63.0dBm         |
| Trial #5            | Detected     | 5495.0MHz, -63.0dBm         |
| Trial #6            | Detected     | 5504.0MHz, -63.0dBm         |
| Trial #7            | Detected     | 5507.4MHz, -63.0dBm         |
| Trial #8            | Detected     | 5492.6MHz, -63.0dBm         |
| Trial #9            | Detected     | 5500.0MHz, -63.0dBm         |
| Trial #10           | Detected     | 5507.4MHz, -63.0dBm         |
| Trial #11           | Detected     | 5492.6MHz, -63.0dBm         |
| Trial #12           | Detected     | 5494.0MHz, -63.0dBm         |
| Trial #13           | Detected     | 5501.0MHz, -63.0dBm         |
| Trial #14           | NOT Detected | 5507.0MHz, -63.0dBm         |
| Trial #15           | Detected     | 5507.0MHz, -63.0dBm         |
| Trial #16           | Detected     | 5507.4MHz, -63.0dBm         |
| Trial #17           | NOT Detected | 5492.6MHz, -63.0dBm         |
| Trial #18           | Detected     | 5492.6MHz, -63.0dBm         |
| Trial #19           | Detected     | 5494.0MHz, -63.0dBm         |
| Trial #20           | Detected     | 5501.0MHz, -63.0dBm         |
| Trial #21           | Detected     | 5507.4MHz, -63.0dBm         |
| Trial #22           | Detected     | 5492.6MHz, -63.0dBm         |
| Trial #23           | Detected     | 5500.0MHz, -63.0dBm         |
| Trial #24           | NOT Detected | 5507.4MHz, -63.0dBm         |
| Trial #25           | Detected     | 5507.4MHz, -63.0dBm         |
| Trial #26           | Detected     | 5492.6MHz, -63.0dBm         |
| Trial #27           | Detected     | 5493.0MHz, -63.0dBm         |
| Trial #28           | Detected     | 5500.0MHz, -63.0dBm         |
| Trial #29           | Detected     | 5507.0MHz, -63.0dBm         |
| Trial #30           | NOT Detected | 5507.4MHz, -63.0dBm         |

**Table 17 - Long Sequence Waveform Trial#1 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 94.1             | 11          | -                    | -                    | 0.652666       |
| 2       | 2        | 55.0             | 15          | 1734.0               | -                    | 1.576190       |
| 3       | 2        | 80.3             | 19          | 1261.0               | -                    | 3.165820       |
| 4       | 2        | 89.8             | 15          | 1939.0               | -                    | 4.167581       |
| 5       | 3        | 72.9             | 9           | 1499.0               | 1724.0               | 5.668369       |
| 6       | 2        | 66.5             | 7           | 1678.0               | -                    | 6.291986       |
| 7       | 2        | 90.8             | 14          | 1931.0               | -                    | 7.465312       |
| 8       | 2        | 74.6             | 5           | 1305.0               | -                    | 9.119452       |
| 9       | 2        | 77.4             | 6           | 1497.0               | -                    | 9.788271       |
| 10      | 3        | 59.0             | 6           | 1156.0               | 1613.0               | 11.054024      |

**Table 18 - Long Sequence Waveform Trial#2 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 82.2             | 10          | 1445.0               | 1687.0               | 0.120905       |
| 2       | 1        | 74.4             | 7           | -                    | -                    | 1.518410       |
| 3       | 1        | 87.3             | 19          | -                    | -                    | 2.483398       |
| 4       | 3        | 67.6             | 11          | 1632.0               | 1784.0               | 2.923786       |
| 5       | 3        | 75.7             | 9           | 1643.0               | 1585.0               | 3.962410       |
| 6       | 1        | 68.1             | 20          | -                    | -                    | 5.308033       |
| 7       | 1        | 91.0             | 13          | -                    | -                    | 6.405034       |
| 8       | 3        | 61.9             | 10          | 1920.0               | 1302.0               | 7.135593       |
| 9       | 2        | 72.1             | 17          | 1119.0               | -                    | 7.692481       |
| 10      | 2        | 82.0             | 8           | 1964.0               | -                    | 8.829178       |
| 11      | 2        | 72.5             | 13          | 1018.0               | -                    | 9.526110       |
| 12      | 1        | 99.0             | 17          | -                    | -                    | 10.697531      |
| 13      | 3        | 77.2             | 12          | 1203.0               | 1125.0               | 11.495376      |

**Table 19 - Long Sequence Waveform Trial#3 (NOT Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 68.2             | 8           | -                    | -                    | 0.771508       |
| 2       | 2        | 68.4             | 14          | 1218.0               | -                    | 1.812659       |
| 3       | 2        | 62.4             | 10          | 1334.0               | -                    | 3.262305       |
| 4       | 3        | 73.7             | 17          | 1088.0               | 1223.0               | 4.114666       |
| 5       | 2        | 90.3             | 14          | 1919.0               | -                    | 5.770054       |
| 6       | 2        | 64.5             | 15          | 1455.0               | -                    | 7.548222       |
| 7       | 2        | 85.6             | 14          | 1675.0               | -                    | 8.394211       |
| 8       | 2        | 95.9             | 12          | 1006.0               | -                    | 10.036596      |
| 9       | 1        | 83.1             | 18          | -                    | -                    | 11.737669      |

**Table 20 - Long Sequence Waveform Trial#4 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 74.9             | 11          | 1846.0               | -                    | 0.560381       |
| 2       | 2        | 76.9             | 20          | 1647.0               | -                    | 0.743140       |
| 3       | 1        | 77.8             | 16          | -                    | -                    | 1.573264       |
| 4       | 2        | 78.6             | 7           | 1531.0               | -                    | 2.210049       |
| 5       | 2        | 93.5             | 9           | 1398.0               | -                    | 2.868367       |
| 6       | 2        | 82.4             | 7           | 1884.0               | -                    | 3.598712       |
| 7       | 2        | 75.3             | 6           | 1259.0               | -                    | 4.406489       |
| 8       | 2        | 63.5             | 10          | 1492.0               | -                    | 5.214111       |
| 9       | 1        | 80.5             | 10          | -                    | -                    | 5.493149       |
| 10      | 2        | 65.9             | 16          | 1350.0               | -                    | 6.355266       |
| 11      | 2        | 55.9             | 12          | 1725.0               | -                    | 7.099200       |
| 12      | 1        | 86.2             | 19          | -                    | -                    | 7.580748       |
| 13      | 1        | 95.4             | 12          | -                    | -                    | 8.478058       |
| 14      | 1        | 57.6             | 13          | -                    | -                    | 8.870870       |
| 15      | 3        | 75.0             | 15          | 1489.0               | 1495.0               | 9.928359       |
| 16      | 1        | 76.6             | 11          | -                    | -                    | 10.270309      |
| 17      | 1        | 67.6             | 19          | -                    | -                    | 11.300049      |
| 18      | 1        | 97.1             | 13          | -                    | -                    | 11.431877      |

**Table 21 - Long Sequence Waveform Trial#5 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 65.2             | 10          | 1268.0               | 1729.0               | 0.513016       |
| 2       | 3        | 82.4             | 13          | 1235.0               | 1584.0               | 1.478955       |
| 3       | 2        | 61.6             | 12          | 1358.0               | -                    | 2.003135       |
| 4       | 1        | 55.2             | 7           | -                    | -                    | 2.486950       |
| 5       | 2        | 66.3             | 11          | 1609.0               | -                    | 3.847985       |
| 6       | 1        | 87.5             | 9           | -                    | -                    | 4.401377       |
| 7       | 2        | 53.6             | 6           | 1576.0               | -                    | 5.372094       |
| 8       | 1        | 80.1             | 17          | -                    | -                    | 6.230968       |
| 9       | 2        | 77.0             | 14          | 1882.0               | -                    | 6.524105       |
| 10      | 3        | 73.1             | 5           | 1534.0               | 1121.0               | 7.979666       |
| 11      | 3        | 73.8             | 19          | 1809.0               | 1394.0               | 8.469544       |
| 12      | 2        | 73.1             | 16          | 1744.0               | -                    | 9.302531       |
| 13      | 3        | 71.5             | 12          | 1571.0               | 1779.0               | 9.801233       |
| 14      | 2        | 68.9             | 8           | 1024.0               | -                    | 11.070438      |
| 15      | 2        | 50.2             | 6           | 1682.0               | -                    | 11.435148      |

**Table 22 - Long Sequence Waveform Trial#6 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 77.4             | 6           | 1409.0               | -                    | 0.264558       |
| 2       | 1        | 93.0             | 19          | -                    | -                    | 1.839927       |
| 3       | 2        | 66.6             | 19          | 1038.0               | -                    | 2.685779       |
| 4       | 1        | 62.2             | 6           | -                    | -                    | 3.362867       |
| 5       | 2        | 99.6             | 7           | 1676.0               | -                    | 4.764358       |
| 6       | 3        | 77.0             | 14          | 1646.0               | 1657.0               | 5.937611       |
| 7       | 1        | 83.0             | 17          | -                    | -                    | 6.331110       |
| 8       | 2        | 96.8             | 8           | 1796.0               | -                    | 7.712731       |
| 9       | 3        | 78.4             | 13          | 1418.0               | 1855.0               | 8.020636       |
| 10      | 2        | 99.6             | 19          | 1594.0               | -                    | 9.181534       |
| 11      | 1        | 54.5             | 15          | -                    | -                    | 10.355234      |
| 12      | 2        | 95.8             | 7           | 1920.0               | -                    | 11.557194      |

**Table 23 - Long Sequence Waveform Trial#7 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 81.6             | 12          | 1596.0               | -                    | 0.599632       |
| 2       | 2        | 53.6             | 20          | 1573.0               | -                    | 1.645122       |
| 3       | 2        | 94.5             | 20          | 1360.0               | -                    | 2.979233       |
| 4       | 3        | 62.5             | 16          | 1730.0               | 1824.0               | 3.844873       |
| 5       | 1        | 56.8             | 14          | -                    | -                    | 4.356920       |
| 6       | 2        | 84.3             | 6           | 1772.0               | -                    | 5.300812       |
| 7       | 2        | 72.1             | 10          | 1536.0               | -                    | 6.642155       |
| 8       | 3        | 78.6             | 5           | 1714.0               | 1370.0               | 7.482085       |
| 9       | 1        | 95.7             | 19          | -                    | -                    | 8.625006       |
| 10      | 2        | 86.4             | 9           | 1465.0               | -                    | 9.626720       |
| 11      | 2        | 82.5             | 18          | 1161.0               | -                    | 10.842841      |
| 12      | 1        | 84.7             | 7           | -                    | -                    | 11.034362      |

**Table 24 - Long Sequence Waveform Trial#8 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 88.5             | 15          | 1175.0               | 1671.0               | 0.564209       |
| 2       | 2        | 64.4             | 7           | 1035.0               | -                    | 0.781166       |
| 3       | 2        | 88.0             | 10          | 1445.0               | -                    | 1.500658       |
| 4       | 3        | 67.2             | 16          | 1128.0               | 1687.0               | 2.421505       |
| 5       | 2        | 74.2             | 9           | 1503.0               | -                    | 2.792151       |
| 6       | 3        | 74.0             | 15          | 1016.0               | 1004.0               | 3.533592       |
| 7       | 3        | 66.4             | 18          | 1423.0               | 1579.0               | 4.324706       |
| 8       | 1        | 77.2             | 9           | -                    | -                    | 4.439700       |
| 9       | 2        | 85.8             | 12          | 1154.0               | -                    | 5.507431       |
| 10      | 3        | 67.4             | 9           | 1099.0               | 1026.0               | 5.872790       |
| 11      | 2        | 59.7             | 5           | 1710.0               | -                    | 6.771263       |
| 12      | 1        | 61.7             | 6           | -                    | -                    | 7.081183       |
| 13      | 2        | 64.1             | 19          | 1368.0               | -                    | 7.815130       |
| 14      | 1        | 76.9             | 16          | -                    | -                    | 8.294291       |
| 15      | 1        | 78.0             | 8           | -                    | -                    | 9.090173       |
| 16      | 1        | 92.6             | 12          | -                    | -                    | 9.978803       |
| 17      | 1        | 59.5             | 11          | -                    | -                    | 10.711879      |
| 18      | 1        | 71.4             | 17          | -                    | -                    | 11.167793      |
| 19      | 2        | 61.0             | 8           | 1811.0               | -                    | 11.757381      |

**Table 25 - Long Sequence Waveform Trial#9 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 50.1             | 10          | 1373.0               | -                    | 0.461292       |
| 2       | 2        | 91.6             | 8           | 1962.0               | -                    | 1.663576       |
| 3       | 1        | 89.1             | 10          | -                    | -                    | 2.226939       |
| 4       | 3        | 99.7             | 16          | 1694.0               | 1034.0               | 3.413787       |
| 5       | 1        | 78.6             | 19          | -                    | -                    | 4.014588       |
| 6       | 2        | 98.9             | 11          | 1279.0               | -                    | 5.400101       |
| 7       | 2        | 61.2             | 17          | 1695.0               | -                    | 6.593311       |
| 8       | 2        | 66.2             | 12          | 1929.0               | -                    | 7.324539       |
| 9       | 1        | 54.5             | 7           | -                    | -                    | 8.278163       |
| 10      | 2        | 94.1             | 12          | 1331.0               | -                    | 9.960590       |
| 11      | 1        | 82.5             | 11          | -                    | -                    | 10.720288      |
| 12      | 2        | 87.4             | 16          | 1370.0               | -                    | 11.683546      |

**Table 26 - Long Sequence Waveform Trial#10 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 58.6             | 9           | -                    | -                    | 0.265598       |
| 2       | 2        | 91.4             | 12          | 1837.0               | -                    | 0.966710       |
| 3       | 2        | 78.5             | 13          | 1527.0               | -                    | 1.824428       |
| 4       | 3        | 76.1             | 19          | 1619.0               | 1400.0               | 2.630458       |
| 5       | 2        | 57.6             | 17          | 1107.0               | -                    | 3.228782       |
| 6       | 2        | 94.3             | 14          | 1257.0               | -                    | 3.985027       |
| 7       | 2        | 73.1             | 5           | 1888.0               | -                    | 4.487980       |
| 8       | 1        | 54.7             | 8           | -                    | -                    | 5.060923       |
| 9       | 2        | 80.5             | 16          | 1622.0               | -                    | 5.961566       |
| 10      | 2        | 56.5             | 7           | 1381.0               | -                    | 6.471335       |
| 11      | 2        | 84.7             | 18          | 1054.0               | -                    | 7.359543       |
| 12      | 2        | 80.6             | 11          | 1043.0               | -                    | 7.990302       |
| 13      | 2        | 64.8             | 15          | 1431.0               | -                    | 8.717907       |
| 14      | 2        | 83.5             | 8           | 1957.0               | -                    | 9.769831       |
| 15      | 2        | 88.5             | 17          | 1244.0               | -                    | 10.228936      |
| 16      | 3        | 53.4             | 6           | 1757.0               | 1219.0               | 11.058492      |
| 17      | 1        | 84.0             | 17          | -                    | -                    | 11.926735      |

**Table 27 - Long Sequence Waveform Trial#11 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 52.0             | 8           | -                    | -                    | 0.182596       |
| 2       | 2        | 81.2             | 12          | 1779.0               | -                    | 0.739451       |
| 3       | 2        | 94.5             | 11          | 1168.0               | -                    | 1.320551       |
| 4       | 3        | 52.4             | 18          | 1105.0               | 1921.0               | 2.425408       |
| 5       | 2        | 96.1             | 11          | 1553.0               | -                    | 2.823779       |
| 6       | 2        | 68.7             | 13          | 1802.0               | -                    | 3.294263       |
| 7       | 2        | 66.5             | 8           | 1348.0               | -                    | 3.891071       |
| 8       | 3        | 62.1             | 10          | 1352.0               | 1732.0               | 4.450485       |
| 9       | 2        | 53.0             | 18          | 1570.0               | -                    | 5.669049       |
| 10      | 2        | 75.8             | 13          | 1111.0               | -                    | 6.270294       |
| 11      | 2        | 90.3             | 7           | 1960.0               | -                    | 6.551388       |
| 12      | 1        | 76.1             | 11          | -                    | -                    | 7.377077       |
| 13      | 2        | 91.9             | 20          | 1504.0               | -                    | 7.966130       |
| 14      | 2        | 94.9             | 14          | 1761.0               | -                    | 8.451977       |
| 15      | 1        | 52.3             | 10          | -                    | -                    | 9.130815       |
| 16      | 2        | 63.5             | 7           | 1759.0               | -                    | 9.878895       |
| 17      | 2        | 98.8             | 14          | 1885.0               | -                    | 10.177621      |
| 18      | 3        | 72.1             | 20          | 1248.0               | 1710.0               | 11.128511      |
| 19      | 3        | 76.9             | 15          | 1932.0               | 1807.0               | 11.969619      |

**Table 28 - Long Sequence Waveform Trial#12 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 75.9             | 5           | 1807.0               | 1047.0               | 0.376020       |
| 2       | 2        | 73.8             | 9           | 1091.0               | -                    | 0.982118       |
| 3       | 1        | 50.1             | 14          | -                    | -                    | 1.901615       |
| 4       | 3        | 92.0             | 16          | 1199.0               | 1136.0               | 2.741224       |
| 5       | 3        | 79.6             | 9           | 1289.0               | 1509.0               | 3.259573       |
| 6       | 3        | 75.8             | 10          | 1673.0               | 1686.0               | 4.091758       |
| 7       | 2        | 76.5             | 9           | 1849.0               | -                    | 4.813840       |
| 8       | 2        | 88.9             | 16          | 1924.0               | -                    | 5.990580       |
| 9       | 1        | 74.2             | 7           | -                    | -                    | 6.620915       |
| 10      | 2        | 85.9             | 17          | 1149.0               | -                    | 7.210335       |
| 11      | 1        | 83.1             | 16          | -                    | -                    | 7.956037       |
| 12      | 1        | 99.3             | 18          | -                    | -                    | 8.494120       |
| 13      | 1        | 76.6             | 12          | -                    | -                    | 9.513455       |
| 14      | 2        | 82.9             | 14          | 1020.0               | -                    | 10.094097      |
| 15      | 2        | 76.5             | 16          | 1438.0               | -                    | 10.600031      |
| 16      | 1        | 52.7             | 18          | -                    | -                    | 11.908385      |

**Table 29 - Long Sequence Waveform Trial#13 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 85.2             | 13          | 1412.0               | 1868.0               | 0.485841       |
| 2       | 1        | 86.7             | 7           | -                    | -                    | 1.321828       |
| 3       | 1        | 72.4             | 15          | -                    | -                    | 2.122585       |
| 4       | 2        | 95.0             | 11          | 1446.0               | -                    | 3.305709       |
| 5       | 2        | 92.8             | 7           | 1830.0               | -                    | 3.924046       |
| 6       | 2        | 67.3             | 17          | 1587.0               | -                    | 5.304980       |
| 7       | 2        | 91.5             | 5           | 1262.0               | -                    | 6.443718       |
| 8       | 1        | 63.4             | 8           | -                    | -                    | 7.181897       |
| 9       | 2        | 66.3             | 11          | 1491.0               | -                    | 7.469218       |
| 10      | 2        | 93.7             | 15          | 1266.0               | -                    | 8.311836       |
| 11      | 2        | 96.9             | 13          | 1136.0               | -                    | 10.058561      |
| 12      | 3        | 64.7             | 6           | 1858.0               | 1301.0               | 10.475667      |
| 13      | 3        | 96.3             | 9           | 1585.0               | 1791.0               | 11.650143      |

**Table 30 - Long Sequence Waveform Trial#14 (NOT Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 52.2             | 10          | -                    | -                    | 0.611716       |
| 2       | 1        | 59.2             | 7           | -                    | -                    | 1.656817       |
| 3       | 2        | 92.6             | 11          | 1306.0               | -                    | 3.061380       |
| 4       | 1        | 58.7             | 9           | -                    | -                    | 3.982556       |
| 5       | 2        | 50.6             | 7           | 1103.0               | -                    | 4.845115       |
| 6       | 1        | 68.6             | 9           | -                    | -                    | 6.136914       |
| 7       | 2        | 56.9             | 18          | 1446.0               | -                    | 7.312159       |
| 8       | 2        | 87.6             | 15          | 1840.0               | -                    | 9.186986       |
| 9       | 2        | 82.8             | 14          | 1075.0               | -                    | 10.002422      |
| 10      | 2        | 92.5             | 13          | 1540.0               | -                    | 11.105145      |

**Table 31 - Long Sequence Waveform Trial#15 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 83.5             | 5           | 1252.0               | -                    | 0.047752       |
| 2       | 1        | 56.4             | 11          | -                    | -                    | 1.029498       |
| 3       | 2        | 85.4             | 15          | 1928.0               | -                    | 1.851688       |
| 4       | 1        | 85.8             | 15          | -                    | -                    | 2.375069       |
| 5       | 3        | 86.0             | 20          | 1882.0               | 1323.0               | 3.040089       |
| 6       | 2        | 79.3             | 15          | 1131.0               | -                    | 3.919705       |
| 7       | 3        | 76.7             | 11          | 1030.0               | 1020.0               | 4.403470       |
| 8       | 3        | 62.4             | 16          | 1628.0               | 1792.0               | 5.172892       |
| 9       | 2        | 73.2             | 7           | 1884.0               | -                    | 5.355417       |
| 10      | 2        | 50.3             | 7           | 1848.0               | -                    | 6.091927       |
| 11      | 1        | 99.1             | 8           | -                    | -                    | 6.806150       |
| 12      | 2        | 58.4             | 17          | 1684.0               | -                    | 7.953086       |
| 13      | 2        | 80.6             | 18          | 1765.0               | -                    | 8.400595       |
| 14      | 1        | 69.7             | 14          | -                    | -                    | 9.106069       |
| 15      | 3        | 76.1             | 9           | 1123.0               | 1425.0               | 9.564216       |
| 16      | 1        | 72.0             | 11          | -                    | -                    | 10.177175      |
| 17      | 2        | 83.9             | 12          | 1148.0               | -                    | 11.167373      |
| 18      | 1        | 93.3             | 13          | -                    | -                    | 11.619792      |

**Table 32 - Long Sequence Waveform Trial#16 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 55.4             | 16          | 1025.0               | 1113.0               | 0.571867       |
| 2       | 1        | 99.9             | 16          | -                    | -                    | 1.406471       |
| 3       | 3        | 76.8             | 9           | 1586.0               | 1269.0               | 3.540946       |
| 4       | 2        | 91.0             | 11          | 1213.0               | -                    | 4.708577       |
| 5       | 2        | 62.2             | 11          | 1609.0               | -                    | 5.418744       |
| 6       | 3        | 63.2             | 6           | 1774.0               | 1722.0               | 6.926537       |
| 7       | 2        | 95.2             | 18          | 1804.0               | -                    | 7.510932       |
| 8       | 3        | 81.9             | 13          | 1060.0               | 1273.0               | 9.522347       |
| 9       | 3        | 92.6             | 17          | 1214.0               | 1239.0               | 10.594048      |
| 10      | 1        | 93.8             | 19          | -                    | -                    | 10.985154      |

**Table 33 - Long Sequence Waveform Trial#17 (NOT Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 61.9             | 5           | 1685.0               | -                    | 0.633516       |
| 2       | 1        | 76.3             | 17          | -                    | -                    | 1.415701       |
| 3       | 2        | 64.8             | 6           | 1720.0               | -                    | 1.599048       |
| 4       | 1        | 74.1             | 14          | -                    | -                    | 2.630881       |
| 5       | 2        | 97.2             | 16          | 1045.0               | -                    | 3.264729       |
| 6       | 2        | 59.5             | 20          | 1707.0               | -                    | 4.152906       |
| 7       | 1        | 75.4             | 6           | -                    | -                    | 5.242049       |
| 8       | 3        | 58.5             | 16          | 1639.0               | 1220.0               | 5.722246       |
| 9       | 2        | 68.7             | 17          | 1221.0               | -                    | 6.739047       |
| 10      | 3        | 75.8             | 10          | 1537.0               | 1664.0               | 7.261949       |
| 11      | 1        | 91.0             | 15          | -                    | -                    | 8.152143       |
| 12      | 1        | 86.3             | 12          | -                    | -                    | 8.377776       |
| 13      | 3        | 95.2             | 13          | 1487.0               | 1496.0               | 9.476375       |
| 14      | 3        | 90.2             | 16          | 1743.0               | 1019.0               | 10.469206      |
| 15      | 3        | 65.2             | 9           | 1519.0               | 1027.0               | 10.869343      |
| 16      | 2        | 99.0             | 20          | 1094.0               | -                    | 11.451297      |

**Table 34 - Long Sequence Waveform Trial#18 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 54.4             | 13          | -                    | -                    | 0.849866       |
| 2       | 3        | 56.8             | 8           | 1628.0               | 1033.0               | 1.113849       |
| 3       | 2        | 88.9             | 16          | 1567.0               | -                    | 2.616539       |
| 4       | 1        | 61.6             | 8           | -                    | -                    | 3.517961       |
| 5       | 2        | 51.3             | 9           | 1372.0               | -                    | 4.779149       |
| 6       | 1        | 77.8             | 17          | -                    | -                    | 5.712575       |
| 7       | 3        | 94.5             | 11          | 1781.0               | 1464.0               | 6.698792       |
| 8       | 2        | 98.6             | 18          | 1098.0               | -                    | 7.184746       |
| 9       | 3        | 84.1             | 16          | 1318.0               | 1184.0               | 8.646393       |
| 10      | 2        | 93.7             | 12          | 1963.0               | -                    | 9.798904       |
| 11      | 2        | 91.2             | 17          | 1909.0               | -                    | 10.007908      |
| 12      | 3        | 74.8             | 13          | 1859.0               | 1988.0               | 11.691002      |

**Table 35 - Long Sequence Waveform Trial#19 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 99.5             | 12          | 1449.0               | -                    | 0.486848       |
| 2       | 2        | 86.9             | 12          | 1949.0               | -                    | 1.134818       |
| 3       | 3        | 78.0             | 6           | 1847.0               | 1743.0               | 1.476749       |
| 4       | 2        | 59.1             | 14          | 1251.0               | -                    | 2.516127       |
| 5       | 3        | 78.0             | 13          | 1697.0               | 1949.0               | 2.878055       |
| 6       | 2        | 65.0             | 15          | 1191.0               | -                    | 3.743485       |
| 7       | 2        | 76.0             | 14          | 1876.0               | -                    | 4.380419       |
| 8       | 1        | 67.1             | 17          | -                    | -                    | 5.111868       |
| 9       | 2        | 82.5             | 7           | 1815.0               | -                    | 5.816172       |
| 10      | 2        | 64.9             | 16          | 1562.0               | -                    | 6.027726       |
| 11      | 2        | 65.1             | 12          | 1759.0               | -                    | 7.331257       |
| 12      | 2        | 83.5             | 10          | 1371.0               | -                    | 7.572358       |
| 13      | 1        | 51.0             | 10          | -                    | -                    | 8.268249       |
| 14      | 2        | 69.4             | 14          | 1409.0               | -                    | 8.707267       |
| 15      | 3        | 71.6             | 10          | 1781.0               | 1426.0               | 9.336217       |
| 16      | 2        | 85.3             | 12          | 1923.0               | -                    | 10.030188      |
| 17      | 2        | 91.0             | 20          | 1189.0               | -                    | 11.303316      |
| 18      | 1        | 69.6             | 16          | -                    | -                    | 11.530151      |

**Table 36 - Long Sequence Waveform Trial#20 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 55.7             | 5           | 1738.0               | -                    | 0.255470       |
| 2       | 2        | 91.9             | 11          | 1353.0               | -                    | 0.742544       |
| 3       | 1        | 89.5             | 9           | -                    | -                    | 1.533998       |
| 4       | 2        | 53.9             | 11          | 1792.0               | -                    | 2.203067       |
| 5       | 3        | 71.0             | 8           | 1695.0               | 1862.0               | 3.322072       |
| 6       | 3        | 50.4             | 16          | 1842.0               | 1619.0               | 3.979807       |
| 7       | 1        | 70.1             | 9           | -                    | -                    | 4.511116       |
| 8       | 1        | 51.5             | 7           | -                    | -                    | 4.802049       |
| 9       | 2        | 83.2             | 11          | 1519.0               | -                    | 5.531375       |
| 10      | 2        | 99.5             | 19          | 1338.0               | -                    | 6.565195       |
| 11      | 2        | 86.5             | 18          | 1242.0               | -                    | 7.106640       |
| 12      | 2        | 51.2             | 5           | 1763.0               | -                    | 7.924095       |
| 13      | 1        | 90.9             | 7           | -                    | -                    | 8.458913       |
| 14      | 1        | 53.4             | 14          | -                    | -                    | 8.752896       |
| 15      | 2        | 94.8             | 18          | 1704.0               | -                    | 9.732876       |
| 16      | 3        | 84.5             | 17          | 1568.0               | 1005.0               | 10.614610      |
| 17      | 1        | 53.1             | 8           | -                    | -                    | 10.703248      |
| 18      | 1        | 75.4             | 5           | -                    | -                    | 11.381158      |

**Table 37 - Long Sequence Waveform Trial#21 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 91.9             | 13          | 1051.0               | -                    | 0.194863       |
| 2       | 3        | 69.2             | 13          | 1668.0               | 1149.0               | 1.308644       |
| 3       | 2        | 76.3             | 12          | 1197.0               | -                    | 2.072748       |
| 4       | 3        | 63.1             | 5           | 1584.0               | 1331.0               | 2.353058       |
| 5       | 2        | 53.1             | 11          | 1785.0               | -                    | 3.153086       |
| 6       | 2        | 82.9             | 15          | 1241.0               | -                    | 3.564976       |
| 7       | 1        | 87.1             | 12          | -                    | -                    | 4.926467       |
| 8       | 3        | 80.8             | 10          | 1595.0               | 1219.0               | 5.336348       |
| 9       | 2        | 82.8             | 5           | 1409.0               | -                    | 5.806800       |
| 10      | 2        | 84.1             | 19          | 1213.0               | -                    | 6.383819       |
| 11      | 1        | 55.9             | 17          | -                    | -                    | 7.404846       |
| 12      | 1        | 98.9             | 6           | -                    | -                    | 8.059911       |
| 13      | 2        | 55.6             | 20          | 1322.0               | -                    | 8.597265       |
| 14      | 1        | 70.3             | 18          | -                    | -                    | 9.399269       |
| 15      | 2        | 80.6             | 11          | 1576.0               | -                    | 10.433898      |
| 16      | 2        | 97.5             | 16          | 1259.0               | -                    | 11.240629      |
| 17      | 3        | 87.1             | 6           | 1557.0               | 1645.0               | 11.422772      |

**Table 38 - Long Sequence Waveform Trial#22 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 93.0             | 12          | 1435.0               | 1421.0               | 0.649942       |
| 2       | 2        | 67.7             | 13          | 1622.0               | -                    | 1.269924       |
| 3       | 3        | 57.6             | 15          | 1188.0               | 1038.0               | 1.453334       |
| 4       | 1        | 53.8             | 7           | -                    | -                    | 2.242383       |
| 5       | 2        | 81.4             | 13          | 1549.0               | -                    | 2.817745       |
| 6       | 1        | 96.1             | 13          | -                    | -                    | 3.573317       |
| 7       | 1        | 88.0             | 20          | -                    | -                    | 4.048615       |
| 8       | 2        | 52.9             | 13          | 1296.0               | -                    | 4.988510       |
| 9       | 3        | 64.6             | 6           | 1916.0               | 1702.0               | 5.634376       |
| 10      | 3        | 65.3             | 19          | 1602.0               | 1889.0               | 6.286961       |
| 11      | 2        | 74.3             | 8           | 1162.0               | -                    | 6.999730       |
| 12      | 2        | 83.9             | 6           | 1323.0               | -                    | 7.940801       |
| 13      | 2        | 96.7             | 18          | 1935.0               | -                    | 8.054468       |
| 14      | 2        | 99.3             | 14          | 1532.0               | -                    | 8.912898       |
| 15      | 2        | 99.8             | 12          | 1699.0               | -                    | 9.579674       |
| 16      | 1        | 65.0             | 9           | -                    | -                    | 10.555025      |
| 17      | 2        | 76.6             | 19          | 1036.0               | -                    | 10.761157      |
| 18      | 2        | 86.5             | 10          | 1990.0               | -                    | 11.979778      |

**Table 39 - Long Sequence Waveform Trial#23 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 79.4             | 10          | 1340.0               | -                    | 0.980989       |
| 2       | 3        | 54.4             | 9           | 1390.0               | 1005.0               | 1.986200       |
| 3       | 1        | 81.0             | 11          | -                    | -                    | 3.083601       |
| 4       | 3        | 77.3             | 10          | 1829.0               | 1843.0               | 5.632455       |
| 5       | 3        | 72.7             | 6           | 1856.0               | 1913.0               | 7.216249       |
| 6       | 2        | 80.7             | 8           | 1505.0               | -                    | 8.252043       |
| 7       | 3        | 55.4             | 19          | 1756.0               | 1023.0               | 9.074567       |
| 8       | 2        | 78.3             | 11          | 1432.0               | -                    | 11.611331      |

**Table 40 - Long Sequence Waveform Trial#24 (NOT Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 94.5             | 19          | 1776.0               | -                    | 1.061509       |
| 2       | 3        | 99.0             | 16          | 1086.0               | 1537.0               | 1.582451       |
| 3       | 1        | 93.7             | 14          | -                    | -                    | 2.504379       |
| 4       | 2        | 89.4             | 7           | 1405.0               | -                    | 3.643769       |
| 5       | 3        | 90.2             | 18          | 1318.0               | 1314.0               | 4.456675       |
| 6       | 2        | 67.4             | 6           | 1025.0               | -                    | 5.682524       |
| 7       | 2        | 52.7             | 15          | 1075.0               | -                    | 7.612471       |
| 8       | 2        | 60.7             | 12          | 1381.0               | -                    | 8.246056       |
| 9       | 2        | 50.2             | 11          | 1342.0               | -                    | 9.514083       |
| 10      | 2        | 85.0             | 9           | 1134.0               | -                    | 10.868713      |
| 11      | 1        | 72.4             | 11          | -                    | -                    | 11.450319      |

**Table 41 - Long Sequence Waveform Trial#25 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 85.9             | 16          | -                    | -                    | 0.691525       |
| 2       | 2        | 52.3             | 17          | 1737.0               | -                    | 0.989370       |
| 3       | 2        | 85.7             | 15          | 1688.0               | -                    | 2.099503       |
| 4       | 2        | 96.2             | 16          | 1330.0               | -                    | 2.808481       |
| 5       | 1        | 64.1             | 11          | -                    | -                    | 3.507031       |
| 6       | 1        | 51.2             | 20          | -                    | -                    | 4.194281       |
| 7       | 2        | 87.7             | 5           | 1628.0               | -                    | 4.286539       |
| 8       | 3        | 71.5             | 20          | 1654.0               | 1481.0               | 5.063518       |
| 9       | 2        | 63.0             | 11          | 1073.0               | -                    | 6.257280       |
| 10      | 1        | 91.2             | 9           | -                    | -                    | 6.438904       |
| 11      | 1        | 99.1             | 16          | -                    | -                    | 7.390123       |
| 12      | 1        | 79.7             | 14          | -                    | -                    | 7.948162       |
| 13      | 3        | 79.6             | 7           | 1930.0               | 1607.0               | 8.552256       |
| 14      | 2        | 55.5             | 15          | 1435.0               | -                    | 9.415047       |
| 15      | 2        | 53.2             | 13          | 1119.0               | -                    | 10.327012      |
| 16      | 2        | 67.7             | 6           | 1122.0               | -                    | 10.883263      |
| 17      | 1        | 89.4             | 13          | -                    | -                    | 11.413114      |

**Table 42 - Long Sequence Waveform Trial#26 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 68.0             | 12          | 1425.0               | 1201.0               | 0.672001       |
| 2       | 2        | 50.7             | 18          | 1671.0               | -                    | 1.323132       |
| 3       | 3        | 89.3             | 6           | 1766.0               | 1001.0               | 2.311996       |
| 4       | 3        | 71.3             | 18          | 1557.0               | 1277.0               | 3.025889       |
| 5       | 2        | 72.1             | 9           | 1504.0               | -                    | 4.092588       |
| 6       | 2        | 73.0             | 12          | 1231.0               | -                    | 4.602550       |
| 7       | 1        | 95.2             | 20          | -                    | -                    | 5.474858       |
| 8       | 2        | 53.6             | 14          | 1885.0               | -                    | 6.843873       |
| 9       | 2        | 59.6             | 10          | 1409.0               | -                    | 7.451591       |
| 10      | 2        | 79.9             | 20          | 1812.0               | -                    | 8.384250       |
| 11      | 2        | 70.2             | 14          | 1107.0               | -                    | 9.168613       |
| 12      | 1        | 91.8             | 12          | -                    | -                    | 10.043082      |
| 13      | 3        | 78.9             | 5           | 1071.0               | 1129.0               | 10.840914      |
| 14      | 1        | 74.3             | 13          | -                    | -                    | 11.542860      |

**Table 43 - Long Sequence Waveform Trial#27 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 73.2             | 12          | -                    | -                    | 0.891333       |
| 2       | 1        | 51.8             | 13          | -                    | -                    | 1.505770       |
| 3       | 1        | 72.7             | 8           | -                    | -                    | 1.847302       |
| 4       | 2        | 88.6             | 10          | 1867.0               | -                    | 3.635093       |
| 5       | 3        | 50.7             | 16          | 1816.0               | 1486.0               | 4.204786       |
| 6       | 3        | 52.0             | 10          | 1382.0               | 1434.0               | 5.089741       |
| 7       | 3        | 92.3             | 14          | 1317.0               | 1154.0               | 6.101907       |
| 8       | 3        | 51.1             | 10          | 1452.0               | 1980.0               | 7.351726       |
| 9       | 2        | 97.9             | 7           | 1455.0               | -                    | 7.591831       |
| 10      | 2        | 50.0             | 8           | 1621.0               | -                    | 8.636775       |
| 11      | 3        | 92.6             | 12          | 1794.0               | 1102.0               | 9.809218       |
| 12      | 2        | 99.7             | 18          | 1332.0               | -                    | 10.436214      |
| 13      | 2        | 81.3             | 19          | 1330.0               | -                    | 11.687315      |

**Table 44 - Long Sequence Waveform Trial#28 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 57.7             | 11          | -                    | -                    | 0.137343       |
| 2       | 2        | 60.7             | 5           | 1494.0               | -                    | 0.920188       |
| 3       | 1        | 77.4             | 15          | -                    | -                    | 1.313332       |
| 4       | 2        | 97.4             | 12          | 1138.0               | -                    | 2.095020       |
| 5       | 3        | 57.0             | 10          | 1999.0               | 1973.0               | 2.964450       |
| 6       | 1        | 71.6             | 18          | -                    | -                    | 3.392495       |
| 7       | 2        | 58.4             | 19          | 1050.0               | -                    | 3.624002       |
| 8       | 3        | 90.4             | 8           | 1139.0               | 1907.0               | 4.563484       |
| 9       | 1        | 99.8             | 14          | -                    | -                    | 5.163126       |
| 10      | 1        | 55.0             | 18          | -                    | -                    | 5.567570       |
| 11      | 2        | 56.2             | 8           | 1415.0               | -                    | 6.465357       |
| 12      | 3        | 51.2             | 11          | 1687.0               | 1296.0               | 6.757148       |
| 13      | 1        | 50.6             | 19          | -                    | -                    | 7.440160       |
| 14      | 2        | 94.6             | 15          | 1996.0               | -                    | 7.872425       |
| 15      | 3        | 85.6             | 7           | 1483.0               | 1948.0               | 8.963520       |
| 16      | 2        | 67.1             | 13          | 1463.0               | -                    | 9.576403       |
| 17      | 3        | 97.1             | 19          | 1281.0               | 1706.0               | 9.653578       |
| 18      | 3        | 69.8             | 18          | 1054.0               | 1829.0               | 10.618274      |
| 19      | 1        | 82.8             | 13          | -                    | -                    | 10.868175      |
| 20      | 1        | 88.5             | 12          | -                    | -                    | 11.754147      |

**Table 45 - Long Sequence Waveform Trial#29 (Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 98.3             | 17          | 1015.0               | -                    | 0.844371       |
| 2       | 1        | 65.4             | 18          | -                    | -                    | 2.251528       |
| 3       | 3        | 95.2             | 9           | 1378.0               | 1977.0               | 4.467850       |
| 4       | 3        | 96.2             | 14          | 1256.0               | 1033.0               | 5.313582       |
| 5       | 2        | 70.6             | 15          | 1372.0               | -                    | 6.295860       |
| 6       | 2        | 84.4             | 12          | 1807.0               | -                    | 8.691539       |
| 7       | 3        | 84.7             | 15          | 1597.0               | 1082.0               | 9.127340       |
| 8       | 2        | 58.9             | 7           | 1948.0               | -                    | 11.844340      |

**Table 46 - Long Sequence Waveform Trial#30 (NOT Detected) 20 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 87.3             | 11          | 1877.0               | -                    | 0.134470       |
| 2       | 1        | 66.0             | 18          | -                    | -                    | 0.687756       |
| 3       | 1        | 98.3             | 13          | -                    | -                    | 1.964916       |
| 4       | 1        | 82.0             | 9           | -                    | -                    | 2.299860       |
| 5       | 1        | 62.0             | 17          | -                    | -                    | 2.735537       |
| 6       | 2        | 83.8             | 16          | 1768.0               | -                    | 3.893023       |
| 7       | 3        | 70.3             | 13          | 1836.0               | 1379.0               | 4.118458       |
| 8       | 2        | 70.4             | 8           | 1397.0               | -                    | 4.772665       |
| 9       | 1        | 86.5             | 16          | -                    | -                    | 5.960644       |
| 10      | 1        | 66.9             | 6           | -                    | -                    | 6.534060       |
| 11      | 2        | 94.1             | 11          | 1098.0               | -                    | 6.693307       |
| 12      | 3        | 99.0             | 13          | 1404.0               | 1948.0               | 7.677112       |
| 13      | 1        | 84.4             | 20          | -                    | -                    | 8.212919       |
| 14      | 1        | 84.8             | 17          | -                    | -                    | 8.886049       |
| 15      | 1        | 88.9             | 5           | -                    | -                    | 9.543576       |
| 16      | 3        | 70.9             | 7           | 1368.0               | 1690.0               | 10.123570      |
| 17      | 3        | 78.7             | 17          | 1820.0               | 1824.0               | 10.911875      |
| 18      | 1        | 57.2             | 13          | -                    | -                    | 11.585167      |

| Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1                                                              | 9                | 1.0                 | 333.0    | Yes      | 5508.7MHz,<br>-63.0dBm      | Hop sequence: 5422, 5342, 5412, 5343, 5504, 5479, 5625, 5702, 5723, 5627, 5304, 5691, 5318, 5287, 5508, 5283, 5332, 5258, 5507, 5307, 5407, 5713, 5680, 5502, 5521, 5270, 5648, 5365, 5559, 5701, 5384, 5489, 5611, 5425, 5426, 5682, 5291, 5603, 5485, 5409, 5615, 5616, 5434, 5549, 5274, 5683, 5677, 5522, 5256, 5628, 5545, 5402, 5268, 5313, 5469, 5272, 5550, 5651, 5556, 5448, 5341, 5617, 5529, 5503, 5608, 5358, 5594, 5481, 5463, 5437, 5444, 5613, 5461, 5436, 5325, 5678, 5614, 5442, 5345, 5385, 5427, 5536, 5535, 5581, 5369, 5663, 5371, 5538, 5560, 5253, 5462, 5720, 5517, 5334, 5693, 5290, 5500, 5709, 5527, 5674 (6 hits) (09/09/2015 02:08:34 PM) |
| 2                                                              | 9                | 1.0                 | 333.0    | Yes      | 5509.7MHz,<br>-63.0dBm      | Hop sequence: 5723, 5588, 5699, 5648, 5528, 5708, 5403, 5543, 5316, 5408, 5273, 5398, 5473, 5393, 5687, 5513, 5672, 5405, 5339, 5491, 5320, 5373, 5598, 5583, 5705, 5562, 5564, 5505, 5432, 5274, 5502, 5692, 5290, 5499, 5466, 5397, 5632, 5605, 5284, 5560, 5421, 5532, 5401, 5281, 5555, 5272, 5700, 5572, 5673, 5701, 5364, 5425, 5691, 5314, 5310, 5539, 5261, 5367, 5459, 5622, 5669, 5621, 5631, 5305, 5463, 5636, 5439, 5566, 5299, 5350, 5312, 5460, 5642, 5313, 5668, 5550, 5592, 5279, 5667, 5722, 5671, 5452, 5626, 5511, 5433, 5341, 5380, 5477, 5384, 5677, 5329, 5449, 5609, 5551, 5486, 5271, 5682, 5355, 5392, 5396 (4 hits) (09/09/2015 02:08:47 PM) |
| 3                                                              | 9                | 1.0                 | 333.0    | Yes      | 5490.7MHz,<br>-63.0dBm      | Hop sequence: 5287, 5664, 5252, 5515, 5621, 5645, 5559, 5619, 5508, 5724, 5585, 5527, 5502, 5622, 5580, 5584, 5305, 5592, 5711, 5460, 5709, 5528, 5698, 5285, 5472, 5409, 5374, 5628, 5702, 5256, 5544, 5557, 5329, 5251, 5278, 5316, 5617, 5324, 5267, 5484, 5419, 5449, 5603, 5434, 5470, 5368, 5372, 5511, 5626, 5346, 5416, 5475, 5452, 5361, 5650, 5521, 5672, 5393, 5562, 5364, 5606, 5406, 5648, 5665, 5400, 5353, 5684, 5254, 5685, 5432, 5700, 5436, 5255, 5390, 5338, 5455, 5358, 5518, 5448, 5609, 5689, 5629, 5288, 5378, 5300, 5537, 5576, 5591, 5490, 5261, 5334, 5656, 5704, 5479, 5365, 5578, 5587, 5494, 5543, 5549 (3 hits) (09/09/2015 02:09:01 PM) |
| 4                                                              | 9                | 1.0                 | 333.0    | Yes      | 5491.7MHz,<br>-63.0dBm      | Hop sequence: 5296, 5600, 5632, 5480, 5271, 5568, 5458, 5508, 5283,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5251, 5663, 5495, 5566, 5297, 5321, 5290, 5318, 5578, 5720, 5538, 5597, 5619, 5319, 5416, 5370, 5642, 5696, 5652, 5379, 5343, 5307, 5339, 5709, 5434, 5406, 5530, 5636, 5431, 5562, 5392, 5573, 5287, 5547, 5645, 5623, 5640, 5560, 5263, 5608, 5265, 5676, 5565, 5342, 5602, 5563, 5462, 5388, 5486, 5435, 5516, 5498, 5281, 5413, 5295, 5603, 5606, 5549, 5658, 5345, 5292, 5314, 5664, 5511, 5373, 5604, 5596, 5329, 5273, 5477, 5527, 5445, 5515, 5691, 5497, 5607, 5556, 5348, 5654, 5478, 5398, 5681, 5422, 5349, 5482, 5353, 5472, 5347, 5569, 5429, 5521 (4 hits) (09/09/2015 02:09:14 PM)                                                                     |
| 5       | 9                | 1.0                 | 333.0    | Yes      | 5492.7MHz,<br>-63.0dBm      | Hop sequence: 5346, 5394, 5418, 5517, 5424, 5476, 5467, 5347, 5624, 5543, 5674, 5535, 5616, 5665, 5312, 5576, 5468, 5367, 5556, 5280, 5564, 5276, 5726, 5388, 5413, 5445, 5692, 5557, 5462, 5623, 5256, 5369, 5477, 5509, 5472, 5379, 5430, 5602, 5519, 5294, 5644, 5372, 5626, 5308, 5492, 5405, 5520, 5694, 5661, 5380, 5678, 5337, 5412, 5595, 5288, 5363, 5577, 5400, 5562, 5512, 5275, 5516, 5397, 5563, 5483, 5316, 5525, 5683, 5479, 5712, 5684, 5441, 5415, 5527, 5264, 5700, 5319, 5279, 5403, 5474, 5579, 5625, 5299, 5267, 5646, 5639, 5484, 5607, 5574, 5304, 5605, 5593, 5390, 5524, 5281, 5536, 5497, 5359, 5643, 5686 (3 hits) (09/09/2015 02:09:27 PM) |
| 6       | 9                | 1.0                 | 333.0    | Yes      | 5493.7MHz,<br>-63.0dBm      | Hop sequence: 5436, 5488, 5295, 5365, 5612, 5613, 5711, 5669, 5310, 5392, 5702, 5453, 5407, 5446, 5575, 5620, 5465, 5610, 5497, 5699, 5467, 5440, 5723, 5299, 5395, 5664, 5650, 5492, 5571, 5376, 5625, 5695, 5611, 5409, 5283, 5524, 5722, 5363, 5374, 5592, 5267, 5710, 5627, 5443, 5536, 5368, 5308, 5647, 5334, 5332, 5715, 5424, 5577, 5607, 5591, 5716, 5509, 5259, 5543, 5326, 5638, 5504, 5315, 5572, 5464, 5599, 5606, 5471, 5534, 5410, 5380, 5344, 5463, 5578, 5358, 5681, 5346, 5318, 5601, 5388, 5325, 5282, 5356, 5549, 5434, 5586, 5412, 5523, 5659, 5362, 5335, 5360, 5574, 5400, 5516, 5288, 5437, 5521, 5352, 5435 (4 hits) (09/09/2015 02:09:44 PM) |
| 7       | 9                | 1.0                 | 333.0    | Yes      | 5494.7MHz,<br>-63.0dBm      | Hop sequence: 5522, 5664, 5356, 5475, 5698, 5627, 5329, 5375, 5445, 5269, 5453, 5576, 5714, 5570, 5584, 5543, 5550, 5261, 5363, 5354, 5556, 5575, 5499, 5535, 5715, 5332, 5266, 5376, 5713, 5589, 5379, 5524, 5377,                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5599, 5656, 5577, 5678, 5701, 5704, 5389, 5435, 5467, 5334, 5722, 5333, 5325, 5659, 5629, 5371, 5406, 5596, 5529, 5483, 5717, 5720, 5532, 5398, 5407, 5511, 5545, 5288, 5514, 5437, 5439, 5340, 5552, 5469, 5636, 5542, 5610, 5604, 5331, 5280, 5359, 5397, 5586, 5521, 5434, 5263, 5670, 5418, 5504, 5509, 5384, 5546, 5616, 5490, 5479, 5345, 5632, 5399, 5387, 5601, 5463, 5510, 5292, 5366, 5405, 5697, 5591 (3 hits) (09/09/2015 02:09:58 PM)                                                                                                                                                                                                                     |
| 8       | 9                | 1.0                 | 333.0    | Yes      | 5495.7MHz, -63.0dBm         | Hop sequence: 5539, 5394, 5307, 5279, 5610, 5689, 5639, 5395, 5357, 5595, 5631, 5471, 5351, 5670, 5708, 5336, 5274, 5522, 5561, 5411, 5371, 5377, 5339, 5664, 5281, 5410, 5481, 5254, 5563, 5699, 5649, 5571, 5659, 5310, 5348, 5627, 5319, 5500, 5567, 5324, 5560, 5422, 5542, 5688, 5565, 5546, 5652, 5525, 5540, 5442, 5529, 5434, 5360, 5466, 5644, 5450, 5421, 5555, 5463, 5460, 5624, 5543, 5382, 5487, 5596, 5343, 5691, 5418, 5269, 5700, 5287, 5716, 5675, 5695, 5588, 5427, 5538, 5284, 5598, 5332, 5479, 5416, 5289, 5403, 5709, 5342, 5545, 5616, 5392, 5720, 5650, 5390, 5388, 5419, 5283, 5663, 5253, 5609, 5717, 5711 (1 hits) (09/09/2015 02:10:13 PM) |
| 9       | 9                | 1.0                 | 333.0    | Yes      | 5496.7MHz, -63.0dBm         | Hop sequence: 5588, 5548, 5419, 5388, 5578, 5598, 5342, 5280, 5607, 5503, 5464, 5524, 5530, 5584, 5657, 5451, 5521, 5476, 5268, 5364, 5304, 5550, 5515, 5602, 5367, 5614, 5354, 5380, 5482, 5373, 5271, 5650, 5512, 5413, 5454, 5317, 5422, 5551, 5489, 5339, 5672, 5449, 5582, 5253, 5626, 5658, 5564, 5534, 5263, 5471, 5289, 5499, 5352, 5565, 5362, 5430, 5382, 5651, 5297, 5463, 5666, 5710, 5461, 5532, 5479, 5315, 5514, 5702, 5535, 5593, 5273, 5633, 5632, 5620, 5645, 5701, 5456, 5318, 5417, 5276, 5663, 5363, 5494, 5371, 5288, 5355, 5428, 5674, 5567, 5694, 5579, 5574, 5360, 5677, 5541, 5693, 5547, 5282, 5477, 5483 (3 hits) (09/09/2015 02:10:30 PM) |
| 10      | 9                | 1.0                 | 333.0    | Yes      | 5497.7MHz, -63.0dBm         | Hop sequence: 5695, 5676, 5262, 5463, 5378, 5478, 5510, 5305, 5622, 5443, 5495, 5709, 5412, 5511, 5356, 5384, 5278, 5645, 5658, 5255, 5252, 5274, 5487, 5504, 5361, 5634, 5596, 5273, 5253, 5328, 5576, 5265, 5417, 5468, 5406, 5422, 5667, 5517, 5381, 5261, 5416, 5626, 5285, 5605, 5659, 5401, 5398, 5260, 5525, 5615, 5599, 5672, 5505, 5375, 5340, 5465, 5640,                                                                                                                                                                                                                                                                                                    |

**Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5689, 5338, 5336, 5568, 5638, 5387, 5403, 5572, 5357, 5427, 5493, 5457, 5270, 5556, 5516, 5543, 5400, 5280, 5330, 5593, 5635, 5648, 5712, 5292, 5300, 5304, 5371, 5619, 5318, 5359, 5311, 5438, 5562, 5399, 5335, 5512, 5462, 5651, 5682, 5607, 5303, 5535, 5275 (4 hits) (09/09/2015 02:10:45 PM)                                                                                                                                                                                                                                                                                                                                                                     |
| 11      | 9                | 1.0                 | 333.0    | Yes      | 5498.7MHz,<br>-63.0dBm      | Hop sequence: 5486, 5564, 5529, 5497, 5453, 5472, 5595, 5367, 5391, 5706, 5655, 5628, 5685, 5524, 5559, 5315, 5535, 5324, 5543, 5312, 5675, 5378, 5583, 5604, 5347, 5673, 5441, 5689, 5285, 5423, 5582, 5379, 5678, 5510, 5513, 5305, 5358, 5721, 5461, 5286, 5442, 5474, 5536, 5398, 5509, 5299, 5519, 5303, 5364, 5629, 5366, 5434, 5508, 5684, 5506, 5359, 5456, 5287, 5487, 5316, 5289, 5590, 5355, 5662, 5296, 5432, 5562, 5545, 5656, 5323, 5402, 5481, 5695, 5428, 5602, 5572, 5659, 5585, 5691, 5532, 5257, 5650, 5615, 5634, 5368, 5668, 5541, 5592, 5601, 5343, 5392, 5321, 5631, 5557, 5482, 5430, 5416, 5330, 5400, 5261 (4 hits) (09/09/2015 02:11:00 PM) |
| 12      | 9                | 1.0                 | 333.0    | No       | 5499.7MHz,<br>-63.0dBm      | Hop sequence: 5708, 5721, 5531, 5635, 5654, 5457, 5703, 5558, 5611, 5545, 5556, 5629, 5463, 5426, 5698, 5421, 5329, 5706, 5589, 5345, 5383, 5555, 5445, 5707, 5550, 5586, 5372, 5503, 5694, 5425, 5384, 5516, 5357, 5548, 5492, 5667, 5621, 5409, 5462, 5360, 5436, 5464, 5268, 5499, 5682, 5280, 5570, 5429, 5420, 5627, 5331, 5679, 5299, 5254, 5312, 5536, 5286, 5482, 5400, 5380, 5630, 5592, 5443, 5432, 5487, 5553, 5356, 5381, 5637, 5554, 5613, 5431, 5714, 5444, 5252, 5486, 5302, 5416, 5353, 5612, 5417, 5453, 5317, 5333, 5370, 5458, 5474, 5399, 5332, 5511, 5470, 5300, 5705, 5454, 5543, 5387, 5561, 5340, 5382, 5701 (3 hits) (09/09/2015 02:11:15 PM) |
| 13      | 9                | 1.0                 | 333.0    | Yes      | 5500.7MHz,<br>-63.0dBm      | Hop sequence: 5401, 5322, 5423, 5427, 5565, 5718, 5436, 5340, 5695, 5536, 5380, 5646, 5429, 5700, 5632, 5258, 5541, 5442, 5539, 5420, 5271, 5544, 5344, 5493, 5665, 5592, 5359, 5374, 5388, 5492, 5400, 5366, 5294, 5510, 5524, 5549, 5606, 5691, 5256, 5356, 5701, 5331, 5270, 5418, 5324, 5694, 5530, 5329, 5297, 5317, 5557, 5264, 5396, 5387, 5591, 5556, 5514, 5517, 5659, 5597, 5588, 5699, 5705, 5441, 5513, 5693, 5689, 5473, 5664, 5376, 5647, 5653, 5550, 5364, 5491, 5520, 5576, 5495, 5434, 5564, 5613,                                                                                                                                                    |

**Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5555, 5593, 5334, 5274, 5353, 5332, 5477, 5605, 5670, 5561, 5408, 5330, 5559, 5594, 5663, 5425, 5696, 5676, 5525 (4 hits) (09/09/2015 02:11:35 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 14      | 9                | 1.0                 | 333.0    | Yes      | 5501.7MHz,<br>-63.0dBm      | Hop sequence: 5292, 5444, 5352, 5272, 5460, 5555, 5640, 5270, 5471, 5320, 5407, 5654, 5574, 5720, 5385, 5280, 5532, 5658, 5592, 5307, 5467, 5698, 5681, 5656, 5388, 5373, 5662, 5387, 5631, 5523, 5595, 5355, 5630, 5469, 5626, 5403, 5519, 5562, 5319, 5461, 5381, 5254, 5268, 5637, 5437, 5377, 5675, 5705, 5368, 5400, 5356, 5255, 5586, 5652, 5427, 5508, 5693, 5483, 5660, 5264, 5303, 5684, 5429, 5680, 5378, 5359, 5521, 5434, 5513, 5722, 5667, 5371, 5409, 5442, 5258, 5297, 5321, 5598, 5395, 5604, 5647, 5663, 5687, 5602, 5611, 5485, 5383, 5370, 5477, 5576, 5559, 5668, 5625, 5501, 5414, 5711, 5610, 5474, 5430, 5696 (2 hits) (09/09/2015 02:11:48 PM) |
| 15      | 9                | 1.0                 | 333.0    | Yes      | 5502.7MHz,<br>-63.0dBm      | Hop sequence: 5460, 5304, 5339, 5365, 5586, 5330, 5711, 5637, 5718, 5516, 5348, 5367, 5279, 5417, 5406, 5484, 5677, 5434, 5401, 5650, 5294, 5542, 5333, 5539, 5684, 5316, 5714, 5276, 5716, 5721, 5384, 5547, 5292, 5380, 5450, 5567, 5522, 5442, 5591, 5462, 5352, 5667, 5563, 5625, 5355, 5661, 5324, 5695, 5360, 5256, 5585, 5593, 5309, 5634, 5441, 5691, 5444, 5414, 5328, 5589, 5665, 5420, 5613, 5342, 5439, 5597, 5583, 5340, 5719, 5701, 5473, 5518, 5268, 5630, 5543, 5592, 5529, 5385, 5638, 5370, 5354, 5267, 5607, 5561, 5320, 5579, 5629, 5253, 5493, 5299, 5622, 5346, 5264, 5668, 5359, 5433, 5662, 5616, 5600, 5725 (1 hits) (09/09/2015 02:12:01 PM) |
| 16      | 9                | 1.0                 | 333.0    | Yes      | 5503.7MHz,<br>-63.0dBm      | Hop sequence: 5277, 5284, 5279, 5276, 5314, 5631, 5317, 5676, 5596, 5717, 5593, 5558, 5462, 5421, 5343, 5710, 5281, 5664, 5285, 5711, 5257, 5472, 5338, 5571, 5451, 5282, 5428, 5441, 5565, 5306, 5581, 5591, 5548, 5601, 5397, 5260, 5554, 5447, 5694, 5449, 5288, 5618, 5299, 5616, 5367, 5386, 5440, 5567, 5408, 5621, 5286, 5448, 5380, 5637, 5371, 5698, 5365, 5471, 5342, 5678, 5505, 5333, 5494, 5273, 5590, 5628, 5369, 5418, 5419, 5641, 5619, 5675, 5490, 5486, 5535, 5689, 5656, 5390, 5506, 5598, 5623, 5443, 5709, 5375, 5615, 5713, 5502, 5481, 5461, 5706, 5283, 5712, 5714, 5685, 5610, 5460, 5520, 5290, 5388, 5679 (4 hits) (09/09/2015 02:12:15 PM) |

**Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 17      | 9                | 1.0                 | 333.0    | Yes      | 5504.7MHz,<br>-63.0dBm      | Hop sequence: 5356, 5489, 5464,<br>5585, 5539, 5453, 5514, 5258, 5669,<br>5371, 5431, 5392, 5680, 5650, 5380,<br>5422, 5425, 5299, 5488, 5368, 5559,<br>5520, 5566, 5409, 5394, 5518, 5373,<br>5404, 5494, 5330, 5315, 5375, 5416,<br>5619, 5402, 5417, 5307, 5652, 5463,<br>5715, 5359, 5643, 5442, 5608, 5408,<br>5481, 5573, 5277, 5589, 5508, 5395,<br>5623, 5448, 5637, 5654, 5304, 5618,<br>5270, 5473, 5252, 5647, 5342, 5363,<br>5406, 5628, 5388, 5349, 5510, 5266,<br>5329, 5383, 5719, 5625, 5563, 5679,<br>5292, 5521, 5343, 5616, 5604, 5289,<br>5590, 5485, 5682, 5642, 5280, 5579,<br>5673, 5564, 5701, 5275, 5635, 5612,<br>5626, 5354, 5352, 5583, 5586, 5415,<br>5698 (2 hits) (09/09/2015 02:12:35<br>PM) |
| 18      | 9                | 1.0                 | 333.0    | Yes      | 5505.7MHz,<br>-63.0dBm      | Hop sequence: 5498, 5333, 5470,<br>5545, 5676, 5568, 5252, 5434, 5692,<br>5521, 5658, 5251, 5286, 5414, 5428,<br>5528, 5713, 5660, 5445, 5702, 5438,<br>5460, 5478, 5321, 5611, 5379, 5487,<br>5447, 5576, 5411, 5353, 5580, 5503,<br>5326, 5669, 5587, 5488, 5494, 5426,<br>5418, 5274, 5499, 5686, 5564, 5572,<br>5631, 5683, 5529, 5377, 5554, 5522,<br>5546, 5667, 5270, 5698, 5606, 5659,<br>5325, 5706, 5273, 5597, 5298, 5258,<br>5464, 5421, 5349, 5625, 5363, 5409,<br>5459, 5640, 5718, 5281, 5334, 5725,<br>5352, 5710, 5330, 5467, 5570, 5591,<br>5265, 5453, 5507, 5368, 5319, 5628,<br>5393, 5423, 5401, 5341, 5382, 5257,<br>5673, 5693, 5585, 5509, 5288, 5687,<br>5556 (6 hits) (09/09/2015 02:12:54<br>PM) |
| 19      | 9                | 1.0                 | 333.0    | Yes      | 5506.7MHz,<br>-63.0dBm      | Hop sequence: 5504, 5662, 5540,<br>5317, 5417, 5422, 5339, 5468, 5414,<br>5311, 5678, 5342, 5644, 5407, 5406,<br>5719, 5557, 5663, 5402, 5527, 5508,<br>5698, 5251, 5322, 5581, 5399, 5394,<br>5434, 5587, 5368, 5503, 5260, 5442,<br>5370, 5555, 5604, 5423, 5635, 5502,<br>5419, 5534, 5284, 5346, 5695, 5333,<br>5552, 5364, 5330, 5276, 5659, 5618,<br>5470, 5626, 5576, 5464, 5590, 5380,<br>5256, 5542, 5652, 5451, 5363, 5665,<br>5474, 5656, 5721, 5297, 5375, 5294,<br>5715, 5624, 5429, 5264, 5633, 5307,<br>5457, 5431, 5309, 5465, 5403, 5711,<br>5366, 5714, 5543, 5691, 5509, 5671,<br>5257, 5520, 5384, 5586, 5329, 5418,<br>5668, 5427, 5288, 5601, 5267, 5265,<br>5400 (5 hits) (09/09/2015 02:13:06<br>PM) |
| 20      | 9                | 1.0                 | 333.0    | Yes      | 5507.7MHz,<br>-63.0dBm      | Hop sequence: 5583, 5680, 5274,<br>5601, 5708, 5572, 5670, 5665, 5629,<br>5520, 5694, 5712, 5505, 5283, 5324,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5410, 5588, 5399, 5374, 5625, 5619, 5513, 5621, 5568, 5404, 5434, 5382, 5416, 5342, 5390, 5389, 5540, 5485, 5565, 5726, 5263, 5705, 5482, 5281, 5611, 5270, 5343, 5673, 5590, 5431, 5369, 5528, 5276, 5662, 5473, 5457, 5367, 5261, 5265, 5478, 5560, 5412, 5546, 5456, 5508, 5627, 5644, 5492, 5716, 5664, 5466, 5253, 5493, 5541, 5289, 5709, 5398, 5329, 5391, 5615, 5430, 5254, 5438, 5531, 5667, 5691, 5349, 5460, 5433, 5480, 5525, 5543, 5504, 5314, 5579, 5630, 5377, 5455, 5682, 5304, 5458, 5319, 5299, 5325, 5402 (5 hits) (09/09/2015 02:13:20 PM)                                                                                                         |
| 21      | 9                | 1.0                 | 333.0    | Yes      | 5508.7MHz,<br>-63.0dBm      | Hop sequence: 5649, 5523, 5453, 5511, 5527, 5585, 5613, 5698, 5365, 5556, 5567, 5306, 5332, 5714, 5352, 5496, 5259, 5601, 5267, 5676, 5596, 5339, 5660, 5693, 5720, 5469, 5405, 5266, 5269, 5709, 5403, 5333, 5647, 5638, 5477, 5553, 5290, 5631, 5704, 5512, 5603, 5286, 5381, 5461, 5520, 5470, 5281, 5371, 5346, 5356, 5389, 5445, 5685, 5334, 5433, 5499, 5572, 5320, 5692, 5444, 5557, 5296, 5626, 5688, 5668, 5456, 5530, 5422, 5475, 5719, 5292, 5343, 5426, 5310, 5291, 5459, 5564, 5494, 5642, 5658, 5386, 5574, 5533, 5430, 5361, 5508, 5450, 5351, 5604, 5257, 5274, 5618, 5667, 5525, 5655, 5379, 5534, 5700, 5289, 5393 (4 hits) (09/09/2015 02:13:33 PM) |
| 22      | 9                | 1.0                 | 333.0    | Yes      | 5509.7MHz,<br>-63.0dBm      | Hop sequence: 5540, 5534, 5546, 5448, 5476, 5355, 5707, 5610, 5276, 5330, 5468, 5632, 5291, 5644, 5670, 5311, 5424, 5456, 5653, 5325, 5581, 5394, 5543, 5484, 5528, 5684, 5620, 5593, 5477, 5590, 5649, 5385, 5655, 5634, 5658, 5524, 5519, 5492, 5465, 5358, 5326, 5646, 5415, 5642, 5472, 5457, 5362, 5693, 5442, 5323, 5608, 5720, 5705, 5302, 5413, 5575, 5724, 5586, 5486, 5364, 5710, 5347, 5280, 5509, 5666, 5712, 5605, 5408, 5503, 5255, 5390, 5621, 5488, 5716, 5335, 5495, 5714, 5296, 5473, 5270, 5410, 5569, 5312, 5506, 5418, 5554, 5264, 5545, 5399, 5460, 5349, 5500, 5691, 5567, 5307, 5354, 5282, 5510, 5494, 5552 (7 hits) (09/09/2015 02:13:47 PM) |
| 23      | 9                | 1.0                 | 333.0    | Yes      | 5490.7MHz,<br>-63.0dBm      | Hop sequence: 5377, 5666, 5554, 5570, 5295, 5455, 5406, 5504, 5671, 5296, 5347, 5387, 5358, 5256, 5578, 5523, 5528, 5371, 5691, 5266, 5294, 5284, 5326, 5661, 5700, 5682, 5420, 5514, 5603, 5470, 5261, 5660, 5634, 5414, 5356, 5255, 5685, 5522, 5500,                                                                                                                                                                                                                                                                                                                                                                                                                |

**Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5625, 5328, 5418, 5405, 5725, 5299, 5592, 5513, 5723, 5665, 5499, 5275, 5698, 5670, 5318, 5330, 5270, 5722, 5462, 5502, 5378, 5479, 5304, 5282, 5689, 5344, 5457, 5594, 5289, 5667, 5316, 5291, 5419, 5542, 5520, 5397, 5565, 5525, 5696, 5506, 5489, 5580, 5724, 5608, 5334, 5537, 5430, 5447, 5615, 5524, 5477, 5495, 5264, 5362, 5655, 5640, 5422, 5424, 5280, 5577, 5327 (6 hits) (09/09/2015 02:14:20 PM)                                                                                                                                                                                                                                                         |
| 24      | 9                | 1.0                 | 333.0    | Yes      | 5491.7MHz,<br>-63.0dBm      | Hop sequence: 5566, 5328, 5676, 5616, 5549, 5439, 5697, 5265, 5724, 5360, 5344, 5471, 5565, 5264, 5385, 5252, 5628, 5516, 5621, 5424, 5285, 5476, 5691, 5540, 5262, 5522, 5670, 5400, 5710, 5470, 5408, 5323, 5306, 5410, 5648, 5428, 5365, 5699, 5605, 5449, 5714, 5414, 5662, 5434, 5373, 5487, 5419, 5440, 5263, 5423, 5441, 5384, 5254, 5698, 5259, 5451, 5442, 5472, 5671, 5626, 5495, 5473, 5455, 5550, 5525, 5427, 5719, 5287, 5611, 5490, 5654, 5478, 5682, 5604, 5589, 5280, 5465, 5553, 5318, 5690, 5696, 5587, 5612, 5282, 5322, 5483, 5353, 5383, 5273, 5325, 5569, 5411, 5504, 5638, 5529, 5326, 5658, 5359, 5505, 5345 (3 hits) (09/09/2015 02:14:33 PM) |
| 25      | 9                | 1.0                 | 333.0    | Yes      | 5492.7MHz,<br>-63.0dBm      | Hop sequence: 5342, 5669, 5369, 5695, 5455, 5566, 5519, 5424, 5418, 5532, 5478, 5453, 5565, 5472, 5649, 5333, 5339, 5417, 5451, 5701, 5363, 5665, 5317, 5312, 5638, 5668, 5398, 5523, 5722, 5360, 5357, 5454, 5311, 5579, 5595, 5435, 5541, 5329, 5540, 5596, 5620, 5325, 5496, 5494, 5270, 5370, 5489, 5403, 5278, 5307, 5334, 5667, 5343, 5624, 5510, 5636, 5458, 5288, 5386, 5411, 5559, 5605, 5477, 5691, 5500, 5556, 5372, 5368, 5569, 5671, 5492, 5316, 5298, 5443, 5645, 5283, 5558, 5600, 5587, 5513, 5394, 5371, 5625, 5457, 5724, 5473, 5561, 5552, 5580, 5462, 5383, 5535, 5536, 5361, 5289, 5576, 5254, 5275, 5468, 5374 (4 hits) (09/09/2015 02:14:46 PM) |
| 26      | 9                | 1.0                 | 333.0    | Yes      | 5493.7MHz,<br>-63.0dBm      | Hop sequence: 5389, 5395, 5369, 5433, 5344, 5615, 5676, 5348, 5725, 5368, 5432, 5567, 5660, 5518, 5540, 5335, 5387, 5692, 5383, 5349, 5604, 5595, 5530, 5718, 5290, 5521, 5468, 5642, 5422, 5661, 5330, 5601, 5495, 5425, 5657, 5336, 5553, 5393, 5546, 5279, 5420, 5541, 5278, 5455, 5275, 5562, 5281, 5359, 5556, 5589, 5256, 5490, 5652, 5453, 5519, 5687, 5591, 5621, 5708, 5717, 5675, 5252, 5280,                                                                                                                                                                                                                                                                |

**Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5535, 5375, 5576, 5570, 5412, 5565, 5415, 5474, 5358, 5416, 5509, 5585, 5430, 5590, 5658, 5641, 5318, 5332, 5411, 5431, 5688, 5334, 5614, 5262, 5552, 5721, 5569, 5596, 5475, 5696, 5594, 5511, 5566, 5508, 5465, 5498, 5625 (4 hits) (09/09/2015 02:15:00 PM)                                                                                                                                                                                                                                                                                                                                                                                                         |
| 27      | 9                | 1.0                 | 333.0    | Yes      | 5494.7MHz,<br>-63.0dBm      | Hop sequence: 5569, 5425, 5256, 5337, 5392, 5468, 5404, 5461, 5562, 5614, 5658, 5668, 5688, 5641, 5635, 5515, 5308, 5561, 5545, 5650, 5354, 5443, 5479, 5643, 5328, 5428, 5505, 5485, 5471, 5327, 5402, 5341, 5275, 5280, 5559, 5540, 5293, 5657, 5554, 5342, 5474, 5610, 5497, 5423, 5431, 5254, 5639, 5347, 5721, 5255, 5718, 5455, 5357, 5325, 5602, 5717, 5274, 5563, 5670, 5532, 5367, 5467, 5694, 5723, 5542, 5560, 5640, 5583, 5401, 5449, 5673, 5704, 5282, 5484, 5552, 5593, 5622, 5470, 5577, 5555, 5693, 5611, 5645, 5557, 5472, 5460, 5318, 5679, 5306, 5295, 5397, 5477, 5671, 5592, 5521, 5267, 5415, 5283, 5598, 5439 (2 hits) (09/09/2015 02:15:15 PM) |
| 28      | 9                | 1.0                 | 333.0    | Yes      | 5495.7MHz,<br>-63.0dBm      | Hop sequence: 5300, 5592, 5711, 5684, 5575, 5561, 5620, 5449, 5521, 5439, 5266, 5263, 5546, 5623, 5356, 5415, 5350, 5618, 5554, 5577, 5690, 5472, 5625, 5428, 5470, 5455, 5632, 5381, 5626, 5607, 5392, 5526, 5643, 5267, 5463, 5709, 5420, 5515, 5352, 5531, 5560, 5303, 5371, 5402, 5302, 5407, 5514, 5460, 5363, 5509, 5398, 5330, 5503, 5467, 5492, 5488, 5657, 5506, 5427, 5294, 5634, 5717, 5504, 5436, 5664, 5499, 5368, 5578, 5307, 5316, 5599, 5388, 5418, 5679, 5297, 5548, 5714, 5698, 5442, 5315, 5430, 5720, 5260, 5624, 5532, 5663, 5555, 5273, 5261, 5674, 5518, 5493, 5341, 5629, 5692, 5579, 5610, 5495, 5270, 5366 (8 hits) (09/09/2015 02:15:28 PM) |
| 29      | 9                | 1.0                 | 333.0    | Yes      | 5496.7MHz,<br>-63.0dBm      | Hop sequence: 5658, 5511, 5393, 5614, 5287, 5559, 5465, 5327, 5541, 5558, 5711, 5305, 5308, 5365, 5328, 5339, 5608, 5363, 5448, 5260, 5358, 5467, 5638, 5429, 5525, 5380, 5617, 5643, 5611, 5543, 5616, 5602, 5299, 5451, 5345, 5435, 5417, 5405, 5585, 5353, 5267, 5551, 5387, 5641, 5629, 5466, 5574, 5254, 5384, 5420, 5546, 5623, 5397, 5456, 5410, 5573, 5301, 5583, 5651, 5323, 5502, 5685, 5640, 5654, 5444, 5369, 5678, 5347, 5395, 5398, 5495, 5336, 5355, 5485, 5615, 5272, 5443, 5589, 5373, 5469, 5596, 5705, 5579, 5566, 5681, 5399, 5264,                                                                                                                |

**Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5253, 5526, 5508, 5537, 5419, 5665, 5436, 5379, 5680, 5548, 5635, 5315, 5650 (3 hits) (09/09/2015 02:15:41 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 30      | 9                | 1.0                 | 333.0    | Yes      | 5497.7MHz,<br>-63.0dBm      | Hop sequence: 5481, 5681, 5283, 5702, 5424, 5652, 5397, 5494, 5289, 5519, 5254, 5383, 5427, 5680, 5616, 5258, 5551, 5558, 5536, 5486, 5396, 5656, 5544, 5320, 5367, 5463, 5303, 5696, 5444, 5467, 5368, 5612, 5458, 5485, 5418, 5482, 5692, 5496, 5348, 5345, 5647, 5561, 5384, 5466, 5292, 5650, 5464, 5324, 5351, 5502, 5670, 5326, 5264, 5269, 5556, 5599, 5628, 5619, 5452, 5669, 5374, 5470, 5526, 5273, 5596, 5287, 5399, 5691, 5293, 5436, 5369, 5308, 5532, 5653, 5414, 5261, 5699, 5362, 5318, 5322, 5335, 5638, 5636, 5715, 5701, 5387, 5587, 5406, 5445, 5527, 5310, 5319, 5403, 5560, 5425, 5651, 5378, 5562, 5468, 5604 (3 hits) (09/09/2015 02:15:58 PM) |
| 31      | 9                | 1.0                 | 333.0    | Yes      | 5498.7MHz,<br>-63.0dBm      | Hop sequence: 5387, 5377, 5606, 5336, 5450, 5394, 5272, 5300, 5489, 5268, 5440, 5264, 5509, 5667, 5354, 5576, 5317, 5584, 5457, 5556, 5676, 5333, 5454, 5640, 5522, 5632, 5442, 5255, 5693, 5480, 5547, 5372, 5441, 5297, 5436, 5596, 5706, 5597, 5467, 5310, 5617, 5265, 5341, 5487, 5426, 5443, 5279, 5337, 5373, 5642, 5322, 5718, 5660, 5626, 5370, 5347, 5479, 5332, 5528, 5430, 5624, 5314, 5425, 5303, 5329, 5339, 5659, 5295, 5298, 5654, 5501, 5431, 5572, 5615, 5570, 5419, 5403, 5511, 5492, 5346, 5542, 5424, 5545, 5561, 5575, 5266, 5460, 5366, 5610, 5358, 5653, 5608, 5490, 5598, 5260, 5325, 5458, 5563, 5691, 5701 (3 hits)                          |
| 32      | 9                | 1.0                 | 333.0    | Yes      | 5499.7MHz,<br>-63.0dBm      | Hop sequence: 5523, 5286, 5553, 5475, 5533, 5591, 5336, 5536, 5253, 5469, 5465, 5488, 5504, 5508, 5440, 5387, 5372, 5275, 5344, 5699, 5641, 5427, 5629, 5652, 5445, 5485, 5321, 5572, 5706, 5693, 5681, 5666, 5496, 5635, 5519, 5269, 5320, 5615, 5622, 5482, 5370, 5418, 5716, 5632, 5688, 5308, 5266, 5503, 5374, 5431, 5391, 5634, 5545, 5611, 5281, 5507, 5398, 5434, 5546, 5423, 5650, 5276, 5686, 5592, 5404, 5521, 5316, 5625, 5477, 5483, 5511, 5541, 5298, 5569, 5584, 5612, 5383, 5386, 5514, 5368, 5395, 5287, 5674, 5389, 5251, 5628, 5663, 5658, 5384, 5363, 5290, 5697, 5724, 5438, 5273, 5709, 5683, 5690, 5725, 5335 (5 hits)                          |
| 33      | 9                | 1.0                 | 333.0    | Yes      | 5500.7MHz,                  | Hop sequence: 5293, 5433, 5549, 5361, 5609, 5580, 5330, 5530, 5464,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------|------------------|---------------------|----------|----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          | -63.0dBm                    | 5362, 5625, 5514, 5702, 5390, 5372, 5411, 5346, 5578, 5597, 5366, 5505, 5319, 5524, 5465, 5672, 5546, 5605, 5438, 5593, 5277, 5471, 5633, 5655, 5718, 5297, 5446, 5322, 5254, 5621, 5279, 5397, 5724, 5500, 5629, 5643, 5575, 5540, 5430, 5519, 5611, 5706, 5515, 5694, 5488, 5705, 5638, 5543, 5337, 5473, 5401, 5448, 5359, 5261, 5352, 5299, 5342, 5608, 5521, 5318, 5259, 5598, 5380, 5485, 5581, 5348, 5389, 5631, 5696, 5388, 5437, 5444, 5449, 5716, 5630, 5536, 5253, 5353, 5396, 5324, 5416, 5722, 5296, 5654, 5603, 5305, 5688, 5529, 5375, 5679, 5583 (2 hits)                                                                     |
| 34      | 9                | 1.0                 | 333.0    | Yes      | 5501.7MHz,<br>-63.0dBm      | Hop sequence: 5429, 5332, 5267, 5299, 5496, 5599, 5437, 5577, 5587, 5416, 5615, 5627, 5491, 5532, 5659, 5717, 5390, 5263, 5626, 5472, 5508, 5676, 5277, 5570, 5707, 5535, 5355, 5500, 5646, 5327, 5670, 5592, 5527, 5690, 5460, 5308, 5716, 5574, 5324, 5255, 5383, 5606, 5530, 5413, 5618, 5423, 5270, 5493, 5410, 5251, 5714, 5420, 5279, 5265, 5384, 5352, 5422, 5360, 5446, 5395, 5675, 5529, 5291, 5657, 5612, 5469, 5421, 5307, 5252, 5511, 5638, 5323, 5359, 5691, 5304, 5639, 5524, 5477, 5498, 5695, 5269, 5366, 5585, 5704, 5683, 5318, 5629, 5468, 5641, 5622, 5672, 5645, 5338, 5425, 5281, 5654, 5544, 5431, 5314, 5712 (6 hits) |
| 35      | 9                | 1.0                 | 333.0    | Yes      | 5502.7MHz,<br>-63.0dBm      | Hop sequence: 5448, 5548, 5332, 5275, 5452, 5663, 5367, 5657, 5692, 5575, 5314, 5398, 5668, 5592, 5358, 5539, 5258, 5462, 5388, 5593, 5712, 5252, 5499, 5623, 5660, 5379, 5571, 5268, 5382, 5643, 5586, 5397, 5450, 5267, 5705, 5652, 5604, 5336, 5667, 5678, 5664, 5510, 5278, 5328, 5383, 5432, 5409, 5494, 5277, 5681, 5463, 5273, 5607, 5710, 5699, 5348, 5418, 5701, 5482, 5293, 5366, 5553, 5638, 5422, 5424, 5603, 5478, 5694, 5490, 5442, 5506, 5714, 5656, 5659, 5374, 5356, 5502, 5698, 5426, 5551, 5547, 5261, 5650, 5513, 5552, 5718, 5589, 5716, 5579, 5375, 5600, 5324, 5364, 5399, 5644, 5639, 5406, 5384, 5658, 5447 (4 hits) |
| 36      | 9                | 1.0                 | 333.0    | Yes      | 5503.7MHz,<br>-63.0dBm      | Hop sequence: 5355, 5469, 5473, 5398, 5648, 5384, 5720, 5608, 5681, 5445, 5629, 5487, 5332, 5462, 5647, 5670, 5572, 5278, 5568, 5718, 5418, 5273, 5573, 5346, 5266, 5594, 5294, 5289, 5436, 5674, 5596, 5301, 5590, 5591, 5468, 5408, 5553, 5537, 5295, 5531, 5550, 5443, 5506, 5413, 5560, 5626, 5651, 5542, 5372, 5268, 5609,                                                                                                                                                                                                                                                                                                               |

**Table 47 - FCC frequency hopping radar (Type 6) Results 20 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------|------------------|---------------------|----------|----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5565, 5352, 5687, 5340, 5579, 5265, 5323, 5343, 5685, 5620, 5258, 5536, 5606, 5412, 5656, 5274, 5288, 5371, 5589, 5366, 5429, 5726, 5630, 5715, 5658, 5479, 5393, 5396, 5666, 5723, 5394, 5275, 5623, 5349, 5642, 5419, 5353, 5361, 5312, 5631, 5561, 5494, 5491, 5322, 5498, 5391, 5530, 5621, 5440 (4 hits)                                                                                                                                                                                                                                                                                                                                 |
| 37      | 9                | 1.0                 | 333.0    | Yes      | 5504.7MHz,<br>-63.0dBm      | Hop sequence: 5443, 5630, 5471, 5258, 5666, 5563, 5256, 5392, 5372, 5307, 5431, 5535, 5569, 5526, 5481, 5422, 5384, 5668, 5685, 5449, 5386, 5280, 5687, 5349, 5289, 5259, 5327, 5281, 5660, 5261, 5522, 5356, 5426, 5516, 5282, 5343, 5505, 5691, 5316, 5507, 5529, 5722, 5531, 5398, 5297, 5353, 5663, 5702, 5277, 5450, 5436, 5697, 5306, 5656, 5360, 5642, 5374, 5458, 5718, 5617, 5378, 5361, 5375, 5373, 5540, 5584, 5291, 5606, 5347, 5538, 5419, 5649, 5367, 5573, 5696, 5547, 5271, 5363, 5480, 5358, 5551, 5401, 5470, 5269, 5397, 5698, 5503, 5570, 5599, 5295, 5635, 5559, 5587, 5451, 5521, 5296, 5325, 5541, 5567, 5406 (3 hits) |
| 38      | 9                | 1.0                 | 333.0    | Yes      | 5505.7MHz,<br>-63.0dBm      | Hop sequence: 5293, 5651, 5413, 5560, 5660, 5354, 5642, 5435, 5697, 5520, 5575, 5475, 5397, 5296, 5330, 5577, 5565, 5688, 5682, 5337, 5604, 5375, 5486, 5661, 5580, 5374, 5548, 5691, 5427, 5547, 5585, 5720, 5274, 5542, 5686, 5663, 5710, 5442, 5422, 5646, 5462, 5656, 5410, 5489, 5621, 5493, 5586, 5440, 5551, 5639, 5657, 5424, 5451, 5684, 5352, 5405, 5516, 5409, 5610, 5528, 5321, 5331, 5508, 5494, 5550, 5356, 5305, 5363, 5590, 5726, 5449, 5630, 5633, 5674, 5315, 5319, 5638, 5267, 5432, 5523, 5414, 5366, 5622, 5310, 5328, 5582, 5404, 5635, 5608, 5544, 5702, 5385, 5460, 5545, 5362, 5259, 5706, 5581, 5357, 5364 (3 hits) |

**Table 48 - Summary of All Results 40 MHz**

| Waveform Name                        | Pd (%)  | Pd Required (%) | Number of Trials | Status |
|--------------------------------------|---------|-----------------|------------------|--------|
| FCC Short Pulse Radar (Type 1A)      | 100.0 % | 60.0 %          | 15               | PASSED |
| FCC Short Pulse Radar (Type 1B)      | 100.0 % | 60.0 %          | 15               | PASSED |
| FCC Short Pulse Radar (Type 2)       | 93.3 %  | 60.0 %          | 30               | PASSED |
| FCC Short Pulse Radar (Type 3)       | 73.3 %  | 60.0 %          | 30               | PASSED |
| FCC Short Pulse Radar (Type 4)       | 63.3 %  | 60.0 %          | 30               | PASSED |
| Aggregate of above results           | 86.0 %  | 80.0 %          | 120              | PASSED |
| Long Sequence                        | 90.0 %  | 80.0 %          | 30               | PASSED |
| FCC frequency hopping radar (Type 6) | 100.0 % | 70.0 %          | 39               | PASSED |

**Table 49 - FCC Short Pulse Radar (Type 1A) Results 40 MHz**

| Trial # | Pulses/Burst | Pulse Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|--------------|------------------|----------|----------|--------------------------|-------------------|
| 1       | 78           | 1.0              | 678.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 2       | 61           | 1.0              | 878.0    | Yes      | 5522.0MHz, -63.0dBm      | Single burst      |
| 3       | 72           | 1.0              | 738.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 4       | 65           | 1.0              | 818.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 5       | 95           | 1.0              | 558.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 6       | 58           | 1.0              | 918.0    | Yes      | 5498.0MHz, -63.0dBm      | Single burst      |
| 7       | 102          | 1.0              | 518.0    | Yes      | 5517.0MHz, -63.0dBm      | Single burst      |
| 8       | 76           | 1.0              | 698.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 9       | 70           | 1.0              | 758.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 10      | 83           | 1.0              | 638.0    | Yes      | 5498.0MHz, -63.0dBm      | Single burst      |
| 11      | 81           | 1.0              | 658.0    | Yes      | 5516.0MHz, -63.0dBm      | Single burst      |
| 12      | 59           | 1.0              | 898.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 13      | 92           | 1.0              | 578.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 14      | 63           | 1.0              | 838.0    | Yes      | 5494.0MHz, -63.0dBm      | Single burst      |
| 15      | 74           | 1.0              | 718.0    | Yes      | 5505.0MHz, -63.0dBm      | Single burst      |

**Table 50 - FCC Short Pulse Radar (Type 1B) Results 40 MHz**

| Trial # | Pulses/Burst | Pulse Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|--------------|------------------|----------|----------|--------------------------|-------------------|
| 1       | 41           | 1.0              | 1302.0   | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 2       | 22           | 1.0              | 2433.0   | Yes      | 5525.0MHz, -63.0dBm      | Single burst      |
| 3       | 21           | 1.0              | 2597.0   | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 4       | 21           | 1.0              | 2522.0   | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 5       | 30           | 1.0              | 1804.0   | Yes      | 5492.0MHz, -63.0dBm      | Single burst      |
| 6       | 38           | 1.0              | 1424.0   | Yes      | 5506.0MHz, -63.0dBm      | Single burst      |
| 7       | 39           | 1.0              | 1363.0   | Yes      | 5519.0MHz, -63.0dBm      | Single burst      |
| 8       | 33           | 1.0              | 1609.0   | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 9       | 27           | 1.0              | 2028.0   | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 10      | 53           | 1.0              | 1013.0   | Yes      | 5498.0MHz, -63.0dBm      | Single burst      |
| 11      | 18           | 1.0              | 2977.0   | Yes      | 5517.0MHz, -63.0dBm      | Single burst      |
| 12      | 41           | 1.0              | 1301.0   | Yes      | 5527.0MHz, -63.0dBm      | Single burst      |
| 13      | 31           | 1.0              | 1709.0   | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 14      | 37           | 1.0              | 1460.0   | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 15      | 21           | 1.0              | 2575.0   | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |

**Table 51 - FCC Short Pulse Radar (Type 2) Results 40 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|------------------|---------------------|----------|----------|--------------------------|-------------------|
| 1       | 24               | 2.9                 | 194.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 2       | 26               | 3.5                 | 228.0    | Yes      | 5522.0MHz, -63.0dBm      | Single burst      |
| 3       | 25               | 4.3                 | 173.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 4       | 25               | 1.2                 | 223.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 5       | 23               | 4.9                 | 183.0    | Yes      | 5498.0MHz, -63.0dBm      | Single burst      |
| 6       | 24               | 2.4                 | 172.0    | Yes      | 5514.0MHz, -63.0dBm      | Single burst      |
| 7       | 26               | 2.4                 | 208.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 8       | 23               | 1.1                 | 206.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 9       | 24               | 2.1                 | 197.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 10      | 27               | 3.5                 | 191.0    | Yes      | 5495.0MHz, -63.0dBm      | Single burst      |
| 11      | 27               | 2.1                 | 159.0    | Yes      | 5508.0MHz, -63.0dBm      | Single burst      |
| 12      | 25               | 2.7                 | 202.0    | Yes      | 5519.0MHz, -63.0dBm      | Single burst      |
| 13      | 28               | 2.9                 | 194.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 14      | 26               | 3.7                 | 191.0    | No       | 5491.0MHz, -63.0dBm      | Single burst      |
| 15      | 27               | 2.7                 | 156.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 16      | 25               | 3.6                 | 193.0    | Yes      | 5495.0MHz, -63.0dBm      | Single burst      |
| 17      | 29               | 2.6                 | 151.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 18      | 24               | 1.1                 | 187.0    | Yes      | 5523.0MHz, -63.0dBm      | Single burst      |
| 19      | 29               | 2.8                 | 205.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 20      | 29               | 1.5                 | 166.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 21      | 25               | 3.8                 | 207.0    | Yes      | 5499.0MHz, -63.0dBm      | Single burst      |
| 22      | 25               | 2.0                 | 153.0    | Yes      | 5513.0MHz, -63.0dBm      | Single burst      |
| 23      | 23               | 1.3                 | 226.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 24      | 29               | 4.2                 | 204.0    | No       | 5491.0MHz, -63.0dBm      | Single burst      |
| 25      | 25               | 3.3                 | 159.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 26      | 24               | 2.3                 | 167.0    | Yes      | 5497.0MHz, -63.0dBm      | Single burst      |
| 27      | 25               | 3.5                 | 225.0    | Yes      | 5507.0MHz, -63.0dBm      | Single burst      |
| 28      | 26               | 4.2                 | 227.0    | Yes      | 5517.0MHz, -63.0dBm      | Single burst      |
| 29      | 27               | 1.4                 | 168.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 30      | 24               | 1.6                 | 187.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |

**Table 52 - FCC Short Pulse Radar (Type 3) Results 40 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|------------------|---------------------|----------|----------|--------------------------|-------------------|
| 1       | 18               | 9.1                 | 417.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 2       | 17               | 7.7                 | 459.0    | Yes      | 5520.0MHz, -63.0dBm      | Single burst      |
| 3       | 16               | 9.2                 | 244.0    | No       | 5529.0MHz, -63.0dBm      | Single burst      |
| 4       | 17               | 6.9                 | 315.0    | No       | 5529.0MHz, -63.0dBm      | Single burst      |
| 5       | 18               | 6.1                 | 456.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 6       | 18               | 7.7                 | 337.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 7       | 17               | 9.3                 | 351.0    | Yes      | 5497.0MHz, -63.0dBm      | Single burst      |
| 8       | 18               | 6.7                 | 417.0    | Yes      | 5516.0MHz, -63.0dBm      | Single burst      |
| 9       | 16               | 9.1                 | 412.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 10      | 17               | 9.0                 | 409.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 11      | 17               | 6.4                 | 407.0    | Yes      | 5496.0MHz, -63.0dBm      | Single burst      |
| 12      | 18               | 7.7                 | 307.0    | Yes      | 5507.0MHz, -63.0dBm      | Single burst      |
| 13      | 16               | 7.0                 | 489.0    | Yes      | 5526.0MHz, -63.0dBm      | Single burst      |
| 14      | 16               | 8.1                 | 415.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 15      | 18               | 6.2                 | 256.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 16      | 17               | 6.3                 | 421.0    | Yes      | 5497.0MHz, -63.0dBm      | Single burst      |
| 17      | 17               | 8.4                 | 224.0    | No       | 5509.0MHz, -63.0dBm      | Single burst      |
| 18      | 18               | 6.2                 | 358.0    | Yes      | 5509.0MHz, -63.0dBm      | Single burst      |
| 19      | 17               | 6.8                 | 462.0    | Yes      | 5523.0MHz, -63.0dBm      | Single burst      |
| 20      | 17               | 8.3                 | 254.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 21      | 17               | 9.3                 | 468.0    | No       | 5491.0MHz, -63.0dBm      | Single burst      |
| 22      | 17               | 7.1                 | 360.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 23      | 17               | 8.9                 | 481.0    | Yes      | 5500.0MHz, -63.0dBm      | Single burst      |
| 24      | 18               | 6.3                 | 462.0    | Yes      | 5516.0MHz, -63.0dBm      | Single burst      |
| 25      | 16               | 6.2                 | 241.0    | No       | 5526.0MHz, -63.0dBm      | Single burst      |
| 26      | 18               | 9.5                 | 446.0    | Yes      | 5526.0MHz, -63.0dBm      | Single burst      |
| 27      | 16               | 7.5                 | 226.0    | No       | 5529.0MHz, -63.0dBm      | Single burst      |
| 28      | 18               | 8.3                 | 399.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 29      | 17               | 6.9                 | 318.0    | No       | 5491.0MHz, -63.0dBm      | Single burst      |
| 30      | 18               | 7.4                 | 298.0    | No       | 5491.0MHz, -63.0dBm      | Single burst      |

**Table 53 - FCC Short Pulse Radar (Type 4) Results 40 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|------------------|---------------------|----------|----------|--------------------------|-------------------|
| 1       | 14               | 12.2                | 235.0    | No       | 5510.0MHz, -63.0dBm      | Single burst      |
| 2       | 13               | 14.9                | 373.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 3       | 16               | 18.2                | 436.0    | Yes      | 5526.0MHz, -63.0dBm      | Single burst      |
| 4       | 12               | 17.4                | 271.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 5       | 14               | 14.4                | 481.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 6       | 13               | 12.1                | 392.0    | Yes      | 5499.0MHz, -63.0dBm      | Single burst      |
| 7       | 16               | 13.9                | 204.0    | No       | 5510.0MHz, -63.0dBm      | Single burst      |
| 8       | 12               | 14.8                | 257.0    | Yes      | 5510.0MHz, -63.0dBm      | Single burst      |
| 9       | 13               | 14.7                | 494.0    | No       | 5524.0MHz, -63.0dBm      | Single burst      |
| 10      | 15               | 11.1                | 244.0    | Yes      | 5524.0MHz, -63.0dBm      | Single burst      |
| 11      | 15               | 17.3                | 267.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 12      | 14               | 17.4                | 349.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 13      | 13               | 19.9                | 471.0    | Yes      | 5494.0MHz, -63.0dBm      | Single burst      |
| 14      | 13               | 17.5                | 434.0    | Yes      | 5505.0MHz, -63.0dBm      | Single burst      |
| 15      | 15               | 15.4                | 452.0    | No       | 5524.0MHz, -63.0dBm      | Single burst      |
| 16      | 15               | 14.7                | 459.0    | Yes      | 5524.0MHz, -63.0dBm      | Single burst      |
| 17      | 13               | 19.1                | 494.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 18      | 13               | 19.0                | 493.0    | No       | 5491.0MHz, -63.0dBm      | Single burst      |
| 19      | 14               | 14.3                | 490.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 20      | 16               | 13.0                | 266.0    | Yes      | 5494.0MHz, -63.0dBm      | Single burst      |
| 21      | 14               | 16.1                | 288.0    | Yes      | 5511.0MHz, -63.0dBm      | Single burst      |
| 22      | 16               | 15.4                | 480.0    | Yes      | 5529.0MHz, -63.0dBm      | Single burst      |
| 23      | 16               | 16.8                | 491.0    | No       | 5491.0MHz, -63.0dBm      | Single burst      |
| 24      | 16               | 19.9                | 254.0    | No       | 5491.0MHz, -63.0dBm      | Single burst      |
| 25      | 15               | 18.0                | 323.0    | No       | 5491.0MHz, -63.0dBm      | Single burst      |
| 26      | 13               | 13.5                | 341.0    | No       | 5491.0MHz, -63.0dBm      | Single burst      |
| 27      | 13               | 13.6                | 227.0    | No       | 5491.0MHz, -63.0dBm      | Single burst      |
| 28      | 12               | 13.3                | 303.0    | Yes      | 5491.0MHz, -63.0dBm      | Single burst      |
| 29      | 16               | 15.2                | 482.0    | No       | 5495.0MHz, -63.0dBm      | Single burst      |
| 30      | 16               | 13.2                | 465.0    | Yes      | 5495.0MHz, -63.0dBm      | Single burst      |

| Table 54 - Long Sequence Waveform Summary 40 MHz |              |                             |
|--------------------------------------------------|--------------|-----------------------------|
| Long Sequence Trial                              | Result       | Radar Frequency / Amplitude |
| Trial #1                                         | Detected     | 5510.0MHz, -63.0dBm         |
| Trial #2                                         | Detected     | 5524.7MHz, -63.0dBm         |
| Trial #3                                         | Detected     | 5495.3MHz, -63.0dBm         |
| Trial #4                                         | Detected     | 5510.0MHz, -63.0dBm         |
| Trial #5                                         | Detected     | 5524.7MHz, -63.0dBm         |
| Trial #6                                         | NOT Detected | 5495.3MHz, -63.0dBm         |
| Trial #7                                         | Detected     | 5495.3MHz, -63.0dBm         |
| Trial #8                                         | Detected     | 5510.0MHz, -63.0dBm         |
| Trial #9                                         | Detected     | 5524.7MHz, -63.0dBm         |
| Trial #10                                        | NOT Detected | 5495.3MHz, -63.0dBm         |
| Trial #11                                        | Detected     | 5495.3MHz, -63.0dBm         |
| Trial #12                                        | Detected     | 5510.0MHz, -63.0dBm         |
| Trial #13                                        | Detected     | 5523.0MHz, -63.0dBm         |
| Trial #14                                        | Detected     | 5524.7MHz, -63.0dBm         |
| Trial #15                                        | Detected     | 5495.3MHz, -63.0dBm         |
| Trial #16                                        | Detected     | 5510.0MHz, -63.0dBm         |
| Trial #17                                        | Detected     | 5524.7MHz, -63.0dBm         |
| Trial #18                                        | NOT Detected | 5495.3MHz, -63.0dBm         |
| Trial #19                                        | Detected     | 5495.3MHz, -63.0dBm         |
| Trial #20                                        | Detected     | 5510.0MHz, -63.0dBm         |
| Trial #21                                        | Detected     | 5524.7MHz, -63.0dBm         |
| Trial #22                                        | Detected     | 5495.3MHz, -63.0dBm         |
| Trial #23                                        | Detected     | 5500.0MHz, -63.0dBm         |
| Trial #24                                        | Detected     | 5511.0MHz, -63.0dBm         |
| Trial #25                                        | Detected     | 5524.7MHz, -63.0dBm         |
| Trial #26                                        | Detected     | 5495.3MHz, -63.0dBm         |
| Trial #27                                        | Detected     | 5510.0MHz, -63.0dBm         |
| Trial #28                                        | Detected     | 5522.0MHz, -63.0dBm         |
| Trial #29                                        | Detected     | 5524.7MHz, -63.0dBm         |
| Trial #30                                        | Detected     | 5495.3MHz, -63.0dBm         |

| Table 55 - Long Sequence Waveform Trial#1 (Detected) 40 MHz |          |                  |             |                      |                      |                |
|-------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                     | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                           | 3        | 89.3             | 9           | 1276.0               | 1197.0               | 0.586815       |
| 2                                                           | 3        | 53.9             | 8           | 1483.0               | 1668.0               | 1.136295       |
| 3                                                           | 1        | 98.2             | 16          | -                    | -                    | 1.870398       |
| 4                                                           | 2        | 84.6             | 20          | 1590.0               | -                    | 2.250245       |
| 5                                                           | 2        | 70.1             | 20          | 1007.0               | -                    | 2.974587       |
| 6                                                           | 2        | 53.6             | 7           | 1738.0               | -                    | 4.193903       |
| 7                                                           | 1        | 88.2             | 16          | -                    | -                    | 4.392855       |
| 8                                                           | 1        | 86.3             | 16          | -                    | -                    | 5.580622       |
| 9                                                           | 3        | 55.0             | 16          | 1128.0               | 1869.0               | 5.959171       |
| 10                                                          | 2        | 98.6             | 10          | 1681.0               | -                    | 6.462192       |
| 11                                                          | 2        | 75.0             | 5           | 1575.0               | -                    | 7.206512       |
| 12                                                          | 2        | 58.5             | 15          | 1970.0               | -                    | 8.048094       |
| 13                                                          | 2        | 97.4             | 8           | 1387.0               | -                    | 8.501823       |
| 14                                                          | 1        | 81.9             | 6           | -                    | -                    | 9.708109       |
| 15                                                          | 2        | 66.6             | 15          | 1346.0               | -                    | 10.098242      |
| 16                                                          | 2        | 89.9             | 16          | 1823.0               | -                    | 11.233203      |
| 17                                                          | 3        | 72.3             | 9           | 1517.0               | 1155.0               | 11.452727      |

**Table 56 - Long Sequence Waveform Trial#2 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 71.2             | 11          | 1252.0               | -                    | 0.893806       |
| 2       | 2        | 61.8             | 17          | 1017.0               | -                    | 1.835467       |
| 3       | 3        | 69.1             | 18          | 1707.0               | 1058.0               | 2.635852       |
| 4       | 3        | 74.2             | 18          | 1023.0               | 1651.0               | 3.071216       |
| 5       | 2        | 68.5             | 14          | 1933.0               | -                    | 4.280481       |
| 6       | 2        | 90.1             | 14          | 1760.0               | -                    | 5.270766       |
| 7       | 1        | 90.2             | 17          | -                    | -                    | 6.414861       |
| 8       | 1        | 94.3             | 9           | -                    | -                    | 6.703901       |
| 9       | 1        | 89.1             | 17          | -                    | -                    | 8.265339       |
| 10      | 1        | 83.4             | 8           | -                    | -                    | 8.873753       |
| 11      | 2        | 73.4             | 6           | 1869.0               | -                    | 9.559631       |
| 12      | 2        | 83.6             | 17          | 1391.0               | -                    | 10.882819      |
| 13      | 2        | 89.3             | 14          | 1690.0               | -                    | 11.148335      |

**Table 57 - Long Sequence Waveform Trial#3 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 97.8             | 18          | 1274.0               | -                    | 0.188953       |
| 2       | 2        | 67.8             | 7           | 1761.0               | -                    | 1.388701       |
| 3       | 3        | 63.8             | 11          | 1944.0               | 1677.0               | 2.332680       |
| 4       | 3        | 69.5             | 14          | 1123.0               | 1141.0               | 3.382523       |
| 5       | 3        | 96.6             | 9           | 1317.0               | 1564.0               | 4.002556       |
| 6       | 1        | 79.1             | 15          | -                    | -                    | 5.800556       |
| 7       | 2        | 70.4             | 19          | 1399.0               | -                    | 6.021849       |
| 8       | 3        | 99.9             | 19          | 1425.0               | 1314.0               | 7.275129       |
| 9       | 3        | 90.7             | 18          | 1752.0               | 1214.0               | 8.387112       |
| 10      | 1        | 99.6             | 18          | -                    | -                    | 9.608108       |
| 11      | 2        | 53.7             | 13          | 1550.0               | -                    | 10.398122      |
| 12      | 3        | 86.1             | 7           | 1352.0               | 1088.0               | 11.908040      |

**Table 58 - Long Sequence Waveform Trial#4 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 91.6             | 10          | 1906.0               | -                    | 0.275028       |
| 2       | 1        | 64.3             | 6           | -                    | -                    | 0.922171       |
| 3       | 2        | 83.7             | 17          | 1969.0               | -                    | 2.329775       |
| 4       | 2        | 91.2             | 17          | 1186.0               | -                    | 3.359435       |
| 5       | 2        | 71.0             | 16          | 1719.0               | -                    | 3.455068       |
| 6       | 3        | 77.5             | 19          | 1491.0               | 1929.0               | 4.857132       |
| 7       | 2        | 61.5             | 8           | 1350.0               | -                    | 5.248713       |
| 8       | 2        | 80.8             | 17          | 1432.0               | -                    | 6.378565       |
| 9       | 2        | 70.3             | 19          | 1899.0               | -                    | 7.582484       |
| 10      | 2        | 57.3             | 8           | 1996.0               | -                    | 7.864247       |
| 11      | 2        | 84.6             | 15          | 1529.0               | -                    | 8.749806       |
| 12      | 1        | 65.9             | 16          | -                    | -                    | 9.835051       |
| 13      | 3        | 93.8             | 18          | 1542.0               | 1644.0               | 10.942640      |
| 14      | 2        | 53.9             | 18          | 1604.0               | -                    | 11.185010      |

**Table 59 - Long Sequence Waveform Trial#5 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 74.7             | 14          | -                    | -                    | 0.692766       |
| 2       | 2        | 80.4             | 15          | 1867.0               | -                    | 1.214180       |
| 3       | 3        | 60.5             | 5           | 1623.0               | 2000.0               | 2.476597       |
| 4       | 2        | 66.1             | 11          | 1456.0               | -                    | 3.166180       |
| 5       | 1        | 93.8             | 19          | -                    | -                    | 3.925497       |
| 6       | 1        | 54.9             | 16          | -                    | -                    | 5.449177       |
| 7       | 3        | 73.5             | 14          | 1232.0               | 1810.0               | 6.432419       |
| 8       | 2        | 78.3             | 10          | 1766.0               | -                    | 7.302180       |
| 9       | 2        | 58.0             | 7           | 1784.0               | -                    | 7.747128       |
| 10      | 2        | 84.9             | 7           | 1684.0               | -                    | 9.054543       |
| 11      | 1        | 60.6             | 13          | -                    | -                    | 9.506247       |
| 12      | 3        | 85.6             | 18          | 1910.0               | 1860.0               | 10.552152      |
| 13      | 2        | 84.3             | 6           | 1932.0               | -                    | 11.239684      |

**Table 60 - Long Sequence Waveform Trial#6 (NOT Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 92.6             | 5           | 1498.0               | -                    | 0.119093       |
| 2       | 3        | 67.6             | 8           | 1440.0               | 1697.0               | 1.040050       |
| 3       | 1        | 96.1             | 19          | -                    | -                    | 1.496656       |
| 4       | 2        | 76.2             | 10          | 1599.0               | -                    | 2.460794       |
| 5       | 1        | 81.2             | 16          | -                    | -                    | 3.075084       |
| 6       | 2        | 87.4             | 16          | 1154.0               | -                    | 3.186079       |
| 7       | 1        | 68.4             | 12          | -                    | -                    | 4.252592       |
| 8       | 2        | 95.5             | 8           | 1864.0               | -                    | 4.450695       |
| 9       | 3        | 77.2             | 19          | 1081.0               | 1916.0               | 5.637135       |
| 10      | 2        | 74.8             | 11          | 1027.0               | -                    | 6.133749       |
| 11      | 2        | 65.6             | 16          | 1360.0               | -                    | 6.480579       |
| 12      | 2        | 91.1             | 19          | 1989.0               | -                    | 7.156576       |
| 13      | 1        | 86.3             | 14          | -                    | -                    | 7.745213       |
| 14      | 2        | 64.0             | 8           | 1831.0               | -                    | 8.756756       |
| 15      | 2        | 67.8             | 19          | 1159.0               | -                    | 9.069524       |
| 16      | 1        | 53.0             | 12          | -                    | -                    | 9.932487       |
| 17      | 2        | 66.1             | 18          | 1089.0               | -                    | 10.534144      |
| 18      | 2        | 81.1             | 10          | 1467.0               | -                    | 11.352065      |
| 19      | 2        | 65.8             | 18          | 1924.0               | -                    | 11.957155      |

**Table 61 - Long Sequence Waveform Trial#7 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 92.6             | 7           | -                    | -                    | 0.009069       |
| 2       | 2        | 88.0             | 13          | 1237.0               | -                    | 2.092370       |
| 3       | 2        | 97.6             | 12          | 1978.0               | -                    | 2.784875       |
| 4       | 1        | 86.9             | 15          | -                    | -                    | 3.869148       |
| 5       | 2        | 91.9             | 8           | 1086.0               | -                    | 5.640413       |
| 6       | 1        | 53.0             | 6           | -                    | -                    | 6.034619       |
| 7       | 2        | 85.2             | 5           | 1687.0               | -                    | 7.566527       |
| 8       | 2        | 68.7             | 9           | 1106.0               | -                    | 9.048448       |
| 9       | 2        | 95.9             | 13          | 1793.0               | -                    | 10.331729      |
| 10      | 2        | 58.0             | 8           | 1384.0               | -                    | 10.958534      |

**Table 62 - Long Sequence Waveform Trial#8 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 88.2             | 12          | 1231.0               | -                    | 0.263855       |
| 2       | 2        | 51.9             | 10          | 1544.0               | -                    | 0.960298       |
| 3       | 2        | 96.3             | 7           | 1055.0               | -                    | 1.359098       |
| 4       | 1        | 57.3             | 18          | -                    | -                    | 1.965526       |
| 5       | 2        | 77.1             | 14          | 1652.0               | -                    | 2.995961       |
| 6       | 2        | 79.8             | 19          | 1297.0               | -                    | 3.148082       |
| 7       | 3        | 71.3             | 13          | 1361.0               | 1385.0               | 4.188309       |
| 8       | 2        | 68.1             | 14          | 1168.0               | -                    | 4.500188       |
| 9       | 2        | 61.2             | 20          | 1183.0               | -                    | 5.203334       |
| 10      | 2        | 98.3             | 10          | 1286.0               | -                    | 5.401270       |
| 11      | 1        | 59.9             | 13          | -                    | -                    | 6.566043       |
| 12      | 1        | 64.5             | 7           | -                    | -                    | 6.670334       |
| 13      | 2        | 70.8             | 12          | 1420.0               | -                    | 7.447922       |
| 14      | 1        | 86.5             | 16          | -                    | -                    | 7.871587       |
| 15      | 1        | 54.2             | 7           | -                    | -                    | 8.894775       |
| 16      | 1        | 99.1             | 17          | -                    | -                    | 9.248955       |
| 17      | 2        | 54.3             | 14          | 1528.0               | -                    | 9.991608       |
| 18      | 3        | 53.5             | 6           | 1051.0               | 1561.0               | 10.436445      |
| 19      | 2        | 62.4             | 9           | 1816.0               | -                    | 11.163748      |
| 20      | 2        | 69.6             | 15          | 1302.0               | -                    | 11.413955      |

**Table 63 - Long Sequence Waveform Trial#9 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 59.9             | 12          | 1324.0               | -                    | 0.241442       |
| 2       | 2        | 53.9             | 13          | 1531.0               | -                    | 1.386706       |
| 3       | 2        | 61.2             | 7           | 1541.0               | -                    | 3.043399       |
| 4       | 2        | 91.0             | 11          | 1772.0               | -                    | 4.168327       |
| 5       | 3        | 65.2             | 11          | 1111.0               | 1879.0               | 5.236257       |
| 6       | 3        | 59.9             | 19          | 1707.0               | 1083.0               | 5.653891       |
| 7       | 1        | 69.5             | 17          | -                    | -                    | 7.081138       |
| 8       | 1        | 68.7             | 19          | -                    | -                    | 7.862050       |
| 9       | 1        | 74.8             | 19          | -                    | -                    | 9.561702       |
| 10      | 3        | 98.5             | 18          | 1219.0               | 1848.0               | 10.595225      |
| 11      | 1        | 60.4             | 8           | -                    | -                    | 11.725254      |

**Table 64 - Long Sequence Waveform Trial#10 (NOT Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 85.0             | 10          | -                    | -                    | 0.750217       |
| 2       | 2        | 78.1             | 19          | 1506.0               | -                    | 2.339047       |
| 3       | 1        | 96.0             | 7           | -                    | -                    | 3.225996       |
| 4       | 2        | 60.4             | 6           | 1334.0               | -                    | 4.052364       |
| 5       | 2        | 88.2             | 6           | 1333.0               | -                    | 5.643076       |
| 6       | 2        | 98.5             | 12          | 2000.0               | -                    | 7.057412       |
| 7       | 2        | 70.5             | 12          | 1300.0               | -                    | 8.748475       |
| 8       | 3        | 65.5             | 14          | 1363.0               | 1865.0               | 10.472304      |
| 9       | 2        | 94.0             | 18          | 1602.0               | -                    | 11.366314      |

**Table 65 - Long Sequence Waveform Trial#11 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 73.0             | 16          | 1898.0               | 1604.0               | 0.266945       |
| 2       | 2        | 76.9             | 16          | 1587.0               | -                    | 2.201880       |
| 3       | 2        | 86.3             | 20          | 1225.0               | -                    | 2.996076       |
| 4       | 2        | 58.2             | 18          | 1615.0               | -                    | 4.171917       |
| 5       | 2        | 70.1             | 19          | 1730.0               | -                    | 5.403874       |
| 6       | 2        | 91.3             | 6           | 1193.0               | -                    | 6.404435       |
| 7       | 3        | 60.9             | 9           | 1000.0               | 1471.0               | 7.898680       |
| 8       | 3        | 78.2             | 15          | 1272.0               | 1567.0               | 9.043915       |
| 9       | 2        | 90.4             | 6           | 1375.0               | -                    | 9.729502       |
| 10      | 2        | 93.9             | 13          | 1707.0               | -                    | 11.343402      |

**Table 66 - Long Sequence Waveform Trial#12 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 86.1             | 10          | 1735.0               | -                    | 0.492193       |
| 2       | 1        | 55.0             | 9           | -                    | -                    | 1.525768       |
| 3       | 1        | 63.7             | 14          | -                    | -                    | 3.335357       |
| 4       | 3        | 64.3             | 9           | 1490.0               | 1925.0               | 4.572499       |
| 5       | 1        | 64.7             | 17          | -                    | -                    | 6.282905       |
| 6       | 3        | 73.4             | 17          | 1031.0               | 1903.0               | 7.559076       |
| 7       | 2        | 94.4             | 15          | 1903.0               | -                    | 9.021845       |
| 8       | 3        | 76.8             | 5           | 1413.0               | 1284.0               | 10.392459      |
| 9       | 2        | 79.3             | 15          | 1785.0               | -                    | 11.955927      |

**Table 67 - Long Sequence Waveform Trial#13 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 90.4             | 18          | 1845.0               | -                    | 0.188692       |
| 2       | 1        | 93.1             | 11          | -                    | -                    | 1.339145       |
| 3       | 2        | 76.6             | 9           | 1879.0               | -                    | 1.601981       |
| 4       | 2        | 70.4             | 11          | 1148.0               | -                    | 2.699371       |
| 5       | 3        | 50.9             | 5           | 1768.0               | 1582.0               | 3.692424       |
| 6       | 2        | 85.1             | 8           | 1372.0               | -                    | 4.266955       |
| 7       | 2        | 81.4             | 15          | 1049.0               | -                    | 5.034714       |
| 8       | 3        | 71.2             | 15          | 1174.0               | 1327.0               | 5.834638       |
| 9       | 1        | 93.4             | 14          | -                    | -                    | 6.415014       |
| 10      | 1        | 78.4             | 9           | -                    | -                    | 7.067343       |
| 11      | 3        | 85.4             | 9           | 1612.0               | 1445.0               | 7.637248       |
| 12      | 1        | 57.6             | 12          | -                    | -                    | 8.759659       |
| 13      | 1        | 63.0             | 17          | -                    | -                    | 9.625919       |
| 14      | 2        | 64.9             | 14          | 1467.0               | -                    | 9.926939       |
| 15      | 2        | 54.9             | 13          | 1431.0               | -                    | 10.693180      |
| 16      | 2        | 88.1             | 12          | 1850.0               | -                    | 11.340815      |

| <b>Table 68 - Long Sequence Waveform Trial#14 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 3        | 90.8             | 9           | 1488.0               | 1214.0               | 0.230158       |
| 2                                                                   | 2        | 78.4             | 6           | 1171.0               | -                    | 1.029115       |
| 3                                                                   | 3        | 55.9             | 14          | 1622.0               | 1396.0               | 1.574763       |
| 4                                                                   | 2        | 76.0             | 14          | 1645.0               | -                    | 2.339289       |
| 5                                                                   | 2        | 96.0             | 9           | 1417.0               | -                    | 3.018547       |
| 6                                                                   | 3        | 51.4             | 13          | 1564.0               | 1671.0               | 4.391387       |
| 7                                                                   | 1        | 67.6             | 11          | -                    | -                    | 5.061399       |
| 8                                                                   | 2        | 91.5             | 5           | 1373.0               | -                    | 5.541322       |
| 9                                                                   | 2        | 69.6             | 11          | 1421.0               | -                    | 6.428461       |
| 10                                                                  | 2        | 60.3             | 19          | 1515.0               | -                    | 6.991430       |
| 11                                                                  | 3        | 84.4             | 14          | 1598.0               | 1401.0               | 7.963130       |
| 12                                                                  | 2        | 60.3             | 5           | 1240.0               | -                    | 8.563007       |
| 13                                                                  | 3        | 92.0             | 13          | 1021.0               | 1300.0               | 9.496247       |
| 14                                                                  | 2        | 74.2             | 8           | 1316.0               | -                    | 10.322113      |
| 15                                                                  | 2        | 55.8             | 7           | 1548.0               | -                    | 11.238991      |
| 16                                                                  | 2        | 55.6             | 18          | 1314.0               | -                    | 11.485928      |

| <b>Table 69 - Long Sequence Waveform Trial#15 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 1        | 89.8             | 12          | -                    | -                    | 0.270596       |
| 2                                                                   | 2        | 81.6             | 8           | 1202.0               | -                    | 1.654329       |
| 3                                                                   | 2        | 75.4             | 6           | 1250.0               | -                    | 2.703254       |
| 4                                                                   | 2        | 61.5             | 9           | 1407.0               | -                    | 4.567734       |
| 5                                                                   | 2        | 65.1             | 6           | 1134.0               | -                    | 5.188033       |
| 6                                                                   | 1        | 72.7             | 16          | -                    | -                    | 6.612251       |
| 7                                                                   | 3        | 78.9             | 13          | 1048.0               | 1690.0               | 7.414594       |
| 8                                                                   | 2        | 90.9             | 13          | 1208.0               | -                    | 8.899398       |
| 9                                                                   | 3        | 93.6             | 9           | 1475.0               | 1206.0               | 10.324193      |
| 10                                                                  | 2        | 89.1             | 14          | 1401.0               | -                    | 11.223636      |

| <b>Table 70 - Long Sequence Waveform Trial#16 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 2        | 75.1             | 13          | 1846.0               | -                    | 0.485617       |
| 2                                                                   | 3        | 51.8             | 18          | 1155.0               | 1357.0               | 1.225326       |
| 3                                                                   | 2        | 85.1             | 19          | 1415.0               | -                    | 1.817842       |
| 4                                                                   | 1        | 65.2             | 9           | -                    | -                    | 2.289271       |
| 5                                                                   | 2        | 82.1             | 7           | 1273.0               | -                    | 2.924032       |
| 6                                                                   | 1        | 89.3             | 20          | -                    | -                    | 3.630424       |
| 7                                                                   | 1        | 84.5             | 17          | -                    | -                    | 4.007390       |
| 8                                                                   | 1        | 62.1             | 13          | -                    | -                    | 4.479418       |
| 9                                                                   | 2        | 67.2             | 7           | 1426.0               | -                    | 5.376362       |
| 10                                                                  | 1        | 81.7             | 6           | -                    | -                    | 6.120574       |
| 11                                                                  | 2        | 97.2             | 5           | 1630.0               | -                    | 6.599484       |
| 12                                                                  | 2        | 96.4             | 13          | 1102.0               | -                    | 6.963323       |
| 13                                                                  | 2        | 83.4             | 10          | 1202.0               | -                    | 8.124106       |
| 14                                                                  | 3        | 84.3             | 13          | 1246.0               | 1265.0               | 8.502057       |
| 15                                                                  | 2        | 61.1             | 6           | 1686.0               | -                    | 9.062392       |
| 16                                                                  | 2        | 86.4             | 10          | 1725.0               | -                    | 9.545509       |
| 17                                                                  | 1        | 65.7             | 17          | -                    | -                    | 10.204492      |
| 18                                                                  | 2        | 52.6             | 13          | 1572.0               | -                    | 10.775969      |
| 19                                                                  | 1        | 97.8             | 7           | -                    | -                    | 11.392078      |

| <b>Table 71 - Long Sequence Waveform Trial#17 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 2        | 84.1             | 15          | 1573.0               | -                    | 0.255626       |
| 2                                                                   | 2        | 97.9             | 17          | 1410.0               | -                    | 0.853265       |
| 3                                                                   | 1        | 55.7             | 7           | -                    | -                    | 1.742380       |
| 4                                                                   | 1        | 93.4             | 7           | -                    | -                    | 2.322330       |
| 5                                                                   | 1        | 74.7             | 8           | -                    | -                    | 3.134071       |
| 6                                                                   | 3        | 87.5             | 14          | 1215.0               | 1386.0               | 3.913703       |
| 7                                                                   | 2        | 97.6             | 5           | 1115.0               | -                    | 5.124537       |
| 8                                                                   | 2        | 59.5             | 13          | 1598.0               | -                    | 5.840323       |
| 9                                                                   | 2        | 66.0             | 7           | 1518.0               | -                    | 6.387439       |
| 10                                                                  | 2        | 55.4             | 14          | 1602.0               | -                    | 7.307540       |
| 11                                                                  | 2        | 73.4             | 8           | 1375.0               | -                    | 7.934687       |
| 12                                                                  | 2        | 95.1             | 13          | 1280.0               | -                    | 8.802348       |
| 13                                                                  | 2        | 87.3             | 5           | 1396.0               | -                    | 9.462178       |
| 14                                                                  | 2        | 68.9             | 19          | 1472.0               | -                    | 10.166564      |
| 15                                                                  | 2        | 81.5             | 17          | 1790.0               | -                    | 10.643543      |
| 16                                                                  | 3        | 85.1             | 5           | 1324.0               | 1187.0               | 11.949441      |

**Table 72 - Long Sequence Waveform Trial#18 (NOT Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 92.4             | 16          | 1241.0               | -                    | 0.103572       |
| 2       | 2        | 50.0             | 18          | 1359.0               | -                    | 2.313796       |
| 3       | 2        | 93.5             | 13          | 1010.0               | -                    | 4.256692       |
| 4       | 1        | 67.1             | 8           | -                    | -                    | 5.684049       |
| 5       | 2        | 82.3             | 11          | 1182.0               | -                    | 7.105376       |
| 6       | 3        | 80.6             | 15          | 1109.0               | 1470.0               | 7.934758       |
| 7       | 1        | 67.5             | 18          | -                    | -                    | 9.602702       |
| 8       | 2        | 80.5             | 10          | 1921.0               | -                    | 11.375742      |

**Table 73 - Long Sequence Waveform Trial#19 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 88.1             | 18          | 1250.0               | -                    | 0.797639       |
| 2       | 2        | 71.7             | 16          | 1265.0               | -                    | 2.106214       |
| 3       | 2        | 75.9             | 14          | 1818.0               | -                    | 3.346568       |
| 4       | 1        | 62.6             | 7           | -                    | -                    | 4.644689       |
| 5       | 2        | 75.0             | 18          | 1949.0               | -                    | 4.883335       |
| 6       | 3        | 72.9             | 19          | 1588.0               | 1565.0               | 6.940725       |
| 7       | 2        | 89.5             | 8           | 1965.0               | -                    | 8.348101       |
| 8       | 1        | 52.3             | 20          | -                    | -                    | 9.317267       |
| 9       | 3        | 78.4             | 7           | 1556.0               | 1926.0               | 9.601973       |
| 10      | 3        | 98.5             | 7           | 1971.0               | 1275.0               | 11.176407      |

**Table 74 - Long Sequence Waveform Trial#20 (Detected) 40 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 67.8             | 14          | 1283.0               | -                    | 0.170936       |
| 2       | 2        | 78.7             | 12          | 1237.0               | -                    | 0.849057       |
| 3       | 2        | 77.3             | 8           | 1094.0               | -                    | 1.530954       |
| 4       | 2        | 89.6             | 13          | 1289.0               | -                    | 2.285896       |
| 5       | 2        | 70.9             | 7           | 1888.0               | -                    | 3.177821       |
| 6       | 1        | 62.5             | 9           | -                    | -                    | 3.811213       |
| 7       | 1        | 58.1             | 5           | -                    | -                    | 4.190807       |
| 8       | 1        | 64.2             | 9           | -                    | -                    | 5.214967       |
| 9       | 1        | 59.2             | 14          | -                    | -                    | 5.421066       |
| 10      | 1        | 78.9             | 15          | -                    | -                    | 6.011486       |
| 11      | 1        | 83.7             | 15          | -                    | -                    | 7.046297       |
| 12      | 3        | 68.5             | 16          | 1020.0               | 1974.0               | 7.861259       |
| 13      | 1        | 79.2             | 9           | -                    | -                    | 8.202901       |
| 14      | 1        | 81.1             | 16          | -                    | -                    | 9.331892       |
| 15      | 1        | 77.0             | 11          | -                    | -                    | 9.380619       |
| 16      | 1        | 98.7             | 16          | -                    | -                    | 10.478048      |
| 17      | 3        | 81.4             | 6           | 1762.0               | 1764.0               | 10.945322      |
| 18      | 1        | 82.1             | 8           | -                    | -                    | 11.807062      |

| <b>Table 75 - Long Sequence Waveform Trial#21 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 3        | 56.3             | 16          | 1039.0               | 1274.0               | 0.847046       |
| 2                                                                   | 1        | 66.0             | 11          | -                    | -                    | 1.139213       |
| 3                                                                   | 3        | 96.5             | 6           | 1305.0               | 1541.0               | 2.759072       |
| 4                                                                   | 2        | 70.9             | 17          | 1524.0               | -                    | 3.572037       |
| 5                                                                   | 3        | 87.3             | 5           | 1164.0               | 1275.0               | 4.174872       |
| 6                                                                   | 3        | 60.6             | 13          | 1300.0               | 1872.0               | 4.896740       |
| 7                                                                   | 1        | 99.7             | 19          | -                    | -                    | 5.864571       |
| 8                                                                   | 3        | 52.5             | 16          | 1877.0               | 1959.0               | 6.720682       |
| 9                                                                   | 1        | 60.1             | 11          | -                    | -                    | 7.806825       |
| 10                                                                  | 1        | 54.7             | 15          | -                    | -                    | 8.428426       |
| 11                                                                  | 1        | 84.9             | 10          | -                    | -                    | 10.008826      |
| 12                                                                  | 2        | 78.1             | 16          | 1572.0               | -                    | 10.204449      |
| 13                                                                  | 3        | 84.5             | 10          | 1039.0               | 1847.0               | 11.623232      |

| <b>Table 76 - Long Sequence Waveform Trial#22 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 2        | 58.8             | 15          | 1481.0               | -                    | 0.208983       |
| 2                                                                   | 1        | 68.8             | 18          | -                    | -                    | 1.087946       |
| 3                                                                   | 2        | 97.2             | 8           | 1903.0               | -                    | 2.212970       |
| 4                                                                   | 2        | 66.8             | 9           | 1478.0               | -                    | 2.988166       |
| 5                                                                   | 3        | 85.0             | 9           | 1545.0               | 1233.0               | 3.680336       |
| 6                                                                   | 2        | 92.0             | 20          | 1230.0               | -                    | 4.894453       |
| 7                                                                   | 1        | 52.6             | 10          | -                    | -                    | 5.888623       |
| 8                                                                   | 2        | 80.8             | 7           | 1394.0               | -                    | 6.166620       |
| 9                                                                   | 2        | 78.0             | 9           | 1682.0               | -                    | 7.289725       |
| 10                                                                  | 1        | 74.9             | 19          | -                    | -                    | 7.862999       |
| 11                                                                  | 1        | 70.9             | 19          | -                    | -                    | 8.993449       |
| 12                                                                  | 2        | 84.8             | 12          | 1824.0               | -                    | 10.140295      |
| 13                                                                  | 2        | 82.4             | 15          | 1234.0               | -                    | 10.493548      |
| 14                                                                  | 1        | 69.3             | 19          | -                    | -                    | 11.219128      |

| <b>Table 77 - Long Sequence Waveform Trial#23 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 3        | 52.4             | 6           | 1925.0               | 1795.0               | 0.981329       |
| 2                                                                   | 3        | 69.6             | 13          | 1457.0               | 1281.0               | 1.560311       |
| 3                                                                   | 2        | 76.9             | 9           | 1486.0               | -                    | 2.637619       |
| 4                                                                   | 3        | 74.4             | 19          | 1005.0               | 1022.0               | 4.773384       |
| 5                                                                   | 3        | 79.5             | 17          | 1092.0               | 1737.0               | 5.633116       |
| 6                                                                   | 3        | 72.8             | 19          | 1155.0               | 1910.0               | 6.085467       |
| 7                                                                   | 3        | 72.8             | 10          | 1733.0               | 1574.0               | 7.384563       |
| 8                                                                   | 2        | 90.8             | 16          | 1489.0               | -                    | 9.020664       |
| 9                                                                   | 2        | 82.2             | 10          | 1275.0               | -                    | 9.735419       |
| 10                                                                  | 2        | 84.0             | 6           | 1558.0               | -                    | 11.234268      |

| <b>Table 78 - Long Sequence Waveform Trial#24 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 1        | 61.0             | 18          | -                    | -                    | 0.622260       |
| 2                                                                   | 3        | 93.9             | 8           | 1250.0               | 1244.0               | 1.256316       |
| 3                                                                   | 2        | 85.6             | 12          | 1225.0               | -                    | 2.067244       |
| 4                                                                   | 1        | 85.9             | 17          | -                    | -                    | 2.503998       |
| 5                                                                   | 3        | 97.6             | 6           | 1014.0               | 1221.0               | 3.647505       |
| 6                                                                   | 2        | 94.3             | 11          | 1352.0               | -                    | 4.041188       |
| 7                                                                   | 3        | 93.1             | 8           | 1013.0               | 1499.0               | 5.046468       |
| 8                                                                   | 2        | 76.1             | 5           | 1047.0               | -                    | 5.290364       |
| 9                                                                   | 2        | 60.4             | 12          | 1238.0               | -                    | 6.448126       |
| 10                                                                  | 2        | 56.6             | 13          | 1283.0               | -                    | 7.333451       |
| 11                                                                  | 2        | 58.3             | 16          | 1426.0               | -                    | 7.512376       |
| 12                                                                  | 2        | 61.7             | 9           | 1605.0               | -                    | 8.715979       |
| 13                                                                  | 2        | 65.5             | 13          | 1707.0               | -                    | 9.665864       |
| 14                                                                  | 2        | 76.2             | 16          | 1675.0               | -                    | 10.010212      |
| 15                                                                  | 1        | 69.6             | 12          | -                    | -                    | 10.538487      |
| 16                                                                  | 2        | 66.3             | 8           | 1656.0               | -                    | 11.616738      |

| <b>Table 79 - Long Sequence Waveform Trial#25 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 2        | 63.2             | 16          | 1572.0               | -                    | 0.109466       |
| 2                                                                   | 1        | 66.8             | 15          | -                    | -                    | 1.570911       |
| 3                                                                   | 2        | 70.2             | 8           | 1341.0               | -                    | 2.324455       |
| 4                                                                   | 1        | 93.4             | 9           | -                    | -                    | 3.353697       |
| 5                                                                   | 1        | 90.4             | 12          | -                    | -                    | 4.367149       |
| 6                                                                   | 1        | 79.8             | 18          | -                    | -                    | 4.790827       |
| 7                                                                   | 2        | 82.9             | 12          | 1217.0               | -                    | 5.684652       |
| 8                                                                   | 3        | 92.6             | 11          | 1703.0               | 1238.0               | 6.727400       |
| 9                                                                   | 3        | 54.5             | 7           | 1458.0               | 1958.0               | 8.208003       |
| 10                                                                  | 3        | 83.7             | 13          | 1831.0               | 1590.0               | 8.593628       |
| 11                                                                  | 1        | 85.1             | 18          | -                    | -                    | 9.486642       |
| 12                                                                  | 2        | 56.6             | 13          | 1534.0               | -                    | 10.991152      |
| 13                                                                  | 1        | 88.7             | 20          | -                    | -                    | 11.520020      |

| <b>Table 80 - Long Sequence Waveform Trial#26 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 3        | 73.7             | 19          | 1304.0               | 1432.0               | 0.167291       |
| 2                                                                   | 2        | 76.4             | 15          | 1186.0               | -                    | 0.871019       |
| 3                                                                   | 2        | 99.1             | 14          | 1615.0               | -                    | 1.745618       |
| 4                                                                   | 2        | 90.6             | 17          | 1889.0               | -                    | 2.483724       |
| 5                                                                   | 2        | 50.6             | 9           | 1422.0               | -                    | 3.299615       |
| 6                                                                   | 2        | 50.2             | 14          | 1221.0               | -                    | 3.550432       |
| 7                                                                   | 2        | 62.1             | 11          | 1291.0               | -                    | 4.032193       |
| 8                                                                   | 2        | 83.6             | 17          | 1220.0               | -                    | 5.137397       |
| 9                                                                   | 2        | 81.8             | 9           | 1402.0               | -                    | 5.655395       |
| 10                                                                  | 1        | 51.6             | 9           | -                    | -                    | 6.451851       |
| 11                                                                  | 3        | 58.2             | 13          | 1624.0               | 1694.0               | 6.782608       |
| 12                                                                  | 3        | 81.2             | 18          | 1749.0               | 1562.0               | 7.898659       |
| 13                                                                  | 2        | 53.3             | 10          | 1114.0               | -                    | 8.630804       |
| 14                                                                  | 1        | 81.9             | 20          | -                    | -                    | 9.240478       |
| 15                                                                  | 2        | 85.1             | 16          | 1217.0               | -                    | 9.389234       |
| 16                                                                  | 3        | 66.0             | 12          | 1079.0               | 1941.0               | 10.444004      |
| 17                                                                  | 2        | 94.6             | 17          | 1802.0               | -                    | 10.721910      |
| 18                                                                  | 2        | 85.5             | 19          | 1919.0               | -                    | 11.911036      |

| <b>Table 81 - Long Sequence Waveform Trial#27 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 2        | 67.6             | 9           | 1952.0               | -                    | 0.382748       |
| 2                                                                   | 1        | 88.7             | 7           | -                    | -                    | 1.115782       |
| 3                                                                   | 2        | 70.6             | 8           | 1987.0               | -                    | 1.535652       |
| 4                                                                   | 3        | 53.7             | 7           | 1292.0               | 1484.0               | 2.113076       |
| 5                                                                   | 3        | 60.8             | 20          | 1425.0               | 1076.0               | 2.935620       |
| 6                                                                   | 3        | 92.0             | 7           | 1234.0               | 1579.0               | 3.550393       |
| 7                                                                   | 2        | 56.5             | 10          | 1057.0               | -                    | 4.114320       |
| 8                                                                   | 2        | 65.2             | 18          | 1457.0               | -                    | 4.973976       |
| 9                                                                   | 2        | 81.0             | 15          | 1388.0               | -                    | 5.170009       |
| 10                                                                  | 1        | 67.2             | 7           | -                    | -                    | 6.266630       |
| 11                                                                  | 3        | 50.3             | 11          | 1576.0               | 1671.0               | 6.811381       |
| 12                                                                  | 3        | 73.6             | 15          | 1463.0               | 1977.0               | 7.213805       |
| 13                                                                  | 1        | 78.5             | 9           | -                    | -                    | 8.199472       |
| 14                                                                  | 1        | 70.2             | 7           | -                    | -                    | 8.292994       |
| 15                                                                  | 2        | 97.1             | 11          | 1811.0               | -                    | 8.865800       |
| 16                                                                  | 2        | 76.9             | 9           | 1444.0               | -                    | 9.954523       |
| 17                                                                  | 3        | 80.8             | 7           | 1482.0               | 1085.0               | 10.584157      |
| 18                                                                  | 1        | 96.0             | 8           | -                    | -                    | 11.180486      |
| 19                                                                  | 2        | 97.2             | 20          | 1072.0               | -                    | 11.368565      |

| <b>Table 82 - Long Sequence Waveform Trial#28 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 3        | 82.3             | 16          | 1907.0               | 1195.0               | 0.353806       |
| 2                                                                   | 1        | 81.9             | 11          | -                    | -                    | 1.009877       |
| 3                                                                   | 1        | 97.0             | 5           | -                    | -                    | 1.916138       |
| 4                                                                   | 2        | 76.3             | 13          | 1732.0               | -                    | 3.065069       |
| 5                                                                   | 2        | 87.3             | 8           | 1472.0               | -                    | 4.110028       |
| 6                                                                   | 3        | 51.3             | 15          | 1300.0               | 1887.0               | 4.674168       |
| 7                                                                   | 2        | 85.4             | 18          | 1736.0               | -                    | 5.952400       |
| 8                                                                   | 2        | 54.5             | 12          | 1562.0               | -                    | 7.020251       |
| 9                                                                   | 2        | 72.2             | 16          | 1250.0               | -                    | 8.051031       |
| 10                                                                  | 2        | 70.6             | 7           | 1877.0               | -                    | 9.070300       |
| 11                                                                  | 3        | 75.9             | 7           | 1480.0               | 1424.0               | 10.000295      |
| 12                                                                  | 3        | 95.9             | 7           | 1677.0               | 1501.0               | 10.170963      |
| 13                                                                  | 2        | 70.9             | 7           | 1860.0               | -                    | 11.147626      |

| <b>Table 83 - Long Sequence Waveform Trial#29 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 2        | 61.1             | 14          | 1456.0               | -                    | 0.330581       |
| 2                                                                   | 2        | 81.0             | 18          | 1510.0               | -                    | 1.140016       |
| 3                                                                   | 1        | 76.3             | 5           | -                    | -                    | 2.048005       |
| 4                                                                   | 1        | 62.8             | 14          | -                    | -                    | 2.416797       |
| 5                                                                   | 3        | 69.2             | 16          | 1894.0               | 1391.0               | 3.233000       |
| 6                                                                   | 2        | 79.2             | 9           | 1895.0               | -                    | 4.131401       |
| 7                                                                   | 1        | 57.5             | 7           | -                    | -                    | 4.708799       |
| 8                                                                   | 2        | 60.3             | 8           | 1896.0               | -                    | 5.278535       |
| 9                                                                   | 3        | 87.3             | 6           | 1926.0               | 1546.0               | 6.424307       |
| 10                                                                  | 1        | 50.4             | 13          | -                    | -                    | 7.392668       |
| 11                                                                  | 2        | 54.5             | 6           | 1480.0               | -                    | 7.905145       |
| 12                                                                  | 2        | 53.7             | 16          | 1142.0               | -                    | 8.415490       |
| 13                                                                  | 3        | 76.5             | 19          | 1279.0               | 1572.0               | 9.434236       |
| 14                                                                  | 3        | 52.9             | 5           | 1027.0               | 1731.0               | 9.973359       |
| 15                                                                  | 2        | 67.2             | 12          | 1650.0               | -                    | 10.644803      |
| 16                                                                  | 2        | 56.4             | 15          | 1715.0               | -                    | 11.455423      |

| <b>Table 84 - Long Sequence Waveform Trial#30 (Detected) 40 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 1        | 77.1             | 9           | -                    | -                    | 0.393073       |
| 2                                                                   | 2        | 54.0             | 8           | 1660.0               | -                    | 1.156386       |
| 3                                                                   | 3        | 86.4             | 17          | 1923.0               | 1130.0               | 2.449761       |
| 4                                                                   | 2        | 99.0             | 6           | 1329.0               | -                    | 3.621710       |
| 5                                                                   | 2        | 72.1             | 9           | 1615.0               | -                    | 4.495851       |
| 6                                                                   | 2        | 92.0             | 5           | 1087.0               | -                    | 4.761335       |
| 7                                                                   | 1        | 90.9             | 12          | -                    | -                    | 5.605558       |
| 8                                                                   | 3        | 84.5             | 11          | 1076.0               | 1108.0               | 7.378418       |
| 9                                                                   | 2        | 95.1             | 18          | 1032.0               | -                    | 7.618759       |
| 10                                                                  | 3        | 75.1             | 6           | 1425.0               | 1636.0               | 8.760641       |
| 11                                                                  | 1        | 62.4             | 6           | -                    | -                    | 9.337392       |
| 12                                                                  | 1        | 60.6             | 10          | -                    | -                    | 11.024702      |
| 13                                                                  | 3        | 79.9             | 13          | 1103.0               | 1768.0               | 11.374479      |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1                                                              | 9                | 1.0                 | 333.0    | Yes      | 5528.0MHz,<br>-63.0dBm      | Hop sequence: 5311, 5708, 5473, 5319, 5544, 5338, 5366, 5499, 5518, 5664, 5368, 5386, 5554, 5595, 5279, 5698, 5678, 5538, 5671, 5271, 5318, 5353, 5441, 5515, 5270, 5377, 5707, 5615, 5683, 5503, 5537, 5253, 5422, 5381, 5719, 5706, 5303, 5387, 5425, 5709, 5573, 5429, 5268, 5617, 5509, 5400, 5677, 5550, 5286, 5420, 5604, 5440, 5529, 5427, 5646, 5453, 5281, 5257, 5345, 5287, 5327, 5321, 5716, 5437, 5508, 5375, 5484, 5357, 5510, 5514, 5458, 5460, 5293, 5504, 5411, 5477, 5669, 5426, 5658, 5593, 5539, 5419, 5557, 5613, 5603, 5699, 5656, 5542, 5579, 5680, 5405, 5466, 5496, 5582, 5495, 5403, 5415, 5647, 5448, 5505 (13 hits) (09/08/2015 06:12:09 PM) |
| 2                                                              | 9                | 1.0                 | 333.0    | Yes      | 5529.0MHz,<br>-63.0dBm      | Hop sequence: 5301, 5541, 5725, 5543, 5578, 5401, 5418, 5664, 5407, 5387, 5531, 5623, 5459, 5447, 5382, 5364, 5320, 5265, 5458, 5465, 5421, 5302, 5411, 5296, 5660, 5466, 5479, 5261, 5431, 5394, 5416, 5434, 5699, 5719, 5444, 5343, 5452, 5588, 5496, 5307, 5700, 5463, 5478, 5471, 5439, 5308, 5305, 5530, 5693, 5272, 5692, 5618, 5651, 5357, 5537, 5293, 5675, 5640, 5680, 5617, 5678, 5396, 5718, 5436, 5482, 5713, 5393, 5355, 5604, 5370, 5654, 5294, 5348, 5631, 5456, 5666, 5279, 5304, 5270, 5629, 5701, 5521, 5603, 5318, 5470, 5291, 5563, 5498, 5558, 5556, 5266, 5665, 5505, 5366, 5557, 5716, 5572, 5532, 5600, 5351 (4 hits) (09/08/2015 06:12:23 PM)  |
| 3                                                              | 9                | 1.0                 | 333.0    | Yes      | 5491.0MHz,<br>-63.0dBm      | Hop sequence: 5574, 5484, 5541, 5538, 5708, 5633, 5626, 5509, 5585, 5692, 5707, 5343, 5487, 5380, 5445, 5300, 5345, 5377, 5369, 5449, 5605, 5279, 5255, 5395, 5697, 5297, 5413, 5455, 5308, 5475, 5353, 5348, 5492, 5620, 5608, 5358, 5651, 5496, 5295, 5672, 5722, 5669, 5676, 5471, 5291, 5447, 5639, 5270, 5724, 5422, 5293, 5277, 5688, 5462, 5363, 5578, 5381, 5640, 5645, 5686, 5325, 5679, 5598, 5685, 5440, 5437, 5303, 5553, 5480, 5565, 5581, 5485, 5551, 5694, 5632, 5663, 5675, 5364, 5287, 5399, 5337, 5387, 5571, 5573, 5550, 5401, 5689, 5267, 5354, 5721, 5615, 5582, 5315, 5531, 5558, 5331, 5610, 5628, 5547, 5505 (4 hits) (09/08/2015 06:12:37 PM)  |
| 4                                                              | 9                | 1.0                 | 333.0    | Yes      | 5492.0MHz,<br>-63.0dBm      | Hop sequence: 5459, 5704, 5723, 5501, 5510, 5638, 5383, 5273, 5266, 5639, 5518, 5658, 5712, 5499, 5420, 5275, 5356, 5398, 5384, 5447, 5672,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                |                  |                     |          |          |                             | 5582, 5608, 5692, 5322, 5690, 5463, 5497, 5332, 5556, 5342, 5657, 5605, 5397, 5550, 5580, 5589, 5506, 5281, 5539, 5368, 5465, 5485, 5713, 5443, 5598, 5297, 5294, 5376, 5318, 5566, 5422, 5487, 5296, 5585, 5396, 5280, 5725, 5460, 5636, 5567, 5683, 5364, 5676, 5277, 5366, 5324, 5256, 5621, 5557, 5472, 5285, 5333, 5446, 5442, 5458, 5416, 5597, 5595, 5678, 5622, 5317, 5379, 5655, 5425, 5409, 5500, 5435, 5525, 5719, 5569, 5310, 5331, 5358, 5401, 5405, 5537, 5515, 5623, 5479 (9 hits) (09/08/2015 06:12:50 PM)                                                                                                                                             |
| 5                                                              | 9                | 1.0                 | 333.0    | Yes      | 5493.0MHz, -63.0dBm         | Hop sequence: 5548, 5603, 5470, 5428, 5312, 5401, 5341, 5266, 5544, 5468, 5604, 5720, 5315, 5610, 5679, 5620, 5598, 5399, 5612, 5554, 5501, 5269, 5481, 5285, 5488, 5615, 5659, 5318, 5371, 5563, 5654, 5702, 5383, 5694, 5555, 5545, 5382, 5682, 5490, 5308, 5633, 5538, 5645, 5651, 5642, 5346, 5674, 5416, 5699, 5313, 5370, 5294, 5332, 5686, 5435, 5683, 5704, 5384, 5666, 5685, 5564, 5695, 5352, 5311, 5342, 5600, 5553, 5257, 5515, 5409, 5638, 5309, 5282, 5714, 5437, 5661, 5360, 5589, 5693, 5706, 5444, 5703, 5284, 5636, 5358, 5376, 5520, 5314, 5624, 5271, 5569, 5483, 5461, 5299, 5480, 5290, 5474, 5459, 5539, 5491 (4 hits) (09/08/2015 06:13:04 PM) |
| 6                                                              | 9                | 1.0                 | 333.0    | Yes      | 5494.0MHz, -63.0dBm         | Hop sequence: 5638, 5629, 5407, 5330, 5626, 5709, 5614, 5699, 5471, 5302, 5488, 5552, 5575, 5367, 5685, 5712, 5577, 5350, 5551, 5526, 5487, 5599, 5404, 5544, 5431, 5692, 5268, 5250, 5624, 5285, 5654, 5363, 5627, 5505, 5476, 5584, 5498, 5316, 5300, 5549, 5275, 5542, 5279, 5611, 5618, 5382, 5662, 5485, 5362, 5389, 5440, 5421, 5320, 5588, 5408, 5478, 5660, 5501, 5346, 5695, 5473, 5464, 5668, 5462, 5282, 5356, 5381, 5365, 5370, 5425, 5411, 5312, 5566, 5548, 5273, 5706, 5619, 5357, 5679, 5591, 5607, 5677, 5554, 5398, 5545, 5266, 5373, 5494, 5435, 5567, 5518, 5458, 5622, 5525, 5625, 5652, 5345, 5474, 5256, 5315 (7 hits) (09/08/2015 06:13:18 PM) |
| 7                                                              | 9                | 1.0                 | 333.0    | Yes      | 5495.0MHz, -63.0dBm         | Hop sequence: 5340, 5257, 5366, 5300, 5343, 5441, 5457, 5701, 5259, 5258, 5312, 5625, 5460, 5311, 5363, 5697, 5623, 5446, 5618, 5480, 5516, 5531, 5337, 5361, 5691, 5597, 5482, 5398, 5335, 5658, 5499, 5466, 5598, 5382, 5520, 5653, 5667, 5552, 5267, 5513, 5445, 5419, 5673, 5583, 5484,                                                                                                                                                                                                                                                                                                                                                                            |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                |                  |                     |          |          |                             | 5434, 5647, 5584, 5608, 5610, 5362, 5638, 5401, 5374, 5526, 5456, 5356, 5593, 5575, 5285, 5488, 5390, 5316, 5650, 5490, 5574, 5420, 5695, 5692, 5550, 5503, 5674, 5581, 5717, 5256, 5656, 5344, 5540, 5309, 5535, 5538, 5358, 5380, 5295, 5682, 5600, 5547, 5677, 5485, 5580, 5272, 5402, 5342, 5716, 5640, 5389, 5703, 5679, 5536, 5386 (6 hits) (09/08/2015 06:13:31 PM)                                                                                                                                                                                                                                                                                              |
| 8                                                              | 9                | 1.0                 | 333.0    | Yes      | 5496.0MHz, -63.0dBm         | Hop sequence: 5523, 5503, 5275, 5259, 5387, 5325, 5305, 5250, 5509, 5617, 5497, 5301, 5264, 5501, 5439, 5551, 5687, 5429, 5370, 5521, 5508, 5541, 5656, 5709, 5293, 5667, 5257, 5343, 5691, 5281, 5375, 5396, 5651, 5326, 5637, 5634, 5355, 5377, 5669, 5652, 5394, 5596, 5435, 5662, 5694, 5695, 5507, 5631, 5719, 5356, 5389, 5608, 5401, 5583, 5276, 5271, 5332, 5721, 5636, 5290, 5591, 5531, 5601, 5582, 5659, 5542, 5533, 5322, 5392, 5350, 5278, 5602, 5418, 5324, 5568, 5381, 5336, 5334, 5346, 5552, 5384, 5575, 5284, 5460, 5331, 5480, 5671, 5621, 5462, 5300, 5402, 5495, 5415, 5557, 5494, 5269, 5421, 5528, 5573, 5676 (11 hits) (09/08/2015 06:13:44 PM) |
| 9                                                              | 9                | 1.0                 | 333.0    | Yes      | 5497.0MHz, -63.0dBm         | Hop sequence: 5441, 5489, 5690, 5632, 5649, 5409, 5398, 5553, 5448, 5382, 5435, 5295, 5621, 5477, 5349, 5566, 5338, 5661, 5466, 5313, 5385, 5400, 5533, 5416, 5555, 5608, 5693, 5620, 5607, 5350, 5296, 5662, 5651, 5308, 5517, 5682, 5724, 5534, 5298, 5475, 5619, 5713, 5676, 5337, 5260, 5598, 5268, 5592, 5321, 5603, 5436, 5422, 5402, 5403, 5507, 5654, 5253, 5636, 5387, 5502, 5465, 5597, 5348, 5549, 5590, 5317, 5722, 5538, 5705, 5397, 5461, 5375, 5258, 5384, 5520, 5630, 5394, 5359, 5364, 5425, 5512, 5331, 5625, 5499, 5369, 5627, 5709, 5718, 5365, 5720, 5363, 5723, 5708, 5575, 5516, 5702, 5417, 5622, 5356, 5370 (7 hits) (09/08/2015 06:13:57 PM)  |
| 10                                                             | 9                | 1.0                 | 333.0    | Yes      | 5498.0MHz, -63.0dBm         | Hop sequence: 5496, 5684, 5616, 5485, 5511, 5631, 5654, 5542, 5591, 5367, 5538, 5339, 5348, 5497, 5252, 5679, 5472, 5564, 5501, 5480, 5429, 5674, 5584, 5276, 5617, 5313, 5414, 5563, 5571, 5498, 5442, 5477, 5331, 5505, 5412, 5719, 5721, 5385, 5383, 5569, 5665, 5704, 5309, 5370, 5692, 5638, 5406, 5547, 5474, 5257, 5437, 5519, 5644, 5471, 5349, 5632, 5390, 5527, 5416, 5274, 5369, 5534, 5678, 5512, 5296, 5529, 5609, 5702, 5284,                                                                                                                                                                                                                             |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                |                  |                     |          |          |                             | 5700, 5310, 5537, 5613, 5614, 5630, 5279, 5466, 5510, 5548, 5643, 5303, 5440, 5476, 5394, 5341, 5711, 5659, 5343, 5637, 5360, 5433, 5646, 5709, 5559, 5619, 5514, 5270, 5444, 5482, 5648 (12 hits) (09/08/2015 06:14:10 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 11                                                             | 9                | 1.0                 | 333.0    | Yes      | 5499.0MHz,<br>-63.0dBm      | Hop sequence: 5546, 5297, 5404, 5708, 5474, 5280, 5660, 5470, 5650, 5509, 5629, 5528, 5471, 5258, 5384, 5663, 5407, 5287, 5560, 5391, 5717, 5441, 5681, 5654, 5304, 5680, 5487, 5274, 5308, 5442, 5282, 5428, 5424, 5385, 5261, 5563, 5473, 5544, 5490, 5427, 5564, 5540, 5352, 5694, 5621, 5398, 5615, 5397, 5388, 5707, 5259, 5562, 5329, 5254, 5597, 5534, 5626, 5571, 5446, 5448, 5690, 5447, 5518, 5716, 5465, 5342, 5538, 5595, 5529, 5596, 5298, 5255, 5685, 5599, 5483, 5657, 5655, 5724, 5511, 5382, 5475, 5577, 5273, 5412, 5535, 5457, 5325, 5656, 5545, 5683, 5703, 5433, 5438, 5444, 5636, 5351, 5644, 5251, 5252, 5533 (5 hits) (09/08/2015 06:14:24 PM) |
| 12                                                             | 9                | 1.0                 | 333.0    | Yes      | 5500.0MHz,<br>-63.0dBm      | Hop sequence: 5675, 5395, 5451, 5681, 5501, 5687, 5424, 5449, 5603, 5369, 5624, 5486, 5493, 5378, 5664, 5541, 5565, 5434, 5580, 5408, 5261, 5492, 5430, 5443, 5602, 5697, 5591, 5659, 5297, 5281, 5712, 5415, 5336, 5599, 5683, 5700, 5363, 5722, 5337, 5571, 5325, 5396, 5605, 5586, 5377, 5412, 5459, 5346, 5342, 5715, 5612, 5533, 5527, 5549, 5508, 5383, 5696, 5421, 5645, 5295, 5310, 5575, 5286, 5312, 5611, 5266, 5547, 5448, 5305, 5592, 5665, 5495, 5323, 5489, 5650, 5413, 5445, 5534, 5557, 5705, 5253, 5667, 5475, 5682, 5641, 5669, 5476, 5517, 5296, 5376, 5614, 5462, 5693, 5355, 5485, 5422, 5568, 5703, 5470, 5536 (7 hits) (09/08/2015 06:15:00 PM) |
| 13                                                             | 9                | 1.0                 | 333.0    | Yes      | 5501.0MHz,<br>-63.0dBm      | Hop sequence: 5405, 5714, 5304, 5467, 5681, 5565, 5723, 5275, 5544, 5441, 5265, 5515, 5669, 5689, 5690, 5255, 5615, 5256, 5598, 5268, 5444, 5638, 5263, 5630, 5585, 5322, 5308, 5618, 5521, 5271, 5455, 5258, 5510, 5330, 5674, 5348, 5342, 5261, 5319, 5629, 5306, 5285, 5612, 5534, 5493, 5709, 5497, 5446, 5675, 5361, 5387, 5680, 5687, 5536, 5482, 5293, 5453, 5475, 5395, 5611, 5538, 5473, 5607, 5377, 5660, 5492, 5666, 5619, 5421, 5542, 5282, 5513, 5409, 5543, 5646, 5417, 5704, 5353, 5582, 5626, 5625, 5449, 5596, 5600, 5370, 5436, 5633, 5576, 5260, 5682, 5679, 5411, 5454,                                                                            |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                |                  |                     |          |          |                             | 5364, 5422, 5511, 5269, 5540, 5430, 5695 (8 hits) (09/08/2015 06:15:14 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 14                                                             | 9                | 1.0                 | 333.0    | Yes      | 5502.0MHz,<br>-63.0dBm      | Hop sequence: 5266, 5698, 5316, 5657, 5270, 5579, 5720, 5582, 5439, 5527, 5306, 5598, 5315, 5367, 5371, 5541, 5424, 5404, 5459, 5353, 5591, 5425, 5344, 5379, 5328, 5505, 5610, 5405, 5498, 5540, 5279, 5609, 5366, 5356, 5528, 5575, 5364, 5617, 5595, 5653, 5593, 5362, 5718, 5561, 5312, 5437, 5346, 5283, 5614, 5288, 5427, 5538, 5618, 5349, 5333, 5401, 5282, 5261, 5696, 5252, 5486, 5352, 5710, 5325, 5429, 5514, 5378, 5385, 5674, 5721, 5634, 5399, 5484, 5448, 5492, 5454, 5647, 5639, 5357, 5594, 5559, 5684, 5289, 5599, 5482, 5433, 5702, 5570, 5506, 5474, 5339, 5722, 5644, 5311, 5581, 5619, 5524, 5495, 5299, 5348 (9 hits) (09/08/2015 06:15:30 PM) |
| 15                                                             | 9                | 1.0                 | 333.0    | Yes      | 5503.0MHz,<br>-63.0dBm      | Hop sequence: 5399, 5714, 5567, 5458, 5626, 5456, 5500, 5455, 5484, 5507, 5649, 5662, 5271, 5612, 5658, 5364, 5560, 5306, 5298, 5591, 5620, 5304, 5711, 5594, 5679, 5506, 5531, 5404, 5713, 5706, 5435, 5395, 5372, 5569, 5430, 5422, 5433, 5694, 5690, 5703, 5473, 5280, 5320, 5523, 5349, 5469, 5295, 5275, 5324, 5464, 5290, 5415, 5642, 5360, 5555, 5309, 5369, 5629, 5501, 5446, 5693, 5335, 5542, 5652, 5388, 5345, 5371, 5710, 5289, 5472, 5518, 5288, 5585, 5448, 5385, 5256, 5568, 5365, 5687, 5616, 5376, 5340, 5633, 5253, 5702, 5592, 5368, 5465, 5490, 5462, 5562, 5379, 5397, 5386, 5322, 5441, 5505, 5665, 5717, 5410 (7 hits) (09/08/2015 06:15:47 PM) |
| 16                                                             | 9                | 1.0                 | 333.0    | Yes      | 5504.0MHz,<br>-63.0dBm      | Hop sequence: 5292, 5350, 5435, 5287, 5398, 5304, 5585, 5529, 5475, 5426, 5593, 5343, 5718, 5461, 5471, 5316, 5583, 5272, 5620, 5409, 5649, 5404, 5358, 5411, 5455, 5324, 5590, 5254, 5349, 5673, 5540, 5660, 5500, 5704, 5517, 5401, 5662, 5653, 5430, 5600, 5539, 5388, 5659, 5276, 5417, 5603, 5555, 5689, 5518, 5418, 5253, 5579, 5702, 5654, 5464, 5681, 5630, 5528, 5329, 5299, 5485, 5428, 5452, 5625, 5290, 5367, 5725, 5497, 5663, 5262, 5439, 5580, 5284, 5331, 5294, 5547, 5683, 5400, 5480, 5644, 5723, 5371, 5346, 5437, 5375, 5408, 5588, 5301, 5703, 5678, 5261, 5339, 5372, 5305, 5491, 5658, 5724, 5482, 5462, 5602 (7 hits) (09/08/2015 06:16:02 PM) |
| 17                                                             | 9                | 1.0                 | 333.0    | Yes      | 5505.0MHz,                  | Hop sequence: 5546, 5510, 5663,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                |                  |                     |          |          | -63.0dBm                    | 5313, 5555, 5477, 5574, 5710, 5424, 5288, 5372, 5688, 5344, 5529, 5715, 5381, 5550, 5634, 5504, 5452, 5725, 5636, 5716, 5388, 5488, 5406, 5514, 5673, 5515, 5687, 5447, 5340, 5519, 5662, 5644, 5530, 5448, 5355, 5698, 5704, 5425, 5613, 5415, 5575, 5523, 5611, 5579, 5543, 5267, 5652, 5618, 5293, 5432, 5531, 5563, 5525, 5708, 5593, 5373, 5281, 5292, 5363, 5478, 5607, 5414, 5490, 5548, 5701, 5349, 5658, 5706, 5718, 5382, 5358, 5638, 5620, 5331, 5653, 5326, 5540, 5385, 5623, 5616, 5679, 5306, 5659, 5368, 5484, 5330, 5564, 5308, 5654, 5709, 5436, 5581, 5454, 5501, 5545, 5512, 5554 (10 hits) (09/08/2015 06:16:15 PM)                                 |
| 18                                                             | 9                | 1.0                 | 333.0    | Yes      | 5506.0MHz,<br>-63.0dBm      | Hop sequence: 5640, 5361, 5382, 5558, 5437, 5342, 5656, 5307, 5659, 5591, 5358, 5600, 5507, 5417, 5450, 5365, 5418, 5557, 5289, 5267, 5302, 5620, 5632, 5635, 5279, 5531, 5329, 5518, 5364, 5626, 5674, 5360, 5549, 5574, 5326, 5498, 5314, 5258, 5357, 5703, 5564, 5624, 5585, 5686, 5631, 5637, 5251, 5461, 5520, 5311, 5350, 5575, 5679, 5470, 5452, 5347, 5537, 5444, 5683, 5601, 5335, 5362, 5519, 5324, 5488, 5482, 5285, 5363, 5439, 5273, 5408, 5309, 5451, 5487, 5515, 5567, 5369, 5552, 5410, 5604, 5684, 5555, 5270, 5533, 5543, 5310, 5472, 5694, 5272, 5625, 5277, 5383, 5282, 5548, 5385, 5527, 5524, 5257, 5516, 5313 (9 hits) (09/08/2015 06:16:28 PM)  |
| 19                                                             | 9                | 1.0                 | 333.0    | Yes      | 5507.0MHz,<br>-63.0dBm      | Hop sequence: 5453, 5474, 5594, 5275, 5279, 5492, 5673, 5378, 5355, 5462, 5302, 5524, 5296, 5525, 5323, 5311, 5373, 5523, 5555, 5388, 5721, 5665, 5472, 5488, 5458, 5669, 5556, 5372, 5510, 5460, 5393, 5385, 5335, 5341, 5467, 5667, 5299, 5505, 5338, 5354, 5432, 5420, 5542, 5294, 5423, 5409, 5301, 5402, 5614, 5598, 5285, 5465, 5696, 5512, 5653, 5427, 5705, 5320, 5322, 5424, 5618, 5289, 5535, 5544, 5364, 5480, 5332, 5662, 5254, 5554, 5351, 5681, 5630, 5572, 5522, 5676, 5569, 5499, 5725, 5678, 5295, 5531, 5415, 5591, 5493, 5274, 5709, 5566, 5359, 5628, 5348, 5695, 5538, 5416, 5654, 5312, 5457, 5643, 5718, 5575 (10 hits) (09/08/2015 06:16:41 PM) |
| 20                                                             | 9                | 1.0                 | 333.0    | Yes      | 5508.0MHz,<br>-63.0dBm      | Hop sequence: 5512, 5650, 5641, 5481, 5554, 5373, 5506, 5594, 5702, 5699, 5612, 5477, 5483, 5374, 5548, 5379, 5556, 5441, 5408, 5559, 5387, 5629, 5437, 5712, 5403, 5720, 5336,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                |                  |                     |          |          |                             | 5639, 5368, 5250, 5422, 5311, 5420, 5313, 5642, 5421, 5633, 5298, 5264, 5376, 5466, 5456, 5278, 5384, 5275, 5478, 5605, 5680, 5615, 5525, 5588, 5547, 5614, 5583, 5353, 5679, 5662, 5716, 5354, 5722, 5624, 5640, 5428, 5707, 5528, 5427, 5545, 5678, 5431, 5691, 5565, 5496, 5603, 5505, 5412, 5304, 5321, 5274, 5601, 5674, 5467, 5399, 5607, 5689, 5448, 5517, 5713, 5282, 5546, 5696, 5621, 5498, 5619, 5369, 5626, 5342, 5363, 5638, 5271, 5485 (8 hits) (09/08/2015 06:16:56 PM)                                                                                                                                                                                 |
| 21                                                             | 9                | 1.0                 | 333.0    | Yes      | 5509.0MHz,<br>-63.0dBm      | Hop sequence: 5462, 5527, 5700, 5553, 5316, 5367, 5499, 5644, 5649, 5370, 5694, 5650, 5600, 5686, 5430, 5402, 5689, 5476, 5648, 5371, 5434, 5573, 5696, 5445, 5606, 5338, 5459, 5273, 5683, 5353, 5643, 5255, 5544, 5581, 5663, 5324, 5534, 5592, 5432, 5325, 5656, 5652, 5382, 5510, 5288, 5310, 5605, 5339, 5493, 5620, 5405, 5346, 5561, 5594, 5267, 5604, 5625, 5348, 5467, 5327, 5274, 5509, 5708, 5414, 5701, 5292, 5567, 5426, 5284, 5357, 5435, 5692, 5550, 5477, 5441, 5549, 5354, 5529, 5526, 5720, 5541, 5574, 5429, 5579, 5661, 5558, 5608, 5278, 5400, 5373, 5564, 5326, 5329, 5269, 5314, 5263, 5266, 5664, 5309, 5662 (7 hits) (09/08/2015 06:17:10 PM) |
| 22                                                             | 9                | 1.0                 | 333.0    | Yes      | 5510.0MHz,<br>-63.0dBm      | Hop sequence: 5485, 5278, 5635, 5481, 5582, 5719, 5409, 5605, 5351, 5586, 5512, 5480, 5310, 5376, 5300, 5386, 5683, 5336, 5609, 5606, 5619, 5507, 5704, 5538, 5290, 5615, 5275, 5630, 5629, 5426, 5678, 5327, 5383, 5677, 5694, 5594, 5466, 5391, 5539, 5375, 5421, 5435, 5388, 5515, 5490, 5725, 5622, 5344, 5595, 5617, 5283, 5517, 5352, 5369, 5353, 5487, 5708, 5259, 5372, 5668, 5535, 5264, 5649, 5691, 5541, 5279, 5274, 5471, 5348, 5522, 5628, 5276, 5667, 5479, 5262, 5504, 5613, 5272, 5458, 5267, 5689, 5614, 5424, 5347, 5698, 5534, 5387, 5361, 5670, 5684, 5536, 5428, 5637, 5710, 5494, 5544, 5610, 5309, 5557, 5530 (7 hits) (09/08/2015 06:17:24 PM) |
| 23                                                             | 9                | 1.0                 | 333.0    | Yes      | 5511.0MHz,<br>-63.0dBm      | Hop sequence: 5568, 5278, 5424, 5374, 5479, 5647, 5500, 5259, 5287, 5642, 5452, 5540, 5497, 5372, 5663, 5510, 5530, 5708, 5550, 5699, 5653, 5558, 5582, 5316, 5381, 5697, 5443, 5603, 5601, 5422, 5700, 5411, 5624, 5498, 5343, 5380, 5658, 5572, 5307, 5517, 5520, 5312, 5532, 5447, 5549, 5701, 5691, 5266, 5404, 5684, 5361,                                                                                                                                                                                                                                                                                                                                        |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                |                  |                     |          |          |                             | 5395, 5277, 5462, 5399, 5273, 5667, 5707, 5588, 5436, 5428, 5715, 5286, 5313, 5650, 5499, 5525, 5626, 5685, 5595, 5325, 5720, 5337, 5291, 5581, 5253, 5576, 5709, 5333, 5589, 5360, 5521, 5262, 5637, 5335, 5527, 5597, 5444, 5480, 5694, 5379, 5290, 5450, 5710, 5675, 5265, 5457, 5660, 5604, 5318 (10 hits) (09/08/2015 06:17:55 PM)                                                                                                                                                                                                                                                                                                                                |
| 24                                                             | 9                | 1.0                 | 333.0    | Yes      | 5512.0MHz, -63.0dBm         | Hop sequence: 5338, 5576, 5255, 5471, 5682, 5306, 5369, 5675, 5334, 5258, 5593, 5709, 5326, 5492, 5382, 5660, 5486, 5653, 5577, 5571, 5550, 5373, 5389, 5533, 5365, 5449, 5541, 5698, 5479, 5583, 5590, 5528, 5518, 5297, 5459, 5597, 5377, 5381, 5483, 5344, 5490, 5513, 5601, 5387, 5640, 5554, 5718, 5329, 5691, 5366, 5453, 5348, 5257, 5605, 5289, 5405, 5645, 5683, 5339, 5441, 5312, 5314, 5271, 5360, 5478, 5652, 5696, 5634, 5266, 5268, 5475, 5656, 5424, 5720, 5270, 5672, 5376, 5410, 5414, 5724, 5469, 5349, 5606, 5409, 5433, 5419, 5714, 5654, 5301, 5639, 5315, 5519, 5616, 5699, 5681, 5684, 5371, 5707, 5305, 5399 (5 hits) (09/08/2015 06:18:11 PM) |
| 25                                                             | 9                | 1.0                 | 333.0    | Yes      | 5513.0MHz, -63.0dBm         | Hop sequence: 5651, 5609, 5680, 5674, 5646, 5601, 5356, 5519, 5479, 5258, 5610, 5323, 5475, 5314, 5352, 5458, 5545, 5557, 5404, 5408, 5645, 5565, 5581, 5463, 5411, 5611, 5544, 5706, 5266, 5375, 5606, 5267, 5515, 5309, 5541, 5540, 5683, 5644, 5418, 5513, 5251, 5474, 5704, 5441, 5558, 5569, 5363, 5378, 5670, 5654, 5429, 5488, 5401, 5624, 5472, 5637, 5259, 5254, 5449, 5568, 5440, 5461, 5710, 5438, 5341, 5580, 5392, 5372, 5427, 5476, 5534, 5388, 5562, 5366, 5725, 5533, 5397, 5602, 5257, 5551, 5664, 5344, 5587, 5640, 5508, 5531, 5264, 5335, 5579, 5317, 5698, 5659, 5524, 5572, 5469, 5655, 5681, 5345, 5374, 5412 (5 hits) (09/08/2015 06:18:24 PM) |
| 26                                                             | 9                | 1.0                 | 333.0    | Yes      | 5514.0MHz, -63.0dBm         | Hop sequence: 5347, 5339, 5498, 5682, 5374, 5494, 5591, 5448, 5657, 5568, 5446, 5521, 5575, 5669, 5574, 5356, 5328, 5533, 5683, 5281, 5336, 5723, 5286, 5666, 5513, 5538, 5306, 5264, 5493, 5699, 5621, 5298, 5559, 5367, 5410, 5480, 5554, 5351, 5551, 5364, 5576, 5254, 5626, 5703, 5300, 5311, 5560, 5690, 5677, 5671, 5583, 5595, 5428, 5555, 5299, 5485, 5611, 5442, 5663, 5670, 5707, 5510, 5329, 5373, 5540, 5504, 5341, 5653, 5511, 5719, 5700, 5676, 5561, 5297, 5547,                                                                                                                                                                                        |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                |                  |                     |          |          |                             | 5639, 5265, 5507, 5656, 5466, 5664, 5588, 5278, 5333, 5359, 5453, 5421, 5662, 5386, 5610, 5458, 5725, 5651, 5580, 5726, 5530, 5251, 5445, 5606, 5250 (9 hits) (09/08/2015 06:18:37 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 27                                                             | 9                | 1.0                 | 333.0    | Yes      | 5515.0MHz,<br>-63.0dBm      | Hop sequence: 5699, 5350, 5355, 5340, 5530, 5631, 5332, 5725, 5585, 5499, 5712, 5255, 5519, 5573, 5532, 5503, 5704, 5498, 5443, 5346, 5692, 5679, 5316, 5328, 5474, 5493, 5566, 5662, 5557, 5627, 5655, 5453, 5491, 5723, 5710, 5587, 5677, 5560, 5327, 5505, 5341, 5648, 5422, 5412, 5376, 5482, 5283, 5258, 5583, 5510, 5400, 5251, 5273, 5568, 5693, 5337, 5432, 5696, 5661, 5563, 5362, 5691, 5688, 5408, 5572, 5386, 5580, 5694, 5533, 5276, 5289, 5281, 5359, 5368, 5654, 5675, 5333, 5371, 5365, 5398, 5618, 5695, 5293, 5380, 5542, 5674, 5650, 5488, 5481, 5269, 5579, 5506, 5304, 5325, 5724, 5697, 5429, 5410, 5437, 5500 (10 hits) (09/08/2015 06:18:50 PM) |
| 28                                                             | 9                | 1.0                 | 333.0    | Yes      | 5516.0MHz,<br>-63.0dBm      | Hop sequence: 5369, 5629, 5348, 5433, 5345, 5354, 5623, 5373, 5704, 5560, 5510, 5531, 5459, 5412, 5499, 5689, 5581, 5532, 5567, 5667, 5254, 5261, 5511, 5687, 5470, 5714, 5473, 5677, 5613, 5454, 5582, 5312, 5594, 5443, 5417, 5507, 5559, 5367, 5526, 5656, 5512, 5693, 5513, 5327, 5634, 5281, 5608, 5405, 5255, 5441, 5284, 5435, 5277, 5703, 5456, 5259, 5445, 5292, 5597, 5419, 5396, 5539, 5356, 5601, 5570, 5552, 5675, 5529, 5631, 5376, 5642, 5493, 5308, 5716, 5575, 5413, 5379, 5547, 5262, 5364, 5250, 5633, 5684, 5380, 5455, 5545, 5641, 5315, 5524, 5394, 5458, 5391, 5430, 5363, 5333, 5331, 5620, 5557, 5332, 5290 (10 hits) (09/08/2015 06:19:05 PM) |
| 29                                                             | 9                | 1.0                 | 333.0    | Yes      | 5517.0MHz,<br>-63.0dBm      | Hop sequence: 5620, 5715, 5352, 5608, 5444, 5523, 5667, 5450, 5584, 5612, 5288, 5650, 5411, 5503, 5429, 5495, 5355, 5533, 5316, 5369, 5621, 5345, 5561, 5688, 5619, 5613, 5497, 5452, 5433, 5302, 5685, 5447, 5543, 5633, 5589, 5567, 5702, 5679, 5422, 5678, 5382, 5420, 5381, 5586, 5441, 5625, 5328, 5531, 5301, 5313, 5556, 5526, 5491, 5682, 5470, 5692, 5718, 5509, 5548, 5473, 5440, 5413, 5342, 5457, 5394, 5407, 5502, 5380, 5634, 5494, 5499, 5458, 5338, 5358, 5605, 5546, 5410, 5449, 5663, 5478, 5637, 5630, 5378, 5414, 5723, 5364, 5550, 5251, 5580, 5453, 5439, 5594, 5481, 5285, 5595, 5472, 5367, 5601, 5724,                                         |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                |                  |                     |          |          |                             | 5513 (11 hits) (09/08/2015 06:19:18 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 30                                                             | 9                | 1.0                 | 333.0    | Yes      | 5518.0MHz,<br>-63.0dBm      | Hop sequence: 5288, 5635, 5334, 5271, 5642, 5553, 5580, 5295, 5559, 5385, 5300, 5499, 5618, 5606, 5447, 5348, 5686, 5711, 5610, 5444, 5420, 5440, 5525, 5372, 5394, 5726, 5715, 5689, 5347, 5458, 5467, 5628, 5488, 5279, 5588, 5579, 5666, 5582, 5637, 5446, 5609, 5567, 5356, 5277, 5382, 5571, 5645, 5428, 5292, 5482, 5291, 5557, 5522, 5529, 5321, 5712, 5299, 5593, 5437, 5706, 5722, 5380, 5441, 5625, 5297, 5411, 5703, 5566, 5389, 5463, 5587, 5359, 5310, 5684, 5696, 5461, 5673, 5373, 5483, 5574, 5369, 5707, 5624, 5531, 5424, 5687, 5570, 5401, 5478, 5558, 5352, 5367, 5308, 5491, 5427, 5698, 5672, 5619, 5374, 5261 (5 hits) (09/08/2015 06:19:37 PM) |
| 31                                                             | 9                | 1.0                 | 333.0    | Yes      | 5519.0MHz,<br>-63.0dBm      | Hop sequence: 5512, 5487, 5581, 5617, 5599, 5433, 5575, 5274, 5434, 5429, 5725, 5316, 5653, 5711, 5364, 5537, 5336, 5468, 5281, 5352, 5347, 5641, 5669, 5373, 5561, 5385, 5492, 5684, 5283, 5456, 5621, 5475, 5597, 5689, 5392, 5659, 5538, 5496, 5398, 5610, 5311, 5589, 5715, 5250, 5588, 5508, 5388, 5387, 5501, 5356, 5683, 5406, 5304, 5351, 5255, 5702, 5528, 5695, 5539, 5718, 5490, 5348, 5279, 5376, 5531, 5613, 5648, 5663, 5350, 5420, 5315, 5704, 5330, 5687, 5534, 5442, 5447, 5696, 5670, 5375, 5412, 5716, 5459, 5291, 5578, 5495, 5341, 5551, 5480, 5340, 5466, 5307, 5656, 5553, 5713, 5372, 5405, 5513, 5328, 5678 (8 hits) (09/08/2015 06:19:49 PM) |
| 32                                                             | 9                | 1.0                 | 333.0    | Yes      | 5520.0MHz,<br>-63.0dBm      | Hop sequence: 5298, 5553, 5704, 5648, 5552, 5682, 5488, 5330, 5421, 5317, 5326, 5564, 5442, 5319, 5644, 5254, 5609, 5533, 5580, 5473, 5512, 5520, 5414, 5312, 5637, 5264, 5521, 5695, 5536, 5507, 5449, 5703, 5352, 5570, 5626, 5723, 5623, 5577, 5634, 5353, 5283, 5400, 5605, 5647, 5262, 5313, 5397, 5430, 5320, 5477, 5332, 5333, 5336, 5625, 5338, 5435, 5402, 5367, 5501, 5541, 5563, 5251, 5303, 5358, 5392, 5671, 5673, 5722, 5581, 5674, 5396, 5417, 5259, 5515, 5278, 5618, 5556, 5418, 5457, 5572, 5612, 5555, 5340, 5389, 5573, 5387, 5669, 5568, 5708, 5462, 5508, 5339, 5286, 5261, 5391, 5419, 5665, 5504, 5725, 5375 (8 hits) (09/08/2015 06:20:03 PM) |
| 33                                                             | 9                | 1.0                 | 333.0    | Yes      | 5521.0MHz,<br>-63.0dBm      | Hop sequence: 5618, 5483, 5501, 5500, 5661, 5660, 5366, 5710, 5294,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                |                  |                     |          |          |                             | 5426, 5493, 5724, 5678, 5631, 5326, 5287, 5358, 5266, 5713, 5445, 5411, 5543, 5344, 5277, 5559, 5337, 5674, 5394, 5676, 5642, 5270, 5280, 5667, 5689, 5299, 5412, 5315, 5372, 5388, 5569, 5274, 5604, 5263, 5679, 5396, 5507, 5449, 5544, 5636, 5693, 5721, 5492, 5629, 5351, 5715, 5475, 5418, 5355, 5617, 5345, 5390, 5300, 5702, 5318, 5316, 5405, 5423, 5714, 5321, 5336, 5482, 5415, 5586, 5657, 5257, 5616, 5582, 5371, 5619, 5268, 5622, 5255, 5446, 5352, 5532, 5516, 5551, 5699, 5546, 5612, 5490, 5443, 5427, 5716, 5650, 5448, 5677, 5624, 5602, 5486 (6 hits) (09/08/2015 06:20:18 PM)                                                                      |
| 34                                                             | 9                | 1.0                 | 333.0    | Yes      | 5522.0MHz,<br>-63.0dBm      | Hop sequence: 5581, 5620, 5273, 5604, 5711, 5476, 5606, 5626, 5644, 5377, 5473, 5256, 5492, 5346, 5474, 5602, 5340, 5669, 5561, 5433, 5573, 5301, 5269, 5685, 5427, 5295, 5719, 5496, 5543, 5392, 5568, 5393, 5388, 5283, 5497, 5329, 5409, 5328, 5410, 5684, 5266, 5683, 5305, 5253, 5450, 5490, 5398, 5693, 5663, 5596, 5418, 5385, 5366, 5454, 5544, 5310, 5453, 5414, 5538, 5468, 5421, 5445, 5435, 5472, 5285, 5261, 5609, 5467, 5675, 5631, 5527, 5625, 5597, 5415, 5517, 5395, 5679, 5487, 5475, 5271, 5710, 5300, 5331, 5666, 5430, 5678, 5623, 5279, 5661, 5542, 5461, 5306, 5282, 5278, 5642, 5378, 5709, 5350, 5516, 5520 (7 hits) (09/08/2015 06:20:33 PM)  |
| 35                                                             | 9                | 1.0                 | 333.0    | Yes      | 5523.0MHz,<br>-63.0dBm      | Hop sequence: 5400, 5519, 5284, 5618, 5666, 5406, 5425, 5617, 5337, 5436, 5619, 5474, 5373, 5454, 5282, 5662, 5349, 5380, 5717, 5597, 5366, 5512, 5556, 5360, 5668, 5690, 5610, 5456, 5358, 5320, 5565, 5622, 5574, 5435, 5457, 5560, 5274, 5645, 5258, 5626, 5350, 5532, 5614, 5693, 5352, 5507, 5256, 5658, 5511, 5594, 5718, 5712, 5520, 5490, 5584, 5271, 5535, 5654, 5567, 5396, 5492, 5644, 5676, 5605, 5273, 5514, 5395, 5257, 5632, 5708, 5419, 5529, 5688, 5375, 5657, 5485, 5583, 5483, 5572, 5706, 5465, 5551, 5476, 5661, 5367, 5655, 5697, 5499, 5599, 5649, 5278, 5341, 5541, 5608, 5670, 5525, 5321, 5554, 5332, 5563 (10 hits) (09/08/2015 06:20:47 PM) |
| 36                                                             | 9                | 1.0                 | 333.0    | Yes      | 5524.0MHz,<br>-63.0dBm      | Hop sequence: 5442, 5438, 5634, 5513, 5690, 5673, 5260, 5481, 5378, 5493, 5448, 5619, 5467, 5688, 5359, 5584, 5630, 5719, 5670, 5520, 5649, 5502, 5677, 5550, 5430, 5456, 5617, 5567, 5446, 5724, 5318, 5605, 5319,                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                |                  |                     |          |          |                             | 5281, 5705, 5376, 5624, 5627, 5708, 5283, 5298, 5449, 5265, 5606, 5295, 5575, 5683, 5633, 5274, 5621, 5379, 5506, 5403, 5669, 5725, 5332, 5665, 5569, 5723, 5288, 5290, 5697, 5604, 5660, 5424, 5414, 5399, 5557, 5255, 5703, 5282, 5706, 5392, 5588, 5340, 5387, 5287, 5536, 5548, 5382, 5384, 5648, 5483, 5296, 5409, 5598, 5435, 5393, 5437, 5646, 5563, 5292, 5312, 5357, 5432, 5525, 5331, 5620, 5308, 5486 (6 hits) (09/08/2015 06:21:01 PM)                                                                                                                                                                                                                     |
| 37                                                             | 9                | 1.0                 | 333.0    | Yes      | 5525.0MHz,<br>-63.0dBm      | Hop sequence: 5275, 5488, 5364, 5433, 5340, 5254, 5358, 5384, 5396, 5427, 5532, 5669, 5716, 5546, 5702, 5315, 5382, 5309, 5513, 5407, 5420, 5480, 5686, 5466, 5439, 5312, 5388, 5375, 5718, 5538, 5448, 5611, 5637, 5582, 5498, 5470, 5621, 5338, 5368, 5462, 5285, 5479, 5265, 5601, 5563, 5556, 5487, 5465, 5612, 5707, 5571, 5387, 5329, 5386, 5559, 5474, 5587, 5446, 5647, 5721, 5398, 5642, 5711, 5458, 5492, 5639, 5633, 5671, 5336, 5372, 5276, 5600, 5613, 5632, 5317, 5555, 5330, 5508, 5529, 5252, 5270, 5394, 5286, 5280, 5489, 5263, 5440, 5584, 5442, 5419, 5256, 5274, 5677, 5638, 5689, 5515, 5622, 5665, 5409, 5672 (6 hits) (09/08/2015 06:21:14 PM) |
| 38                                                             | 9                | 1.0                 | 333.0    | Yes      | 5526.0MHz,<br>-63.0dBm      | Hop sequence: 5464, 5494, 5482, 5304, 5269, 5692, 5503, 5631, 5652, 5386, 5475, 5589, 5559, 5628, 5261, 5385, 5313, 5545, 5371, 5708, 5423, 5355, 5614, 5425, 5509, 5664, 5617, 5656, 5356, 5255, 5556, 5551, 5439, 5654, 5349, 5416, 5499, 5337, 5719, 5623, 5300, 5711, 5533, 5721, 5661, 5435, 5396, 5612, 5680, 5704, 5324, 5640, 5414, 5445, 5305, 5500, 5369, 5462, 5468, 5298, 5292, 5616, 5491, 5693, 5290, 5599, 5644, 5600, 5554, 5470, 5560, 5307, 5370, 5567, 5285, 5448, 5340, 5595, 5681, 5317, 5688, 5682, 5343, 5272, 5361, 5314, 5299, 5354, 5331, 5364, 5476, 5592, 5642, 5412, 5457, 5479, 5297, 5362, 5326, 5321 (6 hits) (09/08/2015 06:21:29 PM) |
| 39                                                             | 9                | 1.0                 | 333.0    | Yes      | 5527.0MHz,<br>-63.0dBm      | Hop sequence: 5655, 5623, 5253, 5324, 5366, 5332, 5662, 5298, 5307, 5634, 5722, 5394, 5281, 5432, 5594, 5559, 5589, 5306, 5496, 5262, 5636, 5313, 5603, 5703, 5629, 5323, 5472, 5314, 5669, 5601, 5599, 5330, 5413, 5271, 5536, 5341, 5649, 5529, 5423, 5527, 5327, 5274, 5659, 5520, 5285, 5493, 5251, 5406, 5620, 5482, 5335, 5616, 5515, 5282, 5414, 5356, 5392,                                                                                                                                                                                                                                                                                                    |

| Table 85 - FCC frequency hopping radar (Type 6) Results 40 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                        | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                           |
|                                                                |                  |                     |          |          |                             | 5653, 5551, 5388, 5441, 5706, 5319,<br>5451, 5415, 5675, 5338, 5719, 5533,<br>5542, 5401, 5393, 5363, 5263, 5569,<br>5299, 5591, 5573, 5571, 5477, 5311,<br>5562, 5624, 5714, 5395, 5580, 5692,<br>5378, 5343, 5553, 5696, 5497, 5491,<br>5293, 5499, 5526, 5654, 5269, 5645,<br>5568 (10 hits) (09/08/2015 06:21:44<br>PM) |

**Table 86 - Summary of All Results 80 MHz**

| Waveform Name                        | Pd (%)  | Pd Required (%) | Number of Trials | Status |
|--------------------------------------|---------|-----------------|------------------|--------|
| FCC Short Pulse Radar (Type 1A)      | 100.0 % | 60.0 %          | 15               | PASSED |
| FCC Short Pulse Radar (Type 1B)      | 86.7 %  | 60.0 %          | 15               | PASSED |
| FCC Short Pulse Radar (Type 2)       | 86.7 %  | 60.0 %          | 30               | PASSED |
| FCC Short Pulse Radar (Type 3)       | 90.0 %  | 60.0 %          | 30               | PASSED |
| FCC Short Pulse Radar (Type 4)       | 70.0 %  | 60.0 %          | 30               | PASSED |
| Aggregate of above results           | 86.7 %  | 80.0 %          | 120              | PASSED |
| Long Sequence                        | 80.0 %  | 80.0 %          | 30               | PASSED |
| FCC frequency hopping radar (Type 6) | 92.6 %  | 70.0 %          | 81               | PASSED |

**Table 87 - FCC Short Pulse Radar (Type 1A) Results 80 MHz**

| Trial # | Pulses/Burst | Pulse Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|--------------|------------------|----------|----------|--------------------------|-------------------|
| 1       | 57           | 1.0              | 938.0    | Yes      | 5530.0MHz, -64.0dBm      | Single burst      |
| 2       | 68           | 1.0              | 778.0    | Yes      | 5555.0MHz, -64.0dBm      | Single burst      |
| 3       | 18           | 1.0              | 3066.0   | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 4       | 62           | 1.0              | 858.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 5       | 76           | 1.0              | 698.0    | Yes      | 5509.0MHz, -64.0dBm      | Single burst      |
| 6       | 99           | 1.0              | 538.0    | Yes      | 5531.0MHz, -64.0dBm      | Single burst      |
| 7       | 86           | 1.0              | 618.0    | Yes      | 5569.0MHz, -64.0dBm      | Single burst      |
| 8       | 95           | 1.0              | 558.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 9       | 72           | 1.0              | 738.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 10      | 58           | 1.0              | 918.0    | Yes      | 5496.0MHz, -64.0dBm      | Single burst      |
| 11      | 63           | 1.0              | 838.0    | Yes      | 5517.0MHz, -64.0dBm      | Single burst      |
| 12      | 102          | 1.0              | 518.0    | Yes      | 5550.0MHz, -64.0dBm      | Single burst      |
| 13      | 89           | 1.0              | 598.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 14      | 61           | 1.0              | 878.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 15      | 78           | 1.0              | 678.0    | Yes      | 5509.0MHz, -64.0dBm      | Single burst      |

**Table 88 - FCC Short Pulse Radar (Type 1B) Results 80 MHz**

| Trial # | Pulses/Burst | Pulse Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
|---------|--------------|------------------|----------|----------|--------------------------|-------------------|
| 1       | 25           | 1.0              | 2113.0   | Yes      | 5530.0MHz, -64.0dBm      | Single burst      |
| 2       | 34           | 1.0              | 1575.0   | Yes      | 5553.0MHz, -64.0dBm      | Single burst      |
| 3       | 49           | 1.0              | 1083.0   | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 4       | 30           | 1.0              | 1797.0   | No       | 5490.0MHz, -64.0dBm      | Single burst      |
| 5       | 48           | 1.0              | 1113.0   | No       | 5490.0MHz, -64.0dBm      | Single burst      |
| 6       | 30           | 1.0              | 1818.0   | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 7       | 25           | 1.0              | 2156.0   | Yes      | 5500.0MHz, -64.0dBm      | Single burst      |
| 8       | 40           | 1.0              | 1320.0   | Yes      | 5521.0MHz, -64.0dBm      | Single burst      |
| 9       | 19           | 1.0              | 2845.0   | Yes      | 5545.0MHz, -64.0dBm      | Single burst      |
| 10      | 42           | 1.0              | 1263.0   | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 11      | 21           | 1.0              | 2588.0   | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 12      | 19           | 1.0              | 2833.0   | Yes      | 5498.0MHz, -64.0dBm      | Single burst      |
| 13      | 39           | 1.0              | 1361.0   | Yes      | 5528.0MHz, -64.0dBm      | Single burst      |
| 14      | 25           | 1.0              | 2158.0   | Yes      | 5551.0MHz, -64.0dBm      | Single burst      |
| 15      | 25           | 1.0              | 2163.0   | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |

| Table 89 - FCC Short Pulse Radar (Type 2) Results 80 MHz |                  |                     |          |          |                          |                   |
|----------------------------------------------------------|------------------|---------------------|----------|----------|--------------------------|-------------------|
| Trial #                                                  | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
| 1                                                        | 27               | 2.1                 | 185.0    | Yes      | 5530.0MHz, -64.0dBm      | Single burst      |
| 2                                                        | 27               | 2.9                 | 223.0    | No       | 5570.0MHz, -64.0dBm      | Single burst      |
| 3                                                        | 26               | 3.2                 | 165.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 4                                                        | 28               | 4.3                 | 192.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 5                                                        | 27               | 2.5                 | 162.0    | Yes      | 5493.0MHz, -64.0dBm      | Single burst      |
| 6                                                        | 28               | 2.3                 | 180.0    | Yes      | 5530.0MHz, -64.0dBm      | Single burst      |
| 7                                                        | 28               | 4.7                 | 188.0    | Yes      | 5551.0MHz, -64.0dBm      | Single burst      |
| 8                                                        | 25               | 2.4                 | 191.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 9                                                        | 24               | 1.3                 | 221.0    | No       | 5490.0MHz, -64.0dBm      | Single burst      |
| 10                                                       | 27               | 2.9                 | 230.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 11                                                       | 25               | 2.8                 | 190.0    | Yes      | 5491.0MHz, -64.0dBm      | Single burst      |
| 12                                                       | 23               | 2.5                 | 207.0    | Yes      | 5515.0MHz, -64.0dBm      | Single burst      |
| 13                                                       | 27               | 2.5                 | 173.0    | No       | 5551.0MHz, -64.0dBm      | Single burst      |
| 14                                                       | 24               | 1.0                 | 197.0    | Yes      | 5551.0MHz, -64.0dBm      | Single burst      |
| 15                                                       | 25               | 4.8                 | 226.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 16                                                       | 25               | 2.3                 | 206.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 17                                                       | 26               | 4.3                 | 207.0    | Yes      | 5499.0MHz, -64.0dBm      | Single burst      |
| 18                                                       | 26               | 4.7                 | 188.0    | No       | 5534.0MHz, -64.0dBm      | Single burst      |
| 19                                                       | 27               | 1.5                 | 158.0    | Yes      | 5534.0MHz, -64.0dBm      | Single burst      |
| 20                                                       | 29               | 4.3                 | 213.0    | Yes      | 5557.0MHz, -64.0dBm      | Single burst      |
| 21                                                       | 26               | 4.4                 | 150.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 22                                                       | 24               | 4.7                 | 208.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 23                                                       | 29               | 2.7                 | 152.0    | Yes      | 5500.0MHz, -64.0dBm      | Single burst      |
| 24                                                       | 25               | 4.7                 | 206.0    | Yes      | 5530.0MHz, -64.0dBm      | Single burst      |
| 25                                                       | 27               | 1.8                 | 200.0    | Yes      | 5551.0MHz, -64.0dBm      | Single burst      |
| 26                                                       | 23               | 3.6                 | 174.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 27                                                       | 26               | 1.8                 | 166.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 28                                                       | 26               | 3.6                 | 164.0    | Yes      | 5504.0MHz, -64.0dBm      | Single burst      |
| 29                                                       | 27               | 4.9                 | 194.0    | Yes      | 5539.0MHz, -64.0dBm      | Single burst      |
| 30                                                       | 28               | 4.2                 | 217.0    | Yes      | 5566.0MHz, -64.0dBm      | Single burst      |

| Table 90 - FCC Short Pulse Radar (Type 3) Results 80 MHz |                  |                     |          |          |                          |                   |
|----------------------------------------------------------|------------------|---------------------|----------|----------|--------------------------|-------------------|
| Trial #                                                  | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
| 1                                                        | 18               | 8.0                 | 475.0    | Yes      | 5530.0MHz, -64.0dBm      | Single burst      |
| 2                                                        | 18               | 8.7                 | 282.0    | Yes      | 5561.0MHz, -64.0dBm      | Single burst      |
| 3                                                        | 17               | 8.5                 | 314.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 4                                                        | 18               | 6.6                 | 249.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 5                                                        | 17               | 8.7                 | 365.0    | Yes      | 5508.0MHz, -64.0dBm      | Single burst      |
| 6                                                        | 18               | 9.3                 | 316.0    | Yes      | 5546.0MHz, -64.0dBm      | Single burst      |
| 7                                                        | 16               | 6.6                 | 378.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 8                                                        | 17               | 9.0                 | 435.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 9                                                        | 18               | 6.0                 | 395.0    | Yes      | 5504.0MHz, -64.0dBm      | Single burst      |
| 10                                                       | 17               | 9.3                 | 283.0    | Yes      | 5530.0MHz, -64.0dBm      | Single burst      |
| 11                                                       | 16               | 7.4                 | 438.0    | Yes      | 5559.0MHz, -64.0dBm      | Single burst      |
| 12                                                       | 18               | 6.9                 | 279.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 13                                                       | 17               | 6.3                 | 380.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 14                                                       | 17               | 6.2                 | 303.0    | No       | 5509.0MHz, -64.0dBm      | Single burst      |
| 15                                                       | 18               | 6.3                 | 443.0    | Yes      | 5509.0MHz, -64.0dBm      | Single burst      |
| 16                                                       | 17               | 9.9                 | 430.0    | Yes      | 5539.0MHz, -64.0dBm      | Single burst      |
| 17                                                       | 17               | 8.3                 | 261.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 18                                                       | 17               | 6.1                 | 361.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 19                                                       | 17               | 8.5                 | 318.0    | Yes      | 5493.0MHz, -64.0dBm      | Single burst      |
| 20                                                       | 17               | 7.9                 | 484.0    | Yes      | 5529.0MHz, -64.0dBm      | Single burst      |
| 21                                                       | 16               | 7.6                 | 430.0    | Yes      | 5551.0MHz, -64.0dBm      | Single burst      |
| 22                                                       | 18               | 7.7                 | 329.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 23                                                       | 16               | 8.1                 | 206.0    | No       | 5490.0MHz, -64.0dBm      | Single burst      |
| 24                                                       | 17               | 6.2                 | 290.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 25                                                       | 17               | 8.7                 | 308.0    | Yes      | 5494.0MHz, -64.0dBm      | Single burst      |
| 26                                                       | 16               | 9.5                 | 452.0    | Yes      | 5532.0MHz, -64.0dBm      | Single burst      |
| 27                                                       | 17               | 9.7                 | 269.0    | Yes      | 5561.0MHz, -64.0dBm      | Single burst      |
| 28                                                       | 17               | 8.8                 | 423.0    | No       | 5570.0MHz, -64.0dBm      | Single burst      |
| 29                                                       | 16               | 9.8                 | 254.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 30                                                       | 17               | 6.7                 | 494.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |

| Table 91 - FCC Short Pulse Radar (Type 4) Results 80 MHz |                  |                     |          |          |                          |                   |
|----------------------------------------------------------|------------------|---------------------|----------|----------|--------------------------|-------------------|
| Trial #                                                  | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and level (dBm) | Burst Information |
| 1                                                        | 13               | 19.5                | 288.0    | Yes      | 5530.0MHz, -64.0dBm      | Single burst      |
| 2                                                        | 13               | 19.8                | 465.0    | Yes      | 5566.0MHz, -64.0dBm      | Single burst      |
| 3                                                        | 12               | 14.1                | 221.0    | No       | 5570.0MHz, -64.0dBm      | Single burst      |
| 4                                                        | 14               | 11.6                | 246.0    | No       | 5570.0MHz, -64.0dBm      | Single burst      |
| 5                                                        | 14               | 16.6                | 486.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 6                                                        | 15               | 19.7                | 207.0    | No       | 5490.0MHz, -64.0dBm      | Single burst      |
| 7                                                        | 13               | 16.9                | 292.0    | No       | 5490.0MHz, -64.0dBm      | Single burst      |
| 8                                                        | 13               | 18.2                | 236.0    | No       | 5490.0MHz, -64.0dBm      | Single burst      |
| 9                                                        | 13               | 16.6                | 353.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 10                                                       | 15               | 16.9                | 372.0    | Yes      | 5492.0MHz, -64.0dBm      | Single burst      |
| 11                                                       | 16               | 18.5                | 327.0    | Yes      | 5532.0MHz, -64.0dBm      | Single burst      |
| 12                                                       | 14               | 19.4                | 228.0    | No       | 5557.0MHz, -64.0dBm      | Single burst      |
| 3                                                        | 14               | 14.1                | 479.0    | No       | 5557.0MHz, -64.0dBm      | Single burst      |
| 14                                                       | 15               | 19.5                | 389.0    | Yes      | 5557.0MHz, -64.0dBm      | Single burst      |
| 15                                                       | 14               | 18.1                | 305.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 16                                                       | 15               | 19.2                | 261.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 17                                                       | 16               | 11.4                | 367.0    | Yes      | 5505.0MHz, -64.0dBm      | Single burst      |
| 18                                                       | 14               | 12.0                | 257.0    | No       | 5530.0MHz, -64.0dBm      | Single burst      |
| 19                                                       | 15               | 19.5                | 261.0    | Yes      | 5530.0MHz, -64.0dBm      | Single burst      |
| 20                                                       | 15               | 18.9                | 265.0    | Yes      | 5564.0MHz, -64.0dBm      | Single burst      |
| 21                                                       | 14               | 16.6                | 402.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 22                                                       | 14               | 14.8                | 364.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 23                                                       | 13               | 12.2                | 264.0    | Yes      | 5507.0MHz, -64.0dBm      | Single burst      |
| 24                                                       | 16               | 13.7                | 378.0    | Yes      | 5543.0MHz, -64.0dBm      | Single burst      |
| 25                                                       | 13               | 14.5                | 496.0    | Yes      | 5570.0MHz, -64.0dBm      | Single burst      |
| 26                                                       | 15               | 15.1                | 447.0    | Yes      | 5490.0MHz, -64.0dBm      | Single burst      |
| 27                                                       | 14               | 13.3                | 299.0    | No       | 5506.0MHz, -64.0dBm      | Single burst      |
| 28                                                       | 14               | 17.5                | 266.0    | Yes      | 5506.0MHz, -64.0dBm      | Single burst      |
| 29                                                       | 14               | 16.3                | 264.0    | Yes      | 5528.0MHz, -64.0dBm      | Single burst      |
| 30                                                       | 14               | 17.6                | 432.0    | Yes      | 5550.0MHz, -64.0dBm      | Single burst      |

| <b>Table 92 - Long Sequence Waveform Summary 80 MHz</b> |              |                             |
|---------------------------------------------------------|--------------|-----------------------------|
| Long Sequence Trial                                     | Result       | Radar Frequency / Amplitude |
| Trial #1                                                | NOT Detected | 5530.0MHz, -63.0dBm         |
| Trial #2                                                | Detected     | 5530.0MHz, -63.0dBm         |
| Trial #3                                                | Detected     | 5560.4MHz, -63.0dBm         |
| Trial #4                                                | NOT Detected | 5499.6MHz, -63.0dBm         |
| Trial #5                                                | Detected     | 5499.6MHz, -63.0dBm         |
| Trial #6                                                | NOT Detected | 5530.0MHz, -63.0dBm         |
| Trial #7                                                | Detected     | 5530.0MHz, -63.0dBm         |
| Trial #8                                                | Detected     | 5560.4MHz, -63.0dBm         |
| Trial #9                                                | Detected     | 5499.6MHz, -63.0dBm         |
| Trial #10                                               | Detected     | 5530.0MHz, -63.0dBm         |
| Trial #11                                               | Detected     | 5555.0MHz, -63.0dBm         |
| Trial #12                                               | Detected     | 5560.4MHz, -63.0dBm         |
| Trial #13                                               | Detected     | 5499.6MHz, -63.0dBm         |
| Trial #14                                               | NOT Detected | 5508.0MHz, -63.0dBm         |
| Trial #15                                               | Detected     | 5508.0MHz, -63.0dBm         |
| Trial #16                                               | Detected     | 5545.0MHz, -63.0dBm         |
| Trial #17                                               | Detected     | 5560.4MHz, -63.0dBm         |
| Trial #18                                               | Detected     | 5499.6MHz, -63.0dBm         |
| Trial #19                                               | NOT Detected | 5507.0MHz, -63.0dBm         |
| Trial #20                                               | Detected     | 5507.0MHz, -63.0dBm         |
| Trial #21                                               | Detected     | 5542.0MHz, -63.0dBm         |
| Trial #22                                               | NOT Detected | 5560.4MHz, -63.0dBm         |
| Trial #23                                               | Detected     | 5560.4MHz, -63.0dBm         |
| Trial #24                                               | Detected     | 5499.6MHz, -63.0dBm         |
| Trial #25                                               | Detected     | 5530.0MHz, -63.0dBm         |
| Trial #26                                               | Detected     | 5560.4MHz, -63.0dBm         |
| Trial #27                                               | Detected     | 5499.6MHz, -63.0dBm         |
| Trial #28                                               | Detected     | 5530.0MHz, -63.0dBm         |
| Trial #29                                               | Detected     | 5560.0MHz, -63.0dBm         |
| Trial #30                                               | Detected     | 5560.4MHz, -63.0dBm         |

**Table 93 - Long Sequence Waveform Trial#1 (NOT Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 79.5             | 11          | 1947.0               | -                    | 0.656245       |
| 2       | 2        | 75.6             | 11          | 1063.0               | -                    | 1.251307       |
| 3       | 1        | 95.5             | 17          | -                    | -                    | 1.359833       |
| 4       | 1        | 95.7             | 18          | -                    | -                    | 2.356188       |
| 5       | 2        | 93.9             | 15          | 1446.0               | -                    | 3.300508       |
| 6       | 1        | 81.3             | 18          | -                    | -                    | 3.422005       |
| 7       | 3        | 60.3             | 17          | 1373.0               | 1843.0               | 4.270535       |
| 8       | 2        | 66.5             | 6           | 1903.0               | -                    | 4.724711       |
| 9       | 1        | 53.9             | 10          | -                    | -                    | 5.675195       |
| 10      | 3        | 61.4             | 6           | 1177.0               | 1946.0               | 6.595060       |
| 11      | 3        | 66.9             | 19          | 1868.0               | 1357.0               | 6.745928       |
| 12      | 2        | 91.9             | 19          | 1251.0               | -                    | 7.730001       |
| 13      | 3        | 64.8             | 10          | 1367.0               | 1113.0               | 8.362855       |
| 14      | 3        | 71.5             | 7           | 1892.0               | 1118.0               | 8.750800       |
| 15      | 2        | 85.7             | 15          | 1197.0               | -                    | 9.393929       |
| 16      | 2        | 67.7             | 11          | 1715.0               | -                    | 10.219619      |
| 17      | 3        | 63.7             | 11          | 1745.0               | 1664.0               | 11.080365      |
| 18      | 2        | 97.7             | 14          | 1725.0               | -                    | 11.952791      |

**Table 94 - Long Sequence Waveform Trial#2 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 67.2             | 17          | 1691.0               | -                    | 0.411793       |
| 2       | 2        | 76.6             | 7           | 1329.0               | -                    | 1.365606       |
| 3       | 1        | 69.8             | 18          | -                    | -                    | 1.794029       |
| 4       | 2        | 61.8             | 7           | 1076.0               | -                    | 2.357944       |
| 5       | 3        | 59.8             | 18          | 1616.0               | 1138.0               | 3.043515       |
| 6       | 2        | 54.4             | 13          | 1925.0               | -                    | 4.445677       |
| 7       | 2        | 91.8             | 9           | 1330.0               | -                    | 4.543975       |
| 8       | 3        | 73.8             | 12          | 1679.0               | 1946.0               | 5.989395       |
| 9       | 2        | 80.1             | 18          | 1394.0               | -                    | 6.690538       |
| 10      | 1        | 52.9             | 17          | -                    | -                    | 7.011398       |
| 11      | 1        | 90.3             | 20          | -                    | -                    | 7.583793       |
| 12      | 2        | 77.3             | 19          | 1123.0               | -                    | 8.718925       |
| 13      | 1        | 70.5             | 17          | -                    | -                    | 9.745196       |
| 14      | 2        | 86.5             | 11          | 1565.0               | -                    | 10.439865      |
| 15      | 1        | 96.2             | 13          | -                    | -                    | 10.580024      |
| 16      | 3        | 53.3             | 11          | 1898.0               | 1983.0               | 11.331587      |

**Table 95 - Long Sequence Waveform Trial#3 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 92.8             | 7           | -                    | -                    | 0.872761       |
| 2       | 3        | 93.1             | 12          | 1690.0               | 1138.0               | 1.240325       |
| 3       | 2        | 74.4             | 7           | 1654.0               | -                    | 2.701720       |
| 4       | 2        | 74.9             | 11          | 1024.0               | -                    | 3.907067       |
| 5       | 3        | 84.9             | 12          | 1899.0               | 1696.0               | 4.727159       |
| 6       | 2        | 77.5             | 19          | 1891.0               | -                    | 5.126768       |
| 7       | 2        | 84.2             | 11          | 1709.0               | -                    | 6.629816       |
| 8       | 1        | 94.8             | 13          | -                    | -                    | 7.435939       |
| 9       | 3        | 89.0             | 16          | 1471.0               | 1421.0               | 8.940604       |
| 10      | 3        | 88.3             | 6           | 1927.0               | 1881.0               | 9.112601       |
| 11      | 2        | 60.8             | 12          | 1337.0               | -                    | 10.726839      |
| 12      | 3        | 51.9             | 9           | 1664.0               | 1935.0               | 11.980430      |

**Table 96 - Long Sequence Waveform Trial#4 (NOT Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 52.9             | 8           | 1101.0               | -                    | 1.110992       |
| 2       | 2        | 86.1             | 9           | 1690.0               | -                    | 1.680178       |
| 3       | 1        | 56.2             | 19          | -                    | -                    | 3.503834       |
| 4       | 1        | 87.1             | 18          | -                    | -                    | 4.826822       |
| 5       | 1        | 85.1             | 18          | -                    | -                    | 6.543057       |
| 6       | 3        | 84.6             | 20          | 1574.0               | 1221.0               | 7.329949       |
| 7       | 2        | 64.2             | 10          | 1897.0               | -                    | 8.514686       |
| 8       | 2        | 58.3             | 18          | 1179.0               | -                    | 9.581638       |
| 9       | 1        | 83.5             | 13          | -                    | -                    | 11.088414      |

**Table 97 - Long Sequence Waveform Trial#5 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 72.3             | 18          | 1240.0               | -                    | 0.593188       |
| 2       | 3        | 99.4             | 20          | 1344.0               | 1811.0               | 1.082769       |
| 3       | 1        | 92.6             | 19          | -                    | -                    | 1.648290       |
| 4       | 2        | 68.9             | 5           | 1436.0               | -                    | 2.435328       |
| 5       | 2        | 56.4             | 11          | 1815.0               | -                    | 3.105072       |
| 6       | 3        | 88.7             | 17          | 1899.0               | 1081.0               | 3.909035       |
| 7       | 3        | 50.6             | 15          | 1223.0               | 1153.0               | 4.496708       |
| 8       | 2        | 93.3             | 18          | 1245.0               | -                    | 5.296475       |
| 9       | 2        | 82.8             | 7           | 1819.0               | -                    | 5.497456       |
| 10      | 3        | 54.3             | 10          | 1641.0               | 1090.0               | 6.082697       |
| 11      | 2        | 70.3             | 13          | 1418.0               | -                    | 6.755485       |
| 12      | 2        | 62.7             | 19          | 1843.0               | -                    | 7.440582       |
| 13      | 3        | 64.3             | 12          | 1541.0               | 1920.0               | 8.651413       |
| 14      | 1        | 50.2             | 7           | -                    | -                    | 9.290620       |
| 15      | 3        | 93.1             | 16          | 1316.0               | 1234.0               | 9.448147       |
| 16      | 2        | 94.9             | 8           | 1519.0               | -                    | 10.122664      |
| 17      | 2        | 81.1             | 7           | 1765.0               | -                    | 11.222626      |
| 18      | 2        | 91.9             | 20          | 1293.0               | -                    | 11.815680      |

**Table 98 - Long Sequence Waveform Trial#6 (NOT Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 91.9             | 14          | 1149.0               | -                    | 0.934192       |
| 2       | 1        | 54.5             | 14          | -                    | -                    | 1.551430       |
| 3       | 1        | 61.5             | 8           | -                    | -                    | 2.120145       |
| 4       | 1        | 53.0             | 7           | -                    | -                    | 3.881994       |
| 5       | 3        | 65.6             | 7           | 1405.0               | 1490.0               | 4.603053       |
| 6       | 3        | 58.5             | 6           | 1105.0               | 1826.0               | 5.651311       |
| 7       | 3        | 68.6             | 10          | 1719.0               | 1638.0               | 6.557445       |
| 8       | 1        | 55.3             | 8           | -                    | -                    | 7.923607       |
| 9       | 1        | 59.2             | 8           | -                    | -                    | 8.535539       |
| 10      | 2        | 72.2             | 14          | 1726.0               | -                    | 9.459910       |
| 11      | 3        | 59.3             | 16          | 1639.0               | 1310.0               | 10.317463      |
| 12      | 3        | 83.0             | 7           | 1685.0               | 1235.0               | 11.244011      |

**Table 99 - Long Sequence Waveform Trial#7 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 75.0             | 10          | 1643.0               | 1449.0               | 0.223040       |
| 2       | 2        | 82.5             | 6           | 1433.0               | -                    | 1.550774       |
| 3       | 3        | 51.4             | 19          | 1872.0               | 1435.0               | 1.965895       |
| 4       | 3        | 76.2             | 9           | 1529.0               | 1886.0               | 2.917923       |
| 5       | 2        | 50.3             | 18          | 1155.0               | -                    | 3.757247       |
| 6       | 2        | 57.8             | 13          | 1412.0               | -                    | 4.654445       |
| 7       | 1        | 55.9             | 14          | -                    | -                    | 5.497087       |
| 8       | 1        | 76.4             | 11          | -                    | -                    | 5.665364       |
| 9       | 2        | 56.5             | 10          | 1822.0               | -                    | 6.565056       |
| 10      | 3        | 93.3             | 12          | 1525.0               | 1287.0               | 7.352208       |
| 11      | 1        | 61.0             | 6           | -                    | -                    | 8.752213       |
| 12      | 2        | 52.2             | 19          | 1814.0               | -                    | 8.812580       |
| 13      | 3        | 79.6             | 12          | 1356.0               | 1924.0               | 9.768635       |
| 14      | 1        | 92.7             | 13          | -                    | -                    | 10.606034      |
| 15      | 2        | 85.7             | 15          | 1191.0               | -                    | 11.928286      |

**Table 100 - Long Sequence Waveform Trial#8 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 88.1             | 13          | 1940.0               | -                    | 0.650290       |
| 2       | 2        | 73.4             | 14          | 1085.0               | -                    | 2.003946       |
| 3       | 1        | 61.2             | 13          | -                    | -                    | 3.055039       |
| 4       | 2        | 64.4             | 14          | 1967.0               | -                    | 4.232582       |
| 5       | 2        | 86.5             | 15          | 1027.0               | -                    | 5.193949       |
| 6       | 2        | 80.1             | 10          | 1250.0               | -                    | 6.289780       |
| 7       | 2        | 75.8             | 10          | 1923.0               | -                    | 7.441203       |
| 8       | 2        | 93.0             | 5           | 1892.0               | -                    | 9.413133       |
| 9       | 2        | 78.7             | 14          | 1143.0               | -                    | 10.771249      |
| 10      | 2        | 69.0             | 9           | 1683.0               | -                    | 11.977576      |

| <b>Table 101 - Long Sequence Waveform Trial#9 (Detected) 80 MHz</b> |          |                  |             |                      |                      |                |
|---------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                             | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                   | 3        | 66.2             | 18          | 1131.0               | 1980.0               | 0.359305       |
| 2                                                                   | 3        | 95.9             | 10          | 1881.0               | 1720.0               | 1.273124       |
| 3                                                                   | 2        | 83.8             | 7           | 1804.0               | -                    | 2.102089       |
| 4                                                                   | 1        | 87.6             | 11          | -                    | -                    | 2.412641       |
| 5                                                                   | 1        | 94.6             | 10          | -                    | -                    | 3.793743       |
| 6                                                                   | 2        | 67.2             | 10          | 1185.0               | -                    | 4.112225       |
| 7                                                                   | 3        | 76.2             | 11          | 1708.0               | 1611.0               | 5.147769       |
| 8                                                                   | 2        | 63.0             | 19          | 1421.0               | -                    | 6.351864       |
| 9                                                                   | 2        | 79.8             | 6           | 1139.0               | -                    | 6.730241       |
| 10                                                                  | 2        | 92.4             | 5           | 1501.0               | -                    | 7.639999       |
| 11                                                                  | 1        | 81.3             | 16          | -                    | -                    | 8.114564       |
| 12                                                                  | 2        | 72.2             | 10          | 1158.0               | -                    | 9.459998       |
| 13                                                                  | 1        | 62.4             | 13          | -                    | -                    | 10.032604      |
| 14                                                                  | 3        | 94.9             | 6           | 1941.0               | 1139.0               | 10.585683      |
| 15                                                                  | 3        | 63.3             | 15          | 1116.0               | 1767.0               | 11.680264      |

| <b>Table 102 - Long Sequence Waveform Trial#10 (Detected) 80 MHz</b> |          |                  |             |                      |                      |                |
|----------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                              | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                    | 3        | 69.5             | 18          | 1072.0               | 1257.0               | 0.315567       |
| 2                                                                    | 3        | 54.1             | 7           | 1614.0               | 1955.0               | 1.425296       |
| 3                                                                    | 1        | 89.8             | 17          | -                    | -                    | 2.103412       |
| 4                                                                    | 1        | 50.6             | 7           | -                    | -                    | 2.631249       |
| 5                                                                    | 3        | 82.9             | 11          | 1080.0               | 1964.0               | 3.765060       |
| 6                                                                    | 1        | 50.0             | 10          | -                    | -                    | 4.748418       |
| 7                                                                    | 2        | 91.9             | 16          | 1359.0               | -                    | 5.959365       |
| 8                                                                    | 2        | 91.0             | 16          | 1747.0               | -                    | 6.228147       |
| 9                                                                    | 3        | 58.0             | 19          | 1810.0               | 1947.0               | 6.968025       |
| 10                                                                   | 3        | 75.5             | 7           | 1375.0               | 1197.0               | 8.370057       |
| 11                                                                   | 1        | 58.0             | 7           | -                    | -                    | 9.338059       |
| 12                                                                   | 1        | 61.4             | 15          | -                    | -                    | 9.562204       |
| 13                                                                   | 2        | 86.8             | 11          | 1646.0               | -                    | 11.126789      |
| 14                                                                   | 1        | 96.6             | 10          | -                    | -                    | 11.527012      |

| <b>Table 103 - Long Sequence Waveform Trial#11 (Detected) 80 MHz</b> |          |                  |             |                      |                      |                |
|----------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                              | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                    | 2        | 87.4             | 14          | 1615.0               | -                    | 1.440649       |
| 2                                                                    | 2        | 91.5             | 18          | 1813.0               | -                    | 2.758613       |
| 3                                                                    | 1        | 74.8             | 11          | -                    | -                    | 3.996471       |
| 4                                                                    | 2        | 78.8             | 13          | 1811.0               | -                    | 5.095230       |
| 5                                                                    | 2        | 87.5             | 17          | 1556.0               | -                    | 6.920414       |
| 6                                                                    | 2        | 70.7             | 10          | 1987.0               | -                    | 8.894487       |
| 7                                                                    | 1        | 64.9             | 5           | -                    | -                    | 10.092799      |
| 8                                                                    | 2        | 90.2             | 8           | 1643.0               | -                    | 10.933699      |

**Table 104 - Long Sequence Waveform Trial#12 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 96.9             | 6           | 1036.0               | 1128.0               | 0.106997       |
| 2       | 2        | 64.4             | 15          | 1354.0               | -                    | 1.993497       |
| 3       | 2        | 52.4             | 15          | 1158.0               | -                    | 2.137678       |
| 4       | 1        | 57.9             | 17          | -                    | -                    | 3.556868       |
| 5       | 2        | 64.2             | 14          | 1475.0               | -                    | 4.058052       |
| 6       | 3        | 52.3             | 17          | 1211.0               | 1442.0               | 5.161495       |
| 7       | 3        | 63.1             | 10          | 1010.0               | 1104.0               | 6.614474       |
| 8       | 3        | 91.9             | 12          | 1892.0               | 1714.0               | 7.738552       |
| 9       | 2        | 76.3             | 13          | 1054.0               | -                    | 8.073684       |
| 10      | 1        | 95.7             | 17          | -                    | -                    | 9.272617       |
| 11      | 3        | 52.1             | 17          | 1107.0               | 1302.0               | 10.003827      |
| 12      | 2        | 67.4             | 8           | 1245.0               | -                    | 11.274053      |

**Table 105 - Long Sequence Waveform Trial#13 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 69.5             | 11          | 1700.0               | 1537.0               | 0.618188       |
| 2       | 1        | 85.0             | 7           | -                    | -                    | 1.062566       |
| 3       | 2        | 90.1             | 13          | 1045.0               | -                    | 2.157436       |
| 4       | 2        | 71.9             | 6           | 1667.0               | -                    | 3.164834       |
| 5       | 3        | 87.6             | 11          | 1761.0               | 1673.0               | 4.308829       |
| 6       | 3        | 86.9             | 12          | 1302.0               | 1266.0               | 5.427765       |
| 7       | 3        | 95.6             | 8           | 1527.0               | 1089.0               | 6.676840       |
| 8       | 2        | 56.5             | 18          | 1371.0               | -                    | 7.993285       |
| 9       | 2        | 81.8             | 16          | 1998.0               | -                    | 8.276757       |
| 10      | 2        | 61.2             | 17          | 1727.0               | -                    | 9.861709       |
| 11      | 1        | 50.6             | 9           | -                    | -                    | 10.957036      |
| 12      | 1        | 54.0             | 9           | -                    | -                    | 11.812613      |

**Table 106 - Long Sequence Waveform Trial#14 (NOT Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 64.2             | 12          | 1152.0               | -                    | 0.608578       |
| 2       | 1        | 71.4             | 17          | -                    | -                    | 2.636785       |
| 3       | 1        | 64.2             | 18          | -                    | -                    | 3.214063       |
| 4       | 3        | 86.7             | 10          | 1454.0               | 1122.0               | 4.803855       |
| 5       | 3        | 91.4             | 17          | 1644.0               | 1788.0               | 6.492823       |
| 6       | 2        | 94.9             | 20          | 1499.0               | -                    | 8.146286       |
| 7       | 1        | 55.6             | 20          | -                    | -                    | 10.393278      |
| 8       | 2        | 67.2             | 14          | 1812.0               | -                    | 11.381220      |

**Table 107 - Long Sequence Waveform Trial#15 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 86.3             | 20          | 1397.0               | -                    | 0.503166       |
| 2       | 3        | 98.6             | 17          | 1858.0               | 1996.0               | 1.750895       |
| 3       | 2        | 85.3             | 12          | 1362.0               | -                    | 2.094300       |
| 4       | 1        | 98.8             | 19          | -                    | -                    | 2.824500       |
| 5       | 1        | 81.2             | 19          | -                    | -                    | 4.052604       |
| 6       | 1        | 80.3             | 6           | -                    | -                    | 4.949236       |
| 7       | 3        | 67.7             | 9           | 1179.0               | 1367.0               | 6.173134       |
| 8       | 1        | 67.9             | 8           | -                    | -                    | 7.221774       |
| 9       | 2        | 66.1             | 11          | 1656.0               | -                    | 7.982229       |
| 10      | 2        | 80.4             | 15          | 1179.0               | -                    | 8.843195       |
| 11      | 3        | 89.2             | 13          | 1059.0               | 1791.0               | 10.103700      |
| 12      | 1        | 63.6             | 10          | -                    | -                    | 10.478065      |
| 13      | 3        | 65.8             | 14          | 1223.0               | 1961.0               | 11.403242      |

**Table 108 - Long Sequence Waveform Trial#16 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 92.2             | 11          | -                    | -                    | 0.031318       |
| 2       | 3        | 75.9             | 5           | 1761.0               | 1005.0               | 1.206964       |
| 3       | 1        | 50.8             | 11          | -                    | -                    | 2.487874       |
| 4       | 2        | 90.8             | 15          | 1941.0               | -                    | 2.935962       |
| 5       | 3        | 85.4             | 20          | 1267.0               | 1379.0               | 3.832396       |
| 6       | 2        | 55.2             | 16          | 1531.0               | -                    | 5.114632       |
| 7       | 2        | 78.5             | 18          | 1600.0               | -                    | 5.276936       |
| 8       | 2        | 70.3             | 9           | 1725.0               | -                    | 6.772951       |
| 9       | 2        | 73.5             | 12          | 1308.0               | -                    | 7.580528       |
| 10      | 3        | 55.6             | 11          | 1338.0               | 1291.0               | 7.790112       |
| 11      | 3        | 50.6             | 6           | 1384.0               | 1256.0               | 8.894226       |
| 12      | 2        | 90.3             | 17          | 1398.0               | -                    | 10.105404      |
| 13      | 3        | 99.0             | 11          | 1714.0               | 1440.0               | 10.338695      |
| 14      | 3        | 50.8             | 8           | 1253.0               | 1347.0               | 11.749415      |

**Table 109 - Long Sequence Waveform Trial#17 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 74.4             | 16          | 1655.0               | -                    | 0.876515       |
| 2       | 3        | 74.6             | 15          | 1991.0               | 1064.0               | 2.120497       |
| 3       | 1        | 87.2             | 18          | -                    | -                    | 3.278816       |
| 4       | 3        | 85.4             | 20          | 1686.0               | 1605.0               | 4.742033       |
| 5       | 2        | 93.1             | 15          | 1445.0               | -                    | 6.676271       |
| 6       | 2        | 70.1             | 7           | 1380.0               | -                    | 7.807805       |
| 7       | 3        | 69.4             | 16          | 1929.0               | 1518.0               | 9.777270       |
| 8       | 3        | 64.9             | 7           | 1431.0               | 1562.0               | 10.647186      |

| <b>Table 110 - Long Sequence Waveform Trial#18 (Detected) 80 MHz</b> |          |                  |             |                      |                      |                |
|----------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                              | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                    | 2        | 79.7             | 6           | 1871.0               | -                    | 0.568778       |
| 2                                                                    | 2        | 79.1             | 16          | 1365.0               | -                    | 1.450987       |
| 3                                                                    | 1        | 51.2             | 13          | -                    | -                    | 2.311517       |
| 4                                                                    | 2        | 52.5             | 16          | 1353.0               | -                    | 3.297881       |
| 5                                                                    | 2        | 96.7             | 19          | 1690.0               | -                    | 4.923036       |
| 6                                                                    | 3        | 85.6             | 14          | 1969.0               | 1661.0               | 6.304321       |
| 7                                                                    | 1        | 59.6             | 17          | -                    | -                    | 7.295332       |
| 8                                                                    | 3        | 79.4             | 10          | 1522.0               | 1738.0               | 7.826697       |
| 9                                                                    | 1        | 72.8             | 16          | -                    | -                    | 8.978464       |
| 10                                                                   | 2        | 88.3             | 13          | 1810.0               | -                    | 10.584425      |
| 11                                                                   | 2        | 86.5             | 15          | 1320.0               | -                    | 11.181242      |

| <b>Table 111 - Long Sequence Waveform Trial#19 (NOT Detected) 80 MHz</b> |          |                  |             |                      |                      |                |
|--------------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                                  | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                        | 2        | 81.8             | 18          | 1999.0               | -                    | 0.279775       |
| 2                                                                        | 1        | 90.1             | 12          | -                    | -                    | 0.936395       |
| 3                                                                        | 3        | 70.9             | 15          | 1686.0               | 1827.0               | 1.507493       |
| 4                                                                        | 2        | 50.9             | 5           | 1933.0               | -                    | 2.486340       |
| 5                                                                        | 3        | 83.6             | 19          | 1125.0               | 1737.0               | 3.363714       |
| 6                                                                        | 1        | 86.7             | 11          | -                    | -                    | 3.659065       |
| 7                                                                        | 1        | 90.3             | 5           | -                    | -                    | 4.809462       |
| 8                                                                        | 3        | 94.3             | 18          | 1018.0               | 1481.0               | 5.509759       |
| 9                                                                        | 2        | 60.4             | 11          | 1295.0               | -                    | 6.008603       |
| 10                                                                       | 1        | 76.8             | 8           | -                    | -                    | 6.595199       |
| 11                                                                       | 1        | 82.0             | 14          | -                    | -                    | 7.330422       |
| 12                                                                       | 3        | 63.3             | 6           | 1594.0               | 1469.0               | 8.383652       |
| 13                                                                       | 1        | 87.8             | 19          | -                    | -                    | 8.718103       |
| 14                                                                       | 1        | 57.3             | 13          | -                    | -                    | 9.602327       |
| 15                                                                       | 1        | 73.1             | 19          | -                    | -                    | 10.086999      |
| 16                                                                       | 2        | 89.8             | 19          | 1488.0               | -                    | 11.271468      |
| 17                                                                       | 2        | 52.3             | 19          | 1100.0               | -                    | 11.486923      |

| <b>Table 112 - Long Sequence Waveform Trial#20 (Detected) 80 MHz</b> |          |                  |             |                      |                      |                |
|----------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                              | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                    | 2        | 72.4             | 9           | 1130.0               | -                    | 0.023490       |
| 2                                                                    | 1        | 95.7             | 15          | -                    | -                    | 1.946420       |
| 3                                                                    | 2        | 71.1             | 7           | 1324.0               | -                    | 2.819778       |
| 4                                                                    | 2        | 55.6             | 20          | 1035.0               | -                    | 3.832018       |
| 5                                                                    | 3        | 86.3             | 8           | 1856.0               | 1494.0               | 4.420884       |
| 6                                                                    | 3        | 69.6             | 17          | 1292.0               | 1687.0               | 5.316836       |
| 7                                                                    | 3        | 95.9             | 11          | 1039.0               | 1673.0               | 6.153924       |
| 8                                                                    | 3        | 50.5             | 6           | 1537.0               | 1351.0               | 7.001438       |
| 9                                                                    | 1        | 83.4             | 10          | -                    | -                    | 8.977987       |
| 10                                                                   | 2        | 57.4             | 7           | 1703.0               | -                    | 9.005499       |
| 11                                                                   | 2        | 68.0             | 8           | 1560.0               | -                    | 10.064203      |
| 12                                                                   | 2        | 62.7             | 17          | 1293.0               | -                    | 11.104511      |

| <b>Table 113 - Long Sequence Waveform Trial#21 (Detected) 80 MHz</b> |  |  |  |  |  |  |
|----------------------------------------------------------------------|--|--|--|--|--|--|
|----------------------------------------------------------------------|--|--|--|--|--|--|

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 64.6             | 13          | 1997.0               | -                    | 0.634734       |
| 2       | 2        | 64.4             | 17          | 1136.0               | -                    | 1.045559       |
| 3       | 1        | 80.0             | 17          | -                    | -                    | 2.801010       |
| 4       | 2        | 65.3             | 15          | 1985.0               | -                    | 3.847667       |
| 5       | 2        | 70.1             | 7           | 1846.0               | -                    | 4.348304       |
| 6       | 3        | 77.0             | 20          | 1543.0               | 1348.0               | 5.829493       |
| 7       | 2        | 67.7             | 14          | 1630.0               | -                    | 6.063183       |
| 8       | 2        | 59.3             | 6           | 1375.0               | -                    | 7.265435       |
| 9       | 2        | 78.7             | 7           | 1273.0               | -                    | 8.507258       |
| 10      | 1        | 69.1             | 10          | -                    | -                    | 9.637823       |
| 11      | 3        | 98.0             | 7           | 1044.0               | 1766.0               | 10.829523      |
| 12      | 1        | 60.9             | 7           | -                    | -                    | 11.194057      |

**Table 114 - Long Sequence Waveform Trial#22 (NOT Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 56.6             | 14          | -                    | -                    | 0.798042       |
| 2       | 3        | 95.6             | 5           | 1828.0               | 1050.0               | 1.385730       |
| 3       | 1        | 50.3             | 11          | -                    | -                    | 2.205287       |
| 4       | 1        | 72.4             | 16          | -                    | -                    | 3.607797       |
| 5       | 2        | 74.6             | 10          | 1940.0               | -                    | 4.035169       |
| 6       | 2        | 54.7             | 8           | 1856.0               | -                    | 5.466938       |
| 7       | 2        | 63.1             | 16          | 1600.0               | -                    | 5.575018       |
| 8       | 2        | 62.3             | 7           | 1318.0               | -                    | 6.943292       |
| 9       | 1        | 60.5             | 14          | -                    | -                    | 7.488381       |
| 10      | 1        | 70.5             | 14          | -                    | -                    | 8.542150       |
| 11      | 1        | 63.2             | 7           | -                    | -                    | 9.899347       |
| 12      | 1        | 87.5             | 17          | -                    | -                    | 10.436862      |
| 13      | 2        | 97.3             | 6           | 1172.0               | -                    | 11.443040      |

**Table 115 - Long Sequence Waveform Trial#23 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 82.7             | 15          | 1359.0               | -                    | 1.154343       |
| 2       | 1        | 53.6             | 18          | -                    | -                    | 2.562013       |
| 3       | 2        | 93.8             | 15          | 1617.0               | -                    | 2.904776       |
| 4       | 2        | 84.1             | 19          | 1531.0               | -                    | 4.322866       |
| 5       | 2        | 50.5             | 12          | 1868.0               | -                    | 6.031684       |
| 6       | 2        | 80.0             | 9           | 1090.0               | -                    | 6.751350       |
| 7       | 2        | 87.2             | 14          | 1689.0               | -                    | 9.292643       |
| 8       | 1        | 84.0             | 12          | -                    | -                    | 10.634101      |
| 9       | 3        | 65.5             | 9           | 1976.0               | 1497.0               | 11.407865      |

**Table 116 - Long Sequence Waveform Trial#24 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 2        | 70.0             | 11          | 1992.0               | -                    | 0.143684       |
| 2       | 1        | 90.4             | 19          | -                    | -                    | 1.304308       |
| 3       | 3        | 73.6             | 14          | 1407.0               | 1807.0               | 2.014647       |
| 4       | 3        | 84.5             | 11          | 1192.0               | 1754.0               | 2.785850       |
| 5       | 2        | 51.1             | 18          | 1758.0               | -                    | 2.862832       |
| 6       | 3        | 83.8             | 16          | 1361.0               | 1017.0               | 3.973283       |
| 7       | 2        | 83.9             | 18          | 1438.0               | -                    | 4.626218       |
| 8       | 1        | 64.4             | 7           | -                    | -                    | 5.405088       |
| 9       | 2        | 99.5             | 17          | 1494.0               | -                    | 5.685156       |
| 10      | 2        | 85.7             | 11          | 1155.0               | -                    | 7.053644       |
| 11      | 2        | 68.6             | 11          | 1219.0               | -                    | 7.152599       |
| 12      | 2        | 69.3             | 16          | 1828.0               | -                    | 8.048886       |
| 13      | 3        | 87.4             | 9           | 1937.0               | 1247.0               | 8.851958       |
| 14      | 3        | 91.9             | 16          | 1650.0               | 1049.0               | 9.389717       |
| 15      | 3        | 96.1             | 16          | 1733.0               | 1148.0               | 10.459533      |
| 16      | 2        | 81.5             | 18          | 1110.0               | -                    | 10.686759      |
| 17      | 2        | 68.0             | 5           | 1296.0               | -                    | 11.825392      |

**Table 117 - Long Sequence Waveform Trial#25 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 1        | 60.6             | 14          | -                    | -                    | 0.660652       |
| 2       | 3        | 84.6             | 19          | 1398.0               | 1562.0               | 1.374141       |
| 3       | 3        | 81.2             | 16          | 1077.0               | 1200.0               | 1.756018       |
| 4       | 2        | 50.9             | 15          | 1120.0               | -                    | 2.448235       |
| 5       | 2        | 60.7             | 8           | 1300.0               | -                    | 3.288801       |
| 6       | 1        | 66.7             | 9           | -                    | -                    | 4.761317       |
| 7       | 2        | 78.0             | 6           | 1452.0               | -                    | 5.589449       |
| 8       | 2        | 68.9             | 15          | 1635.0               | -                    | 6.368305       |
| 9       | 1        | 69.5             | 19          | -                    | -                    | 6.892050       |
| 10      | 3        | 79.4             | 14          | 1983.0               | 1040.0               | 7.963031       |
| 11      | 2        | 59.4             | 5           | 1307.0               | -                    | 8.642132       |
| 12      | 2        | 60.0             | 9           | 1539.0               | -                    | 9.554903       |
| 13      | 2        | 89.5             | 10          | 1339.0               | -                    | 10.285224      |
| 14      | 1        | 66.7             | 15          | -                    | -                    | 10.673878      |
| 15      | 1        | 96.4             | 10          | -                    | -                    | 11.389559      |

**Table 118 - Long Sequence Waveform Trial#26 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 56.0             | 18          | 1872.0               | 1510.0               | 0.615064       |
| 2       | 3        | 82.3             | 14          | 1861.0               | 1849.0               | 1.093399       |
| 3       | 2        | 55.0             | 17          | 1089.0               | -                    | 1.799050       |
| 4       | 2        | 52.8             | 20          | 1415.0               | -                    | 2.091831       |
| 5       | 2        | 80.0             | 15          | 1872.0               | -                    | 3.090161       |
| 6       | 2        | 56.5             | 17          | 1693.0               | -                    | 3.357408       |
| 7       | 2        | 50.8             | 12          | 1992.0               | -                    | 4.239985       |
| 8       | 2        | 73.5             | 18          | 1523.0               | -                    | 4.484842       |
| 9       | 2        | 93.8             | 7           | 1195.0               | -                    | 5.423416       |
| 10      | 2        | 91.8             | 18          | 1073.0               | -                    | 5.718668       |
| 11      | 3        | 62.9             | 6           | 1220.0               | 1169.0               | 6.703761       |
| 12      | 1        | 75.1             | 16          | -                    | -                    | 7.506409       |
| 13      | 1        | 74.9             | 11          | -                    | -                    | 8.056909       |
| 14      | 1        | 80.9             | 5           | -                    | -                    | 8.226082       |
| 15      | 2        | 52.8             | 18          | 1026.0               | -                    | 9.058795       |
| 16      | 1        | 97.0             | 7           | -                    | -                    | 9.707798       |
| 17      | 2        | 56.8             | 9           | 1061.0               | -                    | 10.279635      |
| 18      | 2        | 60.5             | 14          | 1293.0               | -                    | 11.341096      |
| 19      | 3        | 67.8             | 19          | 1977.0               | 1801.0               | 11.974360      |

**Table 119 - Long Sequence Waveform Trial#27 (Detected) 80 MHz**

| Burst # | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
|---------|----------|------------------|-------------|----------------------|----------------------|----------------|
| 1       | 3        | 52.4             | 7           | 1512.0               | 1106.0               | 0.938801       |
| 2       | 1        | 99.4             | 17          | -                    | -                    | 2.114816       |
| 3       | 2        | 77.5             | 19          | 1396.0               | -                    | 2.510374       |
| 4       | 3        | 61.0             | 16          | 1090.0               | 1126.0               | 3.540208       |
| 5       | 2        | 89.0             | 9           | 1501.0               | -                    | 4.486683       |
| 6       | 3        | 51.0             | 8           | 1869.0               | 1197.0               | 5.609348       |
| 7       | 2        | 83.1             | 13          | 1701.0               | -                    | 6.780325       |
| 8       | 2        | 59.9             | 13          | 1915.0               | -                    | 8.365074       |
| 9       | 1        | 95.0             | 6           | -                    | -                    | 9.460482       |
| 10      | 1        | 98.6             | 20          | -                    | -                    | 10.133785      |
| 11      | 1        | 87.7             | 19          | -                    | -                    | 11.454678      |

| <b>Table 120 - Long Sequence Waveform Trial#28 (Detected) 80 MHz</b> |          |                  |             |                      |                      |                |
|----------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                              | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                    | 3        | 87.0             | 12          | 1295.0               | 1949.0               | 0.251898       |
| 2                                                                    | 1        | 68.9             | 10          | -                    | -                    | 0.896801       |
| 3                                                                    | 2        | 91.3             | 17          | 1018.0               | -                    | 1.595396       |
| 4                                                                    | 2        | 97.4             | 15          | 1205.0               | -                    | 2.420891       |
| 5                                                                    | 1        | 56.2             | 12          | -                    | -                    | 3.056292       |
| 6                                                                    | 2        | 57.1             | 15          | 1070.0               | -                    | 3.370796       |
| 7                                                                    | 1        | 62.8             | 14          | -                    | -                    | 3.927346       |
| 8                                                                    | 2        | 76.0             | 7           | 1257.0               | -                    | 4.557703       |
| 9                                                                    | 3        | 79.7             | 16          | 1747.0               | 1162.0               | 5.241064       |
| 10                                                                   | 1        | 58.3             | 10          | -                    | -                    | 5.704464       |
| 11                                                                   | 3        | 77.3             | 14          | 1128.0               | 1815.0               | 6.904876       |
| 12                                                                   | 1        | 96.8             | 14          | -                    | -                    | 7.395911       |
| 13                                                                   | 2        | 59.7             | 10          | 1567.0               | -                    | 8.071140       |
| 14                                                                   | 3        | 75.4             | 20          | 1998.0               | 1220.0               | 8.607475       |
| 15                                                                   | 2        | 58.4             | 13          | 1380.0               | -                    | 9.000400       |
| 16                                                                   | 2        | 71.8             | 15          | 1252.0               | -                    | 10.081260      |
| 17                                                                   | 2        | 51.4             | 17          | 1873.0               | -                    | 10.427145      |
| 18                                                                   | 2        | 80.9             | 15          | 1623.0               | -                    | 11.073791      |
| 19                                                                   | 3        | 93.7             | 9           | 1279.0               | 1597.0               | 11.420398      |

| <b>Table 121 - Long Sequence Waveform Trial#29 (Detected) 80 MHz</b> |          |                  |             |                      |                      |                |
|----------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                              | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                    | 1        | 71.4             | 12          | -                    | -                    | 0.450593       |
| 2                                                                    | 3        | 69.7             | 6           | 1231.0               | 1146.0               | 1.134585       |
| 3                                                                    | 3        | 98.5             | 9           | 1745.0               | 1848.0               | 1.686461       |
| 4                                                                    | 2        | 95.4             | 17          | 1339.0               | -                    | 2.231294       |
| 5                                                                    | 2        | 76.8             | 14          | 1107.0               | -                    | 2.846316       |
| 6                                                                    | 2        | 90.7             | 10          | 1837.0               | -                    | 3.094615       |
| 7                                                                    | 3        | 98.9             | 17          | 1315.0               | 1830.0               | 4.040318       |
| 8                                                                    | 2        | 60.2             | 18          | 1407.0               | -                    | 4.790131       |
| 9                                                                    | 2        | 59.5             | 15          | 1958.0               | -                    | 4.824512       |
| 10                                                                   | 2        | 98.5             | 9           | 1625.0               | -                    | 5.529653       |
| 11                                                                   | 1        | 89.4             | 11          | -                    | -                    | 6.296607       |
| 12                                                                   | 3        | 85.1             | 6           | 1337.0               | 1950.0               | 6.935304       |
| 13                                                                   | 2        | 62.7             | 19          | 1557.0               | -                    | 7.581248       |
| 14                                                                   | 1        | 70.9             | 9           | -                    | -                    | 7.821552       |
| 15                                                                   | 3        | 68.5             | 10          | 1876.0               | 1800.0               | 8.507141       |
| 16                                                                   | 3        | 89.3             | 7           | 1274.0               | 1059.0               | 9.476428       |
| 17                                                                   | 2        | 55.3             | 8           | 1013.0               | -                    | 9.967911       |
| 18                                                                   | 2        | 83.2             | 18          | 1700.0               | -                    | 10.666289      |
| 19                                                                   | 2        | 89.4             | 11          | 1597.0               | -                    | 11.231715      |
| 20                                                                   | 2        | 94.3             | 14          | 1244.0               | -                    | 11.664821      |

| <b>Table 122 - Long Sequence Waveform Trial#30 (Detected) 80 MHz</b> |          |                  |             |                      |                      |                |
|----------------------------------------------------------------------|----------|------------------|-------------|----------------------|----------------------|----------------|
| Burst #                                                              | # Pulses | Pulse Width (us) | Chirp (MHz) | Interval 1 to 2 (us) | Interval 2 to 3 (us) | Start time (s) |
| 1                                                                    | 2        | 89.7             | 9           | 1833.0               | -                    | 0.655376       |
| 2                                                                    | 1        | 87.6             | 14          | -                    | -                    | 0.735641       |
| 3                                                                    | 2        | 59.4             | 12          | 1649.0               | -                    | 1.478855       |
| 4                                                                    | 2        | 90.2             | 11          | 1741.0               | -                    | 2.058716       |
| 5                                                                    | 2        | 55.0             | 17          | 1650.0               | -                    | 2.762489       |
| 6                                                                    | 1        | 67.8             | 13          | -                    | -                    | 3.541541       |
| 7                                                                    | 1        | 88.0             | 7           | -                    | -                    | 4.094778       |
| 8                                                                    | 1        | 92.2             | 14          | -                    | -                    | 5.120583       |
| 9                                                                    | 3        | 80.2             | 6           | 1238.0               | 1693.0               | 5.766611       |
| 10                                                                   | 3        | 67.3             | 10          | 1022.0               | 1693.0               | 6.159218       |
| 11                                                                   | 2        | 73.0             | 16          | 1264.0               | -                    | 7.154734       |
| 12                                                                   | 2        | 61.7             | 8           | 1123.0               | -                    | 7.501723       |
| 13                                                                   | 1        | 85.8             | 17          | -                    | -                    | 8.531024       |
| 14                                                                   | 2        | 65.7             | 13          | 1258.0               | -                    | 9.298231       |
| 15                                                                   | 3        | 85.1             | 11          | 1115.0               | 1490.0               | 9.507542       |
| 16                                                                   | 1        | 55.0             | 20          | -                    | -                    | 10.437109      |
| 17                                                                   | 2        | 92.6             | 12          | 1477.0               | -                    | 10.739615      |
| 18                                                                   | 2        | 92.9             | 17          | 1068.0               | -                    | 11.453704      |

| Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                         | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1                                                               | 9                | 1.0                 | 333.0    | Yes      | 5569.0MHz,<br>-63.0dBm      | Hop sequence: 5272, 5669, 5438, 5705, 5536, 5366, 5537, 5396, 5350, 5423, 5642, 5588, 5473, 5430, 5552, 5356, 5464, 5583, 5333, 5460, 5522, 5610, 5668, 5589, 5677, 5599, 5259, 5594, 5414, 5601, 5496, 5258, 5364, 5308, 5546, 5398, 5539, 5301, 5434, 5560, 5321, 5459, 5328, 5273, 5282, 5647, 5517, 5397, 5703, 5603, 5692, 5433, 5697, 5449, 5584, 5514, 5431, 5591, 5489, 5376, 5721, 5689, 5605, 5510, 5550, 5632, 5455, 5622, 5394, 5711, 5568, 5270, 5559, 5498, 5412, 5702, 5518, 5534, 5683, 5555, 5372, 5297, 5720, 5374, 5261, 5482, 5620, 5582, 5436, 5279, 5467, 5437, 5421, 5360, 5291, 5318, 5724, 5576, 5268, 5633 (18 hits) (09/08/2015 02:42:49 PM) |
| 2                                                               | 9                | 1.0                 | 333.0    | Yes      | 5570.0MHz,<br>-63.0dBm      | Hop sequence: 5498, 5354, 5295, 5471, 5345, 5458, 5703, 5363, 5638, 5704, 5268, 5531, 5285, 5646, 5700, 5719, 5586, 5414, 5351, 5493, 5725, 5658, 5300, 5417, 5303, 5399, 5459, 5529, 5479, 5528, 5522, 5599, 5397, 5287, 5670, 5502, 5283, 5576, 5299, 5423, 5713, 5318, 5324, 5507, 5394, 5436, 5424, 5640, 5515, 5477, 5254, 5676, 5321, 5478, 5511, 5439, 5623, 5553, 5637, 5517, 5581, 5443, 5565, 5628, 5396, 5279, 5449, 5472, 5591, 5557, 5518, 5722, 5492, 5706, 5332, 5705, 5608, 5284, 5641, 5288, 5601, 5451, 5536, 5264, 5376, 5520, 5702, 5617, 5519, 5340, 5352, 5389, 5470, 5540, 5631, 5365, 5463, 5672, 5460, 5613 (20 hits) (09/08/2015 02:43:04 PM) |
| 3                                                               | 9                | 1.0                 | 333.0    | Yes      | 5490.0MHz,<br>-63.0dBm      | Hop sequence: 5685, 5616, 5277, 5677, 5328, 5462, 5330, 5523, 5576, 5478, 5423, 5594, 5558, 5445, 5570, 5712, 5605, 5614, 5563, 5615, 5597, 5509, 5417, 5410, 5367, 5503, 5368, 5682, 5409, 5312, 5531, 5340, 5315, 5394, 5375, 5473, 5268, 5418, 5475, 5628, 5601, 5604, 5540, 5265, 5292, 5460, 5282, 5671, 5298, 5574, 5331, 5494, 5724, 5323, 5369, 5302, 5414, 5582, 5488, 5535, 5463, 5285, 5527, 5436, 5572, 5592, 5669, 5332, 5672, 5683, 5511, 5419, 5388, 5649, 5448, 5629, 5707, 5266, 5704, 5534, 5338, 5472, 5264, 5631, 5403, 5271, 5514, 5556, 5454, 5593, 5590, 5337, 5710, 5496, 5329, 5354, 5356, 5260, 5274, 5452 (16 hits) (09/08/2015 02:43:17 PM) |
| 4                                                               | 9                | 1.0                 | 333.0    | No       | 5491.0MHz,<br>-63.0dBm      | Hop sequence: 5370, 5336, 5701, 5542, 5536, 5546, 5548, 5375, 5634, 5524, 5368, 5540, 5683, 5664, 5315,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                         | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                 |                  |                     |          |          |                             | 5471, 5364, 5675, 5581, 5649, 5373, 5386, 5667, 5346, 5654, 5359, 5445, 5411, 5365, 5665, 5397, 5337, 5250, 5647, 5638, 5582, 5326, 5452, 5264, 5520, 5276, 5467, 5468, 5523, 5509, 5586, 5594, 5577, 5661, 5351, 5690, 5281, 5438, 5313, 5609, 5430, 5685, 5719, 5613, 5563, 5492, 5588, 5595, 5381, 5413, 5270, 5718, 5345, 5475, 5618, 5324, 5557, 5277, 5355, 5666, 5461, 5344, 5394, 5539, 5601, 5629, 5680, 5544, 5558, 5294, 5498, 5543, 5651, 5695, 5260, 5331, 5450, 5697, 5428, 5480, 5474, 5637, 5628, 5645, 5327 (17 hits) (09/08/2015 02:43:32 PM)                                                                                                         |
| 5                                                               | 9                | 1.0                 | 333.0    | Yes      | 5492.0MHz, -63.0dBm         | Hop sequence: 5494, 5251, 5285, 5577, 5498, 5393, 5404, 5294, 5597, 5289, 5691, 5676, 5384, 5618, 5724, 5434, 5312, 5690, 5695, 5365, 5315, 5522, 5472, 5557, 5412, 5632, 5581, 5689, 5715, 5579, 5455, 5678, 5624, 5692, 5716, 5429, 5331, 5302, 5517, 5254, 5671, 5269, 5677, 5362, 5723, 5401, 5638, 5562, 5439, 5521, 5623, 5529, 5712, 5390, 5476, 5555, 5587, 5626, 5423, 5502, 5653, 5661, 5564, 5665, 5456, 5657, 5637, 5367, 5321, 5387, 5395, 5402, 5268, 5383, 5286, 5447, 5571, 5576, 5368, 5583, 5656, 5511, 5422, 5722, 5278, 5628, 5293, 5515, 5512, 5468, 5701, 5506, 5376, 5519, 5417, 5378, 5281, 5334, 5666, 5379 (16 hits) (09/08/2015 02:44:04 PM) |
| 6                                                               | 9                | 1.0                 | 333.0    | Yes      | 5493.0MHz, -63.0dBm         | Hop sequence: 5394, 5295, 5517, 5446, 5250, 5514, 5440, 5454, 5723, 5356, 5285, 5678, 5253, 5551, 5547, 5544, 5349, 5669, 5270, 5561, 5665, 5685, 5510, 5545, 5370, 5526, 5345, 5589, 5674, 5562, 5660, 5278, 5605, 5459, 5484, 5368, 5293, 5408, 5593, 5461, 5518, 5384, 5633, 5281, 5396, 5585, 5371, 5260, 5456, 5329, 5540, 5619, 5496, 5571, 5389, 5697, 5683, 5716, 5451, 5406, 5598, 5681, 5480, 5457, 5261, 5427, 5327, 5411, 5386, 5429, 5519, 5630, 5582, 5469, 5344, 5378, 5515, 5351, 5513, 5301, 5559, 5591, 5502, 5254, 5607, 5443, 5310, 5275, 5651, 5483, 5579, 5672, 5535, 5335, 5460, 5494, 5268, 5251, 5348, 5326 (20 hits) (09/08/2015 02:44:19 PM) |
| 7                                                               | 9                | 1.0                 | 333.0    | Yes      | 5494.0MHz, -63.0dBm         | Hop sequence: 5561, 5309, 5557, 5303, 5265, 5654, 5342, 5304, 5555, 5508, 5711, 5377, 5668, 5704, 5530, 5689, 5353, 5644, 5715, 5391, 5274, 5528, 5600, 5661, 5702, 5307, 5381, 5344, 5574, 5254, 5464, 5370, 5619, 5343, 5512, 5471, 5666, 5565, 5726,                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5558, 5327, 5332, 5533, 5439, 5708, 5425, 5318, 5291, 5717, 5569, 5690, 5575, 5358, 5398, 5582, 5390, 5324, 5322, 5431, 5694, 5695, 5576, 5688, 5373, 5578, 5473, 5448, 5592, 5474, 5612, 5602, 5719, 5328, 5710, 5498, 5414, 5465, 5399, 5294, 5524, 5276, 5503, 5659, 5648, 5445, 5724, 5252, 5475, 5267, 5671, 5480, 5544, 5460, 5393, 5452, 5405, 5298, 5282, 5636, 5551 (16 hits) (09/08/2015 02:44:33 PM)                                                                                                                                                                                                                                                         |
| 8       | 9                | 1.0                 | 333.0    | Yes      | 5495.0MHz,<br>-63.0dBm      | Hop sequence: 5553, 5471, 5598, 5570, 5670, 5596, 5287, 5278, 5686, 5401, 5512, 5534, 5307, 5561, 5513, 5700, 5529, 5674, 5460, 5652, 5326, 5597, 5623, 5562, 5254, 5388, 5668, 5627, 5554, 5325, 5461, 5550, 5369, 5599, 5383, 5569, 5367, 5712, 5274, 5643, 5428, 5375, 5438, 5617, 5291, 5468, 5565, 5628, 5374, 5368, 5571, 5563, 5601, 5568, 5289, 5394, 5339, 5605, 5279, 5557, 5463, 5531, 5462, 5522, 5515, 5446, 5312, 5379, 5315, 5426, 5527, 5282, 5333, 5318, 5264, 5473, 5590, 5578, 5436, 5655, 5511, 5295, 5637, 5695, 5595, 5631, 5718, 5445, 5639, 5642, 5485, 5661, 5421, 5414, 5358, 5399, 5478, 5451, 5584, 5680 (20 hits) (09/08/2015 02:44:47 PM) |
| 9       | 9                | 1.0                 | 333.0    | Yes      | 5496.0MHz,<br>-63.0dBm      | Hop sequence: 5290, 5533, 5646, 5444, 5482, 5469, 5460, 5300, 5560, 5577, 5499, 5620, 5294, 5266, 5390, 5589, 5604, 5329, 5397, 5518, 5309, 5349, 5500, 5549, 5496, 5408, 5489, 5714, 5437, 5426, 5344, 5534, 5726, 5345, 5319, 5267, 5370, 5554, 5636, 5455, 5462, 5502, 5537, 5667, 5497, 5658, 5442, 5664, 5544, 5523, 5562, 5270, 5468, 5456, 5591, 5635, 5688, 5320, 5700, 5715, 5609, 5643, 5433, 5536, 5520, 5459, 5649, 5292, 5356, 5713, 5710, 5510, 5420, 5429, 5317, 5483, 5624, 5403, 5540, 5565, 5588, 5298, 5399, 5438, 5508, 5257, 5314, 5351, 5647, 5411, 5525, 5387, 5507, 5435, 5310, 5686, 5358, 5665, 5682, 5711 (23 hits) (09/08/2015 02:45:02 PM) |
| 10      | 9                | 1.0                 | 333.0    | Yes      | 5497.0MHz,<br>-63.0dBm      | Hop sequence: 5393, 5647, 5485, 5424, 5458, 5408, 5565, 5292, 5271, 5633, 5256, 5278, 5425, 5616, 5495, 5345, 5658, 5722, 5591, 5286, 5451, 5631, 5275, 5301, 5572, 5514, 5379, 5550, 5562, 5520, 5618, 5540, 5399, 5304, 5454, 5643, 5452, 5671, 5364, 5318, 5624, 5445, 5506, 5657, 5325, 5598, 5351, 5359, 5723, 5692, 5543, 5552, 5288, 5466, 5376, 5695, 5655, 5374, 5338, 5287, 5422, 5673, 5279,                                                                                                                                                                                                                                                                 |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5378, 5346, 5526, 5311, 5281, 5635, 5686, 5392, 5420, 5488, 5548, 5439, 5257, 5698, 5348, 5713, 5524, 5395, 5398, 5491, 5360, 5510, 5535, 5477, 5419, 5583, 5455, 5473, 5307, 5511, 5476, 5266, 5264, 5316, 5582, 5464, 5453 (17 hits) (09/08/2015 02:45:16 PM)                                                                                                                                                                                                                                                                                                                                                                                                         |
| 11      | 9                | 1.0                 | 333.0    | Yes      | 5498.0MHz,<br>-63.0dBm      | Hop sequence: 5317, 5417, 5721, 5396, 5283, 5375, 5397, 5421, 5537, 5353, 5450, 5526, 5661, 5321, 5338, 5518, 5411, 5553, 5354, 5368, 5587, 5570, 5420, 5691, 5517, 5432, 5288, 5308, 5323, 5556, 5479, 5378, 5663, 5590, 5407, 5524, 5651, 5514, 5357, 5508, 5319, 5528, 5598, 5653, 5597, 5640, 5625, 5431, 5574, 5344, 5361, 5649, 5622, 5668, 5648, 5608, 5345, 5451, 5698, 5626, 5444, 5384, 5445, 5723, 5567, 5604, 5650, 5413, 5341, 5679, 5372, 5406, 5465, 5575, 5678, 5672, 5561, 5470, 5468, 5306, 5612, 5689, 5436, 5725, 5630, 5278, 5676, 5480, 5339, 5416, 5687, 5294, 5548, 5669, 5585, 5685, 5302, 5667, 5442, 5683 (14 hits) (09/08/2015 02:45:34 PM) |
| 12      | 9                | 1.0                 | 333.0    | Yes      | 5499.0MHz,<br>-63.0dBm      | Hop sequence: 5616, 5714, 5647, 5557, 5601, 5596, 5253, 5488, 5454, 5490, 5310, 5554, 5556, 5633, 5280, 5320, 5254, 5426, 5301, 5493, 5446, 5399, 5356, 5296, 5689, 5561, 5371, 5695, 5510, 5550, 5367, 5563, 5548, 5251, 5546, 5353, 5466, 5639, 5623, 5691, 5336, 5588, 5629, 5608, 5555, 5634, 5653, 5570, 5512, 5519, 5260, 5461, 5507, 5680, 5400, 5630, 5577, 5611, 5388, 5516, 5358, 5288, 5387, 5396, 5451, 5497, 5271, 5537, 5291, 5390, 5332, 5269, 5463, 5294, 5411, 5424, 5703, 5699, 5635, 5524, 5698, 5331, 5448, 5321, 5344, 5547, 5337, 5620, 5369, 5414, 5545, 5580, 5549, 5365, 5413, 5626, 5681, 5697, 5487, 5381 (23 hits) (09/08/2015 02:45:47 PM) |
| 13      | 9                | 1.0                 | 333.0    | Yes      | 5500.0MHz,<br>-63.0dBm      | Hop sequence: 5360, 5364, 5290, 5428, 5446, 5693, 5334, 5543, 5318, 5277, 5270, 5325, 5271, 5314, 5438, 5539, 5477, 5399, 5545, 5431, 5388, 5688, 5597, 5333, 5540, 5679, 5291, 5423, 5586, 5375, 5713, 5362, 5439, 5607, 5474, 5370, 5697, 5266, 5527, 5269, 5335, 5346, 5664, 5585, 5458, 5572, 5437, 5570, 5644, 5649, 5260, 5449, 5299, 5510, 5485, 5310, 5288, 5253, 5294, 5483, 5655, 5467, 5521, 5549, 5625, 5409, 5725, 5330, 5305, 5381, 5615, 5385, 5380, 5678, 5488, 5303, 5278, 5259, 5480, 5363, 5490, 5486, 5341, 5427, 5685, 5308, 5610,                                                                                                                 |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5672, 5620, 5357, 5550, 5503, 5433, 5422, 5443, 5268, 5645, 5602, 5714, 5556 (13 hits) (09/08/2015 02:46:02 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 14      | 9                | 1.0                 | 333.0    | Yes      | 5501.0MHz,<br>-63.0dBm      | Hop sequence: 5457, 5588, 5626, 5700, 5650, 5429, 5645, 5533, 5517, 5271, 5623, 5314, 5377, 5529, 5694, 5687, 5641, 5293, 5592, 5251, 5351, 5399, 5370, 5676, 5711, 5591, 5697, 5725, 5430, 5472, 5344, 5503, 5437, 5287, 5595, 5300, 5478, 5448, 5723, 5378, 5343, 5391, 5268, 5689, 5456, 5359, 5409, 5638, 5350, 5273, 5397, 5277, 5568, 5389, 5705, 5594, 5480, 5270, 5309, 5395, 5614, 5322, 5706, 5603, 5476, 5496, 5449, 5418, 5622, 5576, 5565, 5426, 5498, 5275, 5570, 5525, 5431, 5445, 5519, 5413, 5291, 5258, 5673, 5648, 5500, 5404, 5367, 5333, 5695, 5509, 5423, 5400, 5659, 5320, 5253, 5662, 5259, 5619, 5425, 5375 (13 hits) (09/08/2015 02:46:16 PM) |
| 15      | 9                | 1.0                 | 333.0    | Yes      | 5502.0MHz,<br>-63.0dBm      | Hop sequence: 5405, 5364, 5338, 5662, 5522, 5674, 5376, 5471, 5630, 5481, 5527, 5567, 5629, 5530, 5571, 5257, 5397, 5506, 5452, 5252, 5594, 5715, 5499, 5291, 5464, 5281, 5345, 5545, 5336, 5601, 5426, 5519, 5554, 5384, 5614, 5274, 5696, 5706, 5349, 5672, 5702, 5520, 5655, 5653, 5694, 5469, 5673, 5369, 5337, 5563, 5367, 5707, 5634, 5436, 5411, 5390, 5286, 5423, 5510, 5591, 5317, 5273, 5666, 5421, 5354, 5302, 5593, 5279, 5704, 5444, 5528, 5428, 5270, 5271, 5535, 5295, 5255, 5347, 5293, 5624, 5586, 5617, 5408, 5289, 5500, 5612, 5568, 5324, 5283, 5321, 5670, 5425, 5619, 5314, 5351, 5395, 5697, 5664, 5355, 5462 (16 hits) (09/08/2015 02:46:30 PM) |
| 16      | 9                | 1.0                 | 333.0    | Yes      | 5503.0MHz,<br>-63.0dBm      | Hop sequence: 5295, 5442, 5522, 5263, 5675, 5505, 5436, 5511, 5345, 5358, 5383, 5643, 5356, 5507, 5276, 5557, 5432, 5605, 5405, 5624, 5614, 5492, 5683, 5288, 5403, 5680, 5644, 5678, 5589, 5585, 5640, 5636, 5676, 5600, 5450, 5519, 5719, 5501, 5604, 5596, 5528, 5715, 5535, 5320, 5543, 5628, 5590, 5496, 5469, 5691, 5315, 5256, 5487, 5550, 5468, 5518, 5594, 5335, 5254, 5481, 5625, 5372, 5722, 5422, 5427, 5510, 5703, 5498, 5400, 5395, 5307, 5413, 5583, 5641, 5258, 5406, 5723, 5497, 5561, 5530, 5327, 5299, 5558, 5668, 5389, 5556, 5502, 5429, 5615, 5322, 5441, 5549, 5619, 5407, 5418, 5588, 5398, 5577, 5367, 5671 (23 hits) (09/08/2015 02:46:44 PM) |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17      | 9                | 1.0                 | 333.0    | Yes      | 5504.0MHz,<br>-63.0dBm      | Hop sequence: 5263, 5525, 5618,<br>5479, 5520, 5611, 5720, 5607, 5638,<br>5282, 5451, 5256, 5373, 5550, 5565,<br>5526, 5656, 5603, 5522, 5446, 5414,<br>5271, 5678, 5416, 5632, 5624, 5672,<br>5449, 5689, 5365, 5701, 5523, 5556,<br>5313, 5300, 5367, 5409, 5599, 5470,<br>5311, 5537, 5536, 5510, 5606, 5478,<br>5679, 5435, 5699, 5358, 5683, 5703,<br>5417, 5283, 5499, 5626, 5334, 5404,<br>5601, 5357, 5723, 5532, 5698, 5344,<br>5418, 5327, 5566, 5345, 5471, 5369,<br>5419, 5476, 5715, 5515, 5724, 5710,<br>5542, 5530, 5612, 5688, 5548, 5693,<br>5643, 5497, 5664, 5437, 5318, 5279,<br>5541, 5391, 5464, 5469, 5324, 5462,<br>5666, 5570, 5329, 5474, 5322, 5562,<br>5381 (22 hits) (09/08/2015 02:47:03<br>PM) |
| 18      | 9                | 1.0                 | 333.0    | Yes      | 5505.0MHz,<br>-63.0dBm      | Hop sequence: 5385, 5253, 5702,<br>5426, 5448, 5377, 5406, 5543, 5615,<br>5601, 5429, 5431, 5400, 5720, 5620,<br>5412, 5451, 5493, 5715, 5515, 5443,<br>5576, 5452, 5459, 5494, 5347, 5313,<br>5321, 5698, 5545, 5418, 5537, 5463,<br>5560, 5446, 5650, 5639, 5296, 5307,<br>5419, 5484, 5630, 5625, 5486, 5581,<br>5467, 5673, 5592, 5476, 5563, 5427,<br>5561, 5269, 5291, 5366, 5540, 5310,<br>5666, 5335, 5590, 5455, 5629, 5660,<br>5518, 5645, 5437, 5584, 5290, 5668,<br>5557, 5374, 5424, 5416, 5667, 5379,<br>5674, 5577, 5579, 5621, 5391, 5591,<br>5364, 5605, 5616, 5588, 5322, 5262,<br>5683, 5298, 5697, 5659, 5357, 5382,<br>5652, 5657, 5497, 5554, 5665, 5654,<br>5693 (14 hits) (09/08/2015 02:47:16<br>PM) |
| 19      | 9                | 1.0                 | 333.0    | Yes      | 5506.0MHz,<br>-63.0dBm      | Hop sequence: 5558, 5392, 5535,<br>5593, 5666, 5508, 5358, 5426, 5519,<br>5627, 5282, 5714, 5634, 5550, 5362,<br>5548, 5342, 5403, 5483, 5287, 5702,<br>5464, 5539, 5565, 5661, 5488, 5431,<br>5383, 5557, 5615, 5331, 5429, 5562,<br>5371, 5484, 5630, 5386, 5318, 5479,<br>5527, 5263, 5506, 5697, 5467, 5370,<br>5572, 5302, 5684, 5537, 5633, 5349,<br>5348, 5549, 5530, 5596, 5441, 5653,<br>5380, 5716, 5563, 5486, 5469, 5276,<br>5638, 5720, 5544, 5711, 5518, 5517,<br>5329, 5507, 5323, 5376, 5373, 5333,<br>5256, 5420, 5258, 5461, 5399, 5599,<br>5605, 5545, 5700, 5257, 5491, 5275,<br>5432, 5496, 5459, 5662, 5609, 5306,<br>5462, 5264, 5458, 5290, 5465, 5450,<br>5502 (24 hits) (09/08/2015 02:47:29<br>PM) |
| 20      | 9                | 1.0                 | 333.0    | Yes      | 5507.0MHz,<br>-63.0dBm      | Hop sequence: 5632, 5403, 5466,<br>5308, 5479, 5691, 5462, 5397, 5563,<br>5551, 5338, 5300, 5606, 5701, 5548,<br>5398, 5329, 5295, 5613, 5692, 5330,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5615, 5713, 5253, 5579, 5671, 5629, 5528, 5553, 5515, 5612, 5368, 5394, 5369, 5599, 5431, 5287, 5298, 5647, 5489, 5598, 5616, 5538, 5610, 5560, 5459, 5349, 5288, 5667, 5310, 5261, 5408, 5393, 5365, 5383, 5280, 5609, 5532, 5465, 5604, 5409, 5268, 5630, 5578, 5628, 5377, 5306, 5635, 5436, 5591, 5499, 5626, 5569, 5267, 5309, 5524, 5627, 5457, 5541, 5511, 5583, 5334, 5301, 5395, 5670, 5568, 5399, 5289, 5363, 5477, 5639, 5455, 5448, 5488, 5357, 5438, 5570, 5417, 5346, 5516 (17 hits) (09/08/2015 02:47:45 PM)                                                                                                                                             |
| 21      | 9                | 1.0                 | 333.0    | Yes      | 5508.0MHz,<br>-63.0dBm      | Hop sequence: 5488, 5698, 5684, 5598, 5475, 5600, 5502, 5385, 5578, 5359, 5500, 5375, 5670, 5487, 5302, 5506, 5491, 5439, 5724, 5362, 5539, 5416, 5304, 5651, 5606, 5325, 5464, 5421, 5293, 5360, 5433, 5361, 5634, 5683, 5393, 5397, 5406, 5265, 5373, 5590, 5547, 5692, 5627, 5568, 5703, 5460, 5696, 5648, 5489, 5341, 5441, 5519, 5494, 5257, 5420, 5483, 5555, 5308, 5583, 5480, 5556, 5710, 5321, 5252, 5336, 5339, 5675, 5584, 5716, 5289, 5591, 5653, 5722, 5278, 5391, 5436, 5558, 5551, 5251, 5531, 5332, 5628, 5316, 5349, 5689, 5333, 5365, 5495, 5449, 5329, 5524, 5276, 5340, 5624, 5354, 5635, 5263, 5369, 5331, 5283 (16 hits) (09/08/2015 02:47:59 PM) |
| 22      | 9                | 1.0                 | 333.0    | Yes      | 5509.0MHz,<br>-63.0dBm      | Hop sequence: 5674, 5365, 5522, 5650, 5357, 5443, 5414, 5509, 5587, 5439, 5270, 5393, 5344, 5476, 5525, 5397, 5298, 5672, 5504, 5275, 5380, 5486, 5336, 5398, 5573, 5561, 5721, 5644, 5544, 5427, 5501, 5535, 5691, 5402, 5661, 5463, 5466, 5589, 5354, 5715, 5462, 5409, 5400, 5262, 5279, 5456, 5374, 5388, 5309, 5299, 5474, 5370, 5699, 5306, 5412, 5512, 5698, 5432, 5722, 5385, 5340, 5330, 5399, 5350, 5434, 5553, 5371, 5449, 5500, 5530, 5292, 5281, 5605, 5685, 5687, 5293, 5692, 5280, 5395, 5373, 5554, 5273, 5513, 5497, 5264, 5424, 5517, 5546, 5552, 5319, 5392, 5495, 5403, 5631, 5652, 5430, 5383, 5577, 5682, 5556 (20 hits) (09/08/2015 02:48:13 PM) |
| 23      | 9                | 1.0                 | 333.0    | Yes      | 5510.0MHz,<br>-63.0dBm      | Hop sequence: 5330, 5475, 5549, 5440, 5530, 5402, 5306, 5296, 5436, 5720, 5257, 5585, 5644, 5675, 5366, 5274, 5350, 5388, 5401, 5362, 5540, 5591, 5404, 5491, 5300, 5607, 5376, 5468, 5694, 5627, 5441, 5574, 5252, 5447, 5550, 5364, 5294, 5483, 5565, 5387, 5385, 5576, 5658, 5684, 5653,                                                                                                                                                                                                                                                                                                                                                                             |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5254, 5510, 5708, 5713, 5322, 5461, 5719, 5328, 5702, 5687, 5695, 5633, 5271, 5357, 5606, 5325, 5354, 5667, 5329, 5502, 5664, 5368, 5639, 5308, 5604, 5534, 5697, 5630, 5284, 5580, 5671, 5427, 5338, 5646, 5393, 5586, 5318, 5276, 5458, 5570, 5365, 5723, 5642, 5267, 5474, 5433, 5390, 5465, 5703, 5579, 5333, 5613, 5575, 5430, 5454 (10 hits) (09/08/2015 02:48:27 PM)                                                                                                                                                                                                                                                                                             |
| 24      | 9                | 1.0                 | 333.0    | Yes      | 5511.0MHz, -63.0dBm         | Hop sequence: 5601, 5377, 5570, 5493, 5681, 5405, 5450, 5341, 5296, 5534, 5571, 5623, 5491, 5418, 5652, 5465, 5561, 5400, 5311, 5625, 5297, 5298, 5607, 5360, 5695, 5707, 5455, 5665, 5525, 5344, 5371, 5520, 5368, 5424, 5632, 5273, 5655, 5322, 5530, 5456, 5615, 5392, 5477, 5299, 5428, 5421, 5657, 5617, 5453, 5454, 5484, 5682, 5582, 5612, 5425, 5545, 5277, 5628, 5446, 5439, 5557, 5319, 5409, 5678, 5480, 5358, 5445, 5259, 5278, 5586, 5359, 5348, 5376, 5470, 5354, 5549, 5506, 5567, 5372, 5293, 5411, 5279, 5332, 5672, 5394, 5620, 5721, 5539, 5267, 5323, 5592, 5532, 5422, 5543, 5257, 5624, 5264, 5258, 5591, 5286 (16 hits) (09/08/2015 02:48:44 PM) |
| 25      | 9                | 1.0                 | 333.0    | Yes      | 5512.0MHz, -63.0dBm         | Hop sequence: 5724, 5495, 5500, 5523, 5536, 5505, 5649, 5539, 5671, 5320, 5704, 5707, 5293, 5441, 5450, 5473, 5348, 5371, 5723, 5300, 5562, 5675, 5313, 5275, 5517, 5367, 5554, 5303, 5390, 5458, 5340, 5334, 5399, 5516, 5408, 5252, 5497, 5509, 5261, 5304, 5691, 5657, 5338, 5349, 5412, 5364, 5581, 5479, 5694, 5521, 5381, 5594, 5455, 5462, 5459, 5531, 5565, 5365, 5468, 5436, 5705, 5282, 5607, 5419, 5389, 5312, 5328, 5403, 5386, 5599, 5522, 5682, 5465, 5355, 5354, 5605, 5501, 5382, 5337, 5716, 5721, 5308, 5437, 5601, 5634, 5361, 5461, 5648, 5446, 5725, 5407, 5472, 5613, 5689, 5464, 5294, 5548, 5345, 5590, 5263 (18 hits) (09/08/2015 02:48:57 PM) |
| 26      | 9                | 1.0                 | 333.0    | Yes      | 5513.0MHz, -63.0dBm         | Hop sequence: 5661, 5398, 5612, 5512, 5507, 5466, 5439, 5457, 5546, 5320, 5471, 5330, 5597, 5604, 5480, 5366, 5496, 5668, 5338, 5416, 5493, 5368, 5263, 5403, 5581, 5472, 5527, 5523, 5333, 5522, 5270, 5308, 5725, 5553, 5369, 5282, 5381, 5355, 5431, 5584, 5676, 5410, 5688, 5568, 5252, 5536, 5528, 5618, 5384, 5490, 5587, 5451, 5660, 5626, 5573, 5655, 5364, 5608, 5569, 5541, 5393, 5258, 5714, 5325, 5586, 5387, 5639, 5397, 5648,                                                                                                                                                                                                                             |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5339, 5304, 5413, 5635, 5698, 5318, 5259, 5556, 5572, 5562, 5491, 5440, 5694, 5425, 5392, 5374, 5650, 5264, 5520, 5503, 5588, 5307, 5601, 5658, 5542, 5277, 5677, 5580, 5566, 5669, 5279 (22 hits) (09/08/2015 02:49:10 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 27      | 9                | 1.0                 | 333.0    | Yes      | 5514.0MHz,<br>-63.0dBm      | Hop sequence: 5455, 5358, 5373, 5608, 5313, 5725, 5668, 5685, 5519, 5363, 5687, 5609, 5523, 5309, 5678, 5440, 5342, 5606, 5645, 5411, 5671, 5384, 5274, 5413, 5720, 5722, 5706, 5391, 5362, 5356, 5487, 5372, 5359, 5451, 5573, 5538, 5701, 5328, 5623, 5614, 5647, 5348, 5485, 5423, 5458, 5352, 5510, 5260, 5421, 5397, 5542, 5552, 5679, 5710, 5723, 5694, 5387, 5586, 5588, 5472, 5380, 5435, 5572, 5318, 5670, 5689, 5653, 5717, 5571, 5366, 5258, 5393, 5392, 5627, 5499, 5301, 5465, 5398, 5524, 5254, 5681, 5279, 5636, 5277, 5601, 5256, 5289, 5271, 5286, 5518, 5532, 5574, 5453, 5690, 5560, 5682, 5576, 5611, 5454, 5494 (12 hits) (09/08/2015 02:49:23 PM) |
| 28      | 9                | 1.0                 | 333.0    | Yes      | 5515.0MHz,<br>-63.0dBm      | Hop sequence: 5275, 5337, 5468, 5450, 5544, 5578, 5538, 5643, 5532, 5335, 5469, 5681, 5436, 5621, 5368, 5264, 5668, 5472, 5489, 5547, 5348, 5263, 5669, 5362, 5699, 5459, 5510, 5715, 5675, 5720, 5270, 5678, 5585, 5646, 5454, 5310, 5287, 5267, 5423, 5341, 5625, 5700, 5694, 5384, 5273, 5670, 5490, 5632, 5480, 5712, 5391, 5629, 5378, 5566, 5508, 5514, 5370, 5366, 5536, 5443, 5631, 5588, 5254, 5597, 5543, 5705, 5361, 5316, 5323, 5539, 5565, 5430, 5711, 5708, 5258, 5636, 5595, 5648, 5476, 5399, 5285, 5486, 5457, 5326, 5548, 5623, 5466, 5529, 5381, 5498, 5413, 5609, 5693, 5467, 5278, 5624, 5602, 5587, 5652, 5449 (16 hits) (09/08/2015 02:49:36 PM) |
| 29      | 9                | 1.0                 | 333.0    | Yes      | 5516.0MHz,<br>-63.0dBm      | Hop sequence: 5486, 5645, 5469, 5516, 5631, 5549, 5499, 5365, 5602, 5254, 5678, 5622, 5620, 5686, 5609, 5431, 5687, 5459, 5579, 5553, 5385, 5278, 5666, 5710, 5665, 5545, 5470, 5523, 5388, 5627, 5462, 5565, 5607, 5404, 5659, 5525, 5685, 5699, 5613, 5676, 5500, 5634, 5453, 5466, 5358, 5436, 5723, 5558, 5712, 5336, 5270, 5617, 5341, 5556, 5380, 5284, 5369, 5322, 5438, 5704, 5488, 5304, 5478, 5345, 5570, 5267, 5669, 5474, 5671, 5614, 5361, 5420, 5435, 5402, 5535, 5581, 5576, 5320, 5677, 5271, 5693, 5709, 5458, 5656, 5405, 5433, 5718, 5476, 5370, 5412, 5403, 5658, 5305,                                                                             |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5363, 5417, 5440, 5439, 5530, 5492, 5392 (15 hits) (09/08/2015 02:49:49 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 30      | 9                | 1.0                 | 333.0    | No       | 5517.0MHz,<br>-63.0dBm      | Hop sequence: 5418, 5444, 5432, 5326, 5341, 5632, 5676, 5417, 5423, 5449, 5718, 5474, 5660, 5542, 5482, 5601, 5678, 5419, 5406, 5478, 5391, 5719, 5303, 5721, 5399, 5691, 5565, 5513, 5414, 5254, 5694, 5286, 5269, 5635, 5548, 5506, 5687, 5318, 5620, 5464, 5561, 5324, 5468, 5278, 5704, 5304, 5447, 5258, 5305, 5585, 5686, 5591, 5523, 5298, 5685, 5350, 5270, 5697, 5522, 5558, 5264, 5698, 5544, 5387, 5252, 5614, 5359, 5446, 5453, 5345, 5623, 5300, 5456, 5520, 5545, 5557, 5360, 5484, 5381, 5659, 5551, 5540, 5567, 5437, 5416, 5255, 5398, 5294, 5570, 5532, 5272, 5371, 5510, 5362, 5441, 5442, 5654, 5320, 5630, 5641 (19 hits) (09/08/2015 02:50:02 PM) |
| 31      | 9                | 1.0                 | 333.0    | Yes      | 5518.0MHz,<br>-63.0dBm      | Hop sequence: 5483, 5255, 5552, 5367, 5683, 5444, 5648, 5492, 5619, 5527, 5304, 5319, 5399, 5439, 5528, 5363, 5486, 5391, 5479, 5374, 5343, 5557, 5536, 5285, 5499, 5325, 5533, 5339, 5702, 5650, 5534, 5544, 5569, 5478, 5689, 5481, 5291, 5580, 5616, 5612, 5401, 5571, 5624, 5602, 5355, 5388, 5567, 5625, 5324, 5692, 5723, 5598, 5376, 5447, 5282, 5720, 5448, 5639, 5368, 5493, 5603, 5581, 5513, 5494, 5676, 5644, 5537, 5675, 5274, 5600, 5477, 5449, 5715, 5335, 5649, 5308, 5463, 5620, 5384, 5637, 5705, 5470, 5664, 5716, 5673, 5383, 5260, 5712, 5590, 5453, 5445, 5475, 5522, 5276, 5606, 5550, 5467, 5375, 5402, 5252 (18 hits) (09/08/2015 02:50:21 PM) |
| 32      | 9                | 1.0                 | 333.0    | Yes      | 5519.0MHz,<br>-63.0dBm      | Hop sequence: 5456, 5366, 5720, 5295, 5492, 5252, 5690, 5383, 5255, 5708, 5600, 5339, 5521, 5547, 5282, 5341, 5533, 5372, 5503, 5353, 5442, 5375, 5305, 5356, 5682, 5357, 5409, 5665, 5545, 5609, 5435, 5475, 5439, 5315, 5569, 5432, 5608, 5515, 5291, 5251, 5474, 5581, 5348, 5271, 5454, 5628, 5509, 5408, 5415, 5460, 5436, 5438, 5548, 5457, 5443, 5722, 5320, 5393, 5374, 5709, 5712, 5479, 5373, 5667, 5640, 5559, 5514, 5517, 5715, 5557, 5593, 5400, 5451, 5387, 5647, 5595, 5675, 5278, 5630, 5395, 5433, 5299, 5602, 5687, 5311, 5429, 5672, 5549, 5594, 5592, 5382, 5544, 5695, 5324, 5343, 5670, 5563, 5539, 5552, 5584 (19 hits) (09/08/2015 02:50:42 PM) |
| 33      | 9                | 1.0                 | 333.0    | Yes      | 5520.0MHz,                  | Hop sequence: 5461, 5435, 5459,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          | -63.0dBm                    | 5587, 5429, 5531, 5517, 5263, 5303, 5612, 5421, 5584, 5525, 5476, 5653, 5717, 5467, 5345, 5453, 5293, 5556, 5691, 5592, 5274, 5392, 5616, 5397, 5487, 5313, 5253, 5545, 5583, 5667, 5585, 5597, 5511, 5533, 5265, 5695, 5611, 5602, 5649, 5409, 5555, 5652, 5674, 5682, 5378, 5701, 5473, 5388, 5311, 5452, 5641, 5382, 5542, 5300, 5396, 5510, 5710, 5255, 5541, 5301, 5269, 5288, 5613, 5338, 5578, 5662, 5633, 5348, 5537, 5714, 5569, 5668, 5258, 5509, 5503, 5599, 5632, 5373, 5434, 5640, 5600, 5331, 5262, 5351, 5368, 5438, 5357, 5544, 5657, 5636, 5607, 5364, 5299, 5705, 5417, 5469, 5281 (16 hits) (09/08/2015 02:50:56 PM)                                 |
| 34      | 9                | 1.0                 | 333.0    | Yes      | 5521.0MHz,<br>-63.0dBm      | Hop sequence: 5425, 5286, 5693, 5566, 5345, 5344, 5501, 5597, 5369, 5521, 5463, 5360, 5311, 5604, 5305, 5639, 5331, 5304, 5562, 5705, 5256, 5606, 5574, 5252, 5492, 5721, 5660, 5458, 5552, 5523, 5431, 5613, 5545, 5370, 5549, 5573, 5583, 5273, 5601, 5442, 5571, 5596, 5717, 5391, 5467, 5462, 5362, 5481, 5398, 5700, 5628, 5663, 5529, 5576, 5335, 5541, 5581, 5697, 5418, 5432, 5614, 5483, 5330, 5675, 5301, 5352, 5709, 5665, 5488, 5496, 5673, 5533, 5615, 5357, 5645, 5322, 5384, 5257, 5348, 5441, 5686, 5503, 5293, 5553, 5297, 5279, 5509, 5486, 5667, 5346, 5616, 5471, 5568, 5303, 5497, 5537, 5377, 5452, 5300, 5403 (20 hits) (09/08/2015 02:51:08 PM) |
| 35      | 9                | 1.0                 | 333.0    | Yes      | 5522.0MHz,<br>-63.0dBm      | Hop sequence: 5620, 5352, 5329, 5598, 5335, 5700, 5608, 5256, 5726, 5656, 5568, 5325, 5512, 5421, 5477, 5305, 5609, 5709, 5300, 5380, 5584, 5396, 5254, 5693, 5604, 5444, 5414, 5413, 5265, 5691, 5721, 5416, 5637, 5280, 5295, 5449, 5487, 5402, 5583, 5361, 5619, 5365, 5459, 5462, 5611, 5588, 5536, 5585, 5625, 5724, 5617, 5652, 5320, 5408, 5544, 5269, 5489, 5424, 5523, 5639, 5281, 5582, 5262, 5514, 5278, 5553, 5403, 5350, 5388, 5511, 5594, 5334, 5407, 5354, 5722, 5457, 5556, 5291, 5579, 5382, 5419, 5581, 5641, 5655, 5634, 5543, 5377, 5545, 5633, 5666, 5299, 5290, 5589, 5519, 5517, 5599, 5653, 5718, 5317, 5499 (14 hits) (09/08/2015 02:51:22 PM) |
| 36      | 9                | 1.0                 | 333.0    | Yes      | 5523.0MHz,<br>-63.0dBm      | Hop sequence: 5633, 5306, 5385, 5388, 5678, 5573, 5349, 5418, 5507, 5288, 5285, 5523, 5561, 5357, 5632, 5699, 5643, 5517, 5703, 5674, 5294, 5477, 5337, 5691, 5611, 5571, 5490,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5436, 5296, 5274, 5650, 5602, 5609, 5690, 5414, 5603, 5583, 5496, 5577, 5410, 5392, 5724, 5448, 5511, 5339, 5483, 5479, 5512, 5515, 5442, 5641, 5639, 5351, 5526, 5705, 5280, 5256, 5289, 5279, 5539, 5447, 5480, 5437, 5560, 5519, 5681, 5432, 5398, 5636, 5586, 5672, 5465, 5382, 5617, 5453, 5264, 5525, 5673, 5257, 5403, 5697, 5297, 5345, 5597, 5558, 5454, 5449, 5254, 5278, 5548, 5532, 5408, 5425, 5305, 5713, 5441, 5588, 5429, 5284, 5692 (17 hits) (09/08/2015 02:51:35 PM)                                                                                                                                                                                 |
| 37      | 9                | 1.0                 | 333.0    | Yes      | 5524.0MHz, -63.0dBm         | Hop sequence: 5341, 5648, 5711, 5570, 5673, 5605, 5567, 5697, 5519, 5573, 5554, 5277, 5430, 5655, 5407, 5580, 5466, 5488, 5343, 5506, 5270, 5365, 5691, 5626, 5603, 5273, 5288, 5680, 5464, 5352, 5716, 5561, 5392, 5415, 5421, 5251, 5456, 5271, 5572, 5583, 5663, 5318, 5302, 5382, 5310, 5701, 5475, 5299, 5370, 5264, 5657, 5537, 5650, 5267, 5563, 5521, 5686, 5349, 5280, 5606, 5315, 5590, 5493, 5555, 5676, 5646, 5721, 5478, 5704, 5257, 5546, 5717, 5664, 5255, 5347, 5333, 5290, 5329, 5326, 5525, 5523, 5422, 5359, 5380, 5373, 5449, 5440, 5638, 5625, 5441, 5304, 5569, 5483, 5539, 5557, 5622, 5420, 5698, 5379, 5342 (17 hits) (09/08/2015 02:51:48 PM) |
| 38      | 9                | 1.0                 | 333.0    | Yes      | 5525.0MHz, -63.0dBm         | Hop sequence: 5440, 5428, 5267, 5630, 5420, 5424, 5583, 5299, 5622, 5603, 5380, 5480, 5280, 5600, 5711, 5354, 5609, 5714, 5676, 5450, 5511, 5553, 5499, 5545, 5322, 5370, 5321, 5477, 5528, 5305, 5641, 5412, 5476, 5683, 5537, 5509, 5668, 5592, 5416, 5530, 5426, 5657, 5574, 5610, 5723, 5475, 5290, 5614, 5263, 5414, 5669, 5717, 5631, 5308, 5427, 5612, 5376, 5662, 5536, 5319, 5466, 5331, 5268, 5255, 5505, 5627, 5495, 5339, 5675, 5250, 5350, 5407, 5601, 5569, 5707, 5415, 5704, 5254, 5672, 5349, 5555, 5712, 5660, 5706, 5563, 5409, 5533, 5526, 5446, 5521, 5375, 5515, 5674, 5666, 5325, 5695, 5604, 5256, 5449, 5573 (18 hits) (09/08/2015 02:52:00 PM) |
| 39      | 9                | 1.0                 | 333.0    | Yes      | 5526.0MHz, -63.0dBm         | Hop sequence: 5657, 5530, 5369, 5444, 5647, 5726, 5295, 5663, 5687, 5460, 5392, 5635, 5538, 5442, 5303, 5348, 5500, 5724, 5603, 5284, 5680, 5359, 5534, 5567, 5700, 5585, 5630, 5262, 5426, 5518, 5554, 5692, 5372, 5650, 5593, 5582, 5600, 5331, 5447, 5511, 5256, 5472, 5279, 5617, 5268, 5616, 5399, 5273, 5364, 5610, 5497,                                                                                                                                                                                                                                                                                                                                         |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5430, 5421, 5390, 5264, 5522, 5583, 5661, 5481, 5260, 5722, 5541, 5298, 5683, 5516, 5614, 5706, 5302, 5553, 5648, 5684, 5675, 5639, 5283, 5674, 5595, 5455, 5679, 5310, 5642, 5441, 5395, 5699, 5681, 5532, 5625, 5565, 5382, 5568, 5483, 5423, 5637, 5323, 5403, 5346, 5374, 5316, 5305, 5618, 5473 (16 hits) (09/08/2015 02:52:14 PM)                                                                                                                                                                                                                                                                                                                                 |
| 40      | 9                | 1.0                 | 333.0    | No       | 5527.0MHz,<br>-63.0dBm      | Hop sequence: 5306, 5284, 5268, 5373, 5576, 5598, 5357, 5298, 5618, 5597, 5350, 5461, 5297, 5574, 5647, 5270, 5674, 5442, 5628, 5680, 5573, 5251, 5517, 5578, 5262, 5375, 5319, 5570, 5491, 5548, 5397, 5420, 5663, 5445, 5388, 5294, 5481, 5589, 5430, 5260, 5637, 5721, 5394, 5665, 5656, 5387, 5400, 5545, 5465, 5338, 5625, 5328, 5446, 5677, 5416, 5577, 5280, 5633, 5307, 5282, 5413, 5450, 5513, 5717, 5296, 5372, 5655, 5639, 5405, 5415, 5367, 5651, 5600, 5474, 5419, 5537, 5554, 5530, 5250, 5664, 5678, 5459, 5547, 5281, 5292, 5478, 5426, 5449, 5423, 5342, 5595, 5305, 5304, 5659, 5279, 5393, 5593, 5523, 5436, 5660 (11 hits) (09/08/2015 02:52:32 PM) |
| 41      | 9                | 1.0                 | 333.0    | Yes      | 5528.0MHz,<br>-63.0dBm      | Hop sequence: 5622, 5541, 5379, 5524, 5641, 5313, 5284, 5397, 5660, 5698, 5629, 5655, 5296, 5445, 5364, 5670, 5268, 5416, 5575, 5514, 5495, 5603, 5409, 5339, 5430, 5325, 5319, 5297, 5701, 5687, 5427, 5580, 5472, 5481, 5623, 5578, 5537, 5588, 5502, 5697, 5561, 5627, 5260, 5414, 5512, 5360, 5429, 5674, 5567, 5552, 5286, 5659, 5377, 5252, 5539, 5549, 5437, 5308, 5277, 5283, 5288, 5287, 5460, 5372, 5340, 5469, 5586, 5455, 5494, 5602, 5678, 5513, 5498, 5256, 5534, 5383, 5292, 5717, 5490, 5399, 5611, 5280, 5515, 5620, 5555, 5403, 5639, 5413, 5689, 5334, 5392, 5550, 5579, 5343, 5624, 5666, 5400, 5401, 5708, 5600 (20 hits) (09/08/2015 02:53:03 PM) |
| 42      | 9                | 1.0                 | 333.0    | Yes      | 5529.0MHz,<br>-63.0dBm      | Hop sequence: 5310, 5379, 5593, 5466, 5665, 5260, 5535, 5431, 5413, 5350, 5646, 5270, 5326, 5712, 5443, 5680, 5311, 5439, 5670, 5494, 5590, 5657, 5306, 5461, 5659, 5553, 5446, 5694, 5450, 5315, 5378, 5275, 5430, 5331, 5629, 5530, 5305, 5576, 5661, 5668, 5373, 5663, 5709, 5394, 5568, 5571, 5594, 5455, 5345, 5322, 5589, 5407, 5517, 5607, 5555, 5488, 5617, 5608, 5444, 5281, 5642, 5434, 5418, 5428, 5346, 5470, 5577, 5359, 5259, 5432, 5725, 5689, 5681, 5343, 5679,                                                                                                                                                                                         |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5342, 5366, 5631, 5371, 5401, 5572, 5456, 5353, 5442, 5368, 5372, 5604, 5286, 5696, 5574, 5391, 5319, 5692, 5531, 5592, 5588, 5708, 5538, 5416, 5280 (9 hits) (09/08/2015 02:53:22 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 43      | 9                | 1.0                 | 333.0    | Yes      | 5530.0MHz,<br>-63.0dBm      | Hop sequence: 5663, 5598, 5421, 5318, 5511, 5621, 5564, 5363, 5267, 5344, 5545, 5492, 5721, 5588, 5578, 5415, 5402, 5496, 5338, 5691, 5375, 5483, 5324, 5479, 5355, 5281, 5682, 5313, 5657, 5608, 5618, 5684, 5572, 5698, 5513, 5403, 5700, 5265, 5546, 5405, 5653, 5651, 5509, 5349, 5585, 5712, 5639, 5272, 5294, 5523, 5323, 5559, 5724, 5581, 5462, 5534, 5540, 5500, 5571, 5717, 5382, 5646, 5371, 5253, 5300, 5655, 5589, 5610, 5457, 5392, 5609, 5443, 5388, 5614, 5656, 5412, 5695, 5439, 5528, 5394, 5401, 5683, 5583, 5647, 5379, 5420, 5370, 5328, 5516, 5288, 5597, 5441, 5353, 5577, 5343, 5320, 5454, 5258, 5358, 5634 (15 hits) (09/08/2015 02:54:07 PM) |
| 44      | 9                | 1.0                 | 333.0    | Yes      | 5531.0MHz,<br>-63.0dBm      | Hop sequence: 5680, 5460, 5502, 5279, 5358, 5370, 5268, 5400, 5670, 5523, 5486, 5319, 5558, 5293, 5563, 5684, 5556, 5329, 5352, 5254, 5470, 5654, 5649, 5435, 5452, 5508, 5350, 5713, 5646, 5589, 5634, 5367, 5648, 5716, 5333, 5384, 5660, 5332, 5394, 5436, 5527, 5383, 5696, 5422, 5389, 5458, 5721, 5411, 5510, 5427, 5339, 5616, 5595, 5398, 5471, 5264, 5257, 5446, 5404, 5691, 5613, 5513, 5291, 5633, 5689, 5303, 5281, 5272, 5517, 5337, 5312, 5391, 5256, 5351, 5354, 5640, 5619, 5418, 5705, 5408, 5570, 5637, 5653, 5581, 5334, 5409, 5610, 5678, 5386, 5557, 5406, 5593, 5623, 5326, 5405, 5253, 5315, 5490, 5276, 5565 (14 hits) (09/08/2015 02:54:24 PM) |
| 45      | 9                | 1.0                 | 333.0    | Yes      | 5532.0MHz,<br>-63.0dBm      | Hop sequence: 5659, 5533, 5535, 5437, 5322, 5694, 5598, 5453, 5410, 5485, 5673, 5349, 5542, 5577, 5392, 5531, 5312, 5560, 5475, 5383, 5377, 5544, 5403, 5273, 5575, 5571, 5265, 5717, 5508, 5516, 5430, 5417, 5347, 5657, 5466, 5682, 5548, 5683, 5331, 5568, 5415, 5490, 5362, 5335, 5615, 5569, 5529, 5661, 5464, 5372, 5670, 5482, 5442, 5289, 5282, 5686, 5559, 5588, 5256, 5630, 5311, 5285, 5681, 5722, 5660, 5441, 5461, 5723, 5691, 5721, 5650, 5398, 5488, 5527, 5611, 5695, 5369, 5371, 5391, 5557, 5483, 5539, 5375, 5644, 5641, 5455, 5449, 5585, 5320, 5460, 5565, 5429, 5647, 5276, 5525, 5284, 5616, 5672, 5253,                                         |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5425 (19 hits) (09/08/2015 02:54:38 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 46      | 9                | 1.0                 | 333.0    | Yes      | 5533.0MHz,<br>-63.0dBm      | Hop sequence: 5358, 5447, 5654, 5500, 5492, 5566, 5570, 5575, 5672, 5488, 5346, 5553, 5465, 5682, 5325, 5588, 5681, 5689, 5701, 5418, 5373, 5658, 5491, 5294, 5612, 5687, 5400, 5584, 5378, 5552, 5637, 5258, 5633, 5350, 5411, 5344, 5383, 5594, 5598, 5423, 5511, 5522, 5711, 5693, 5332, 5334, 5599, 5437, 5264, 5572, 5338, 5393, 5712, 5635, 5321, 5389, 5473, 5675, 5697, 5604, 5370, 5543, 5435, 5527, 5421, 5517, 5608, 5624, 5302, 5269, 5683, 5589, 5250, 5341, 5484, 5276, 5281, 5724, 5622, 5384, 5253, 5549, 5661, 5267, 5631, 5480, 5382, 5361, 5702, 5353, 5278, 5388, 5433, 5569, 5578, 5343, 5715, 5477, 5323, 5497 (15 hits) (09/08/2015 02:54:53 PM) |
| 47      | 9                | 1.0                 | 333.0    | Yes      | 5534.0MHz,<br>-63.0dBm      | Hop sequence: 5327, 5283, 5318, 5700, 5562, 5496, 5653, 5589, 5460, 5698, 5504, 5363, 5467, 5643, 5378, 5455, 5454, 5417, 5552, 5523, 5413, 5651, 5547, 5478, 5430, 5340, 5328, 5409, 5257, 5625, 5506, 5314, 5329, 5256, 5272, 5602, 5349, 5437, 5393, 5612, 5597, 5431, 5693, 5493, 5604, 5556, 5494, 5357, 5366, 5371, 5657, 5385, 5287, 5603, 5621, 5614, 5412, 5406, 5701, 5601, 5609, 5565, 5383, 5644, 5282, 5444, 5446, 5607, 5631, 5298, 5717, 5294, 5474, 5251, 5296, 5395, 5429, 5555, 5575, 5358, 5679, 5626, 5495, 5608, 5713, 5613, 5369, 5275, 5419, 5723, 5691, 5440, 5339, 5381, 5252, 5316, 5482, 5279, 5347, 5704 (13 hits) (09/08/2015 02:55:15 PM) |
| 48      | 9                | 1.0                 | 333.0    | Yes      | 5535.0MHz,<br>-63.0dBm      | Hop sequence: 5434, 5628, 5550, 5598, 5316, 5624, 5535, 5259, 5465, 5320, 5426, 5701, 5319, 5511, 5573, 5667, 5294, 5330, 5405, 5363, 5265, 5326, 5325, 5620, 5349, 5557, 5353, 5372, 5698, 5420, 5277, 5462, 5582, 5409, 5272, 5310, 5469, 5298, 5262, 5479, 5712, 5538, 5486, 5374, 5592, 5485, 5706, 5276, 5555, 5627, 5463, 5723, 5545, 5684, 5268, 5530, 5435, 5500, 5725, 5293, 5529, 5509, 5318, 5657, 5523, 5525, 5610, 5537, 5575, 5544, 5556, 5651, 5639, 5613, 5605, 5542, 5676, 5282, 5597, 5631, 5255, 5679, 5480, 5451, 5377, 5301, 5360, 5558, 5682, 5370, 5648, 5392, 5566, 5658, 5417, 5459, 5524, 5396, 5429, 5329 (20 hits) (09/08/2015 02:55:31 PM) |
| 49      | 9                | 1.0                 | 333.0    | Yes      | 5536.0MHz,<br>-63.0dBm      | Hop sequence: 5315, 5288, 5598, 5584, 5274, 5691, 5504, 5522, 5666,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5657, 5475, 5499, 5392, 5462, 5349, 5441, 5282, 5390, 5403, 5533, 5457, 5476, 5483, 5610, 5279, 5438, 5575, 5452, 5399, 5319, 5681, 5303, 5433, 5329, 5398, 5602, 5700, 5689, 5320, 5298, 5447, 5659, 5570, 5397, 5468, 5721, 5350, 5485, 5389, 5557, 5701, 5448, 5436, 5328, 5698, 5591, 5532, 5310, 5465, 5505, 5449, 5491, 5518, 5611, 5641, 5660, 5697, 5295, 5311, 5331, 5290, 5381, 5401, 5375, 5251, 5428, 5275, 5520, 5535, 5630, 5411, 5551, 5629, 5675, 5301, 5498, 5488, 5528, 5676, 5720, 5595, 5651, 5266, 5479, 5560, 5419, 5626, 5712, 5723, 5437 (16 hits) (09/08/2015 02:56:31 PM)                                                                     |
| 50      | 9                | 1.0                 | 333.0    | Yes      | 5537.0MHz, -63.0dBm         | Hop sequence: 5664, 5324, 5483, 5496, 5269, 5723, 5601, 5652, 5506, 5481, 5459, 5295, 5699, 5435, 5260, 5509, 5531, 5311, 5605, 5484, 5419, 5690, 5340, 5583, 5719, 5457, 5674, 5479, 5609, 5358, 5684, 5525, 5685, 5572, 5388, 5534, 5420, 5475, 5569, 5721, 5510, 5480, 5450, 5321, 5611, 5628, 5305, 5672, 5367, 5678, 5606, 5433, 5543, 5498, 5438, 5306, 5623, 5657, 5328, 5560, 5293, 5608, 5447, 5322, 5554, 5319, 5489, 5392, 5589, 5422, 5553, 5464, 5592, 5437, 5492, 5535, 5335, 5327, 5602, 5314, 5555, 5461, 5673, 5667, 5501, 5564, 5545, 5658, 5256, 5595, 5373, 5370, 5694, 5565, 5625, 5619, 5294, 5537, 5365, 5495 (22 hits) (09/08/2015 02:56:51 PM) |
| 51      | 9                | 1.0                 | 333.0    | Yes      | 5538.0MHz, -63.0dBm         | Hop sequence: 5281, 5678, 5395, 5297, 5500, 5477, 5679, 5558, 5285, 5674, 5628, 5436, 5429, 5403, 5280, 5386, 5400, 5268, 5432, 5328, 5279, 5405, 5433, 5619, 5359, 5655, 5589, 5690, 5270, 5600, 5598, 5622, 5288, 5494, 5526, 5474, 5611, 5695, 5518, 5265, 5340, 5257, 5505, 5714, 5503, 5609, 5473, 5490, 5684, 5675, 5724, 5418, 5295, 5708, 5388, 5368, 5487, 5501, 5315, 5541, 5528, 5472, 5404, 5529, 5396, 5319, 5354, 5478, 5669, 5716, 5693, 5425, 5707, 5515, 5329, 5639, 5637, 5338, 5506, 5546, 5630, 5441, 5397, 5427, 5349, 5560, 5559, 5625, 5406, 5545, 5534, 5566, 5626, 5632, 5410, 5471, 5641, 5365, 5634, 5252 (20 hits) (09/08/2015 02:57:05 PM) |
| 52      | 9                | 1.0                 | 333.0    | Yes      | 5539.0MHz, -63.0dBm         | Hop sequence: 5651, 5468, 5455, 5678, 5360, 5536, 5723, 5313, 5355, 5561, 5359, 5301, 5666, 5520, 5274, 5333, 5283, 5382, 5380, 5689, 5493, 5456, 5551, 5422, 5628, 5471, 5513, 5347, 5574, 5498, 5463, 5291, 5514,                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5685, 5346, 5403, 5595, 5266, 5261, 5709, 5721, 5724, 5601, 5510, 5615, 5256, 5368, 5679, 5583, 5352, 5442, 5605, 5697, 5591, 5436, 5652, 5494, 5491, 5610, 5391, 5669, 5664, 5424, 5441, 5672, 5671, 5478, 5621, 5553, 5500, 5604, 5573, 5303, 5484, 5566, 5328, 5620, 5371, 5657, 5414, 5586, 5719, 5289, 5430, 5279, 5499, 5556, 5533, 5546, 5324, 5711, 5543, 5720, 5376, 5312, 5710, 5618, 5655, 5372, 5298 (19 hits) (09/08/2015 02:57:17 PM)                                                                                                                                                                                                                     |
| 53      | 9                | 1.0                 | 333.0    | Yes      | 5540.0MHz,<br>-63.0dBm      | Hop sequence: 5657, 5641, 5704, 5580, 5282, 5448, 5491, 5342, 5297, 5609, 5287, 5303, 5262, 5630, 5416, 5477, 5458, 5398, 5484, 5443, 5360, 5542, 5613, 5631, 5664, 5628, 5460, 5695, 5308, 5502, 5251, 5689, 5635, 5428, 5385, 5413, 5486, 5331, 5638, 5625, 5572, 5440, 5290, 5639, 5305, 5581, 5577, 5292, 5645, 5464, 5601, 5478, 5626, 5718, 5578, 5344, 5327, 5455, 5563, 5495, 5724, 5263, 5489, 5506, 5673, 5558, 5418, 5257, 5605, 5408, 5555, 5663, 5684, 5633, 5389, 5336, 5274, 5507, 5564, 5573, 5323, 5252, 5510, 5409, 5445, 5467, 5430, 5614, 5260, 5415, 5666, 5298, 5258, 5624, 5565, 5459, 5391, 5329, 5707, 5268 (12 hits) (09/08/2015 02:57:30 PM) |
| 54      | 9                | 1.0                 | 333.0    | Yes      | 5541.0MHz,<br>-63.0dBm      | Hop sequence: 5502, 5289, 5558, 5661, 5457, 5393, 5470, 5370, 5508, 5366, 5416, 5405, 5395, 5314, 5576, 5259, 5254, 5402, 5454, 5629, 5509, 5256, 5518, 5354, 5692, 5686, 5408, 5353, 5680, 5488, 5719, 5557, 5667, 5440, 5687, 5567, 5433, 5324, 5455, 5561, 5593, 5551, 5693, 5513, 5512, 5333, 5574, 5318, 5403, 5568, 5288, 5673, 5261, 5621, 5321, 5387, 5345, 5418, 5266, 5352, 5320, 5586, 5649, 5394, 5544, 5272, 5297, 5458, 5565, 5374, 5362, 5327, 5647, 5711, 5674, 5305, 5428, 5723, 5365, 5375, 5600, 5303, 5255, 5460, 5322, 5651, 5410, 5309, 5569, 5572, 5252, 5282, 5560, 5461, 5611, 5378, 5484, 5636, 5582, 5579 (16 hits) (09/08/2015 02:57:42 PM) |
| 55      | 9                | 1.0                 | 333.0    | Yes      | 5542.0MHz,<br>-63.0dBm      | Hop sequence: 5260, 5387, 5542, 5259, 5308, 5314, 5342, 5424, 5480, 5700, 5305, 5365, 5371, 5645, 5595, 5252, 5406, 5284, 5392, 5616, 5579, 5263, 5613, 5462, 5298, 5673, 5611, 5269, 5521, 5301, 5565, 5300, 5612, 5568, 5654, 5489, 5486, 5470, 5598, 5522, 5713, 5561, 5696, 5320, 5615, 5398, 5309, 5328, 5417, 5471, 5350, 5709, 5678, 5691, 5267, 5722, 5507,                                                                                                                                                                                                                                                                                                     |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5382, 5337, 5699, 5443, 5335, 5322, 5508, 5433, 5539, 5685, 5369, 5560, 5599, 5622, 5323, 5317, 5492, 5592, 5292, 5354, 5373, 5689, 5536, 5587, 5266, 5724, 5276, 5558, 5271, 5306, 5427, 5687, 5295, 5641, 5628, 5640, 5421, 5431, 5416, 5646, 5626, 5390, 5325 (13 hits) (09/08/2015 02:57:55 PM)                                                                                                                                                                                                                                                                                                                                                                     |
| 56      | 9                | 1.0                 | 333.0    | No       | 5543.0MHz,<br>-63.0dBm      | Hop sequence: 5580, 5449, 5545, 5348, 5682, 5391, 5637, 5723, 5396, 5476, 5607, 5319, 5408, 5720, 5274, 5406, 5304, 5393, 5415, 5273, 5416, 5501, 5310, 5452, 5525, 5579, 5698, 5636, 5519, 5507, 5338, 5335, 5281, 5361, 5688, 5389, 5439, 5548, 5252, 5650, 5663, 5293, 5327, 5322, 5412, 5488, 5480, 5308, 5632, 5493, 5662, 5253, 5618, 5309, 5596, 5410, 5316, 5643, 5295, 5417, 5321, 5270, 5717, 5260, 5550, 5306, 5307, 5350, 5529, 5570, 5419, 5353, 5598, 5259, 5541, 5640, 5467, 5655, 5374, 5276, 5489, 5330, 5268, 5271, 5684, 5477, 5681, 5343, 5320, 5593, 5430, 5457, 5349, 5718, 5676, 5513, 5551, 5648, 5557, 5376 (14 hits) (09/08/2015 02:58:08 PM) |
| 57      | 9                | 1.0                 | 333.0    | Yes      | 5544.0MHz,<br>-63.0dBm      | Hop sequence: 5286, 5675, 5518, 5540, 5396, 5567, 5715, 5619, 5659, 5260, 5363, 5698, 5514, 5630, 5541, 5516, 5707, 5629, 5608, 5322, 5438, 5714, 5316, 5646, 5597, 5340, 5700, 5621, 5333, 5323, 5461, 5680, 5667, 5256, 5299, 5336, 5473, 5725, 5549, 5369, 5581, 5563, 5723, 5442, 5654, 5462, 5310, 5466, 5652, 5672, 5319, 5500, 5330, 5342, 5287, 5512, 5455, 5303, 5294, 5556, 5671, 5553, 5353, 5615, 5650, 5448, 5596, 5498, 5386, 5708, 5624, 5350, 5366, 5573, 5345, 5351, 5453, 5259, 5385, 5685, 5344, 5609, 5583, 5591, 5361, 5590, 5507, 5399, 5313, 5521, 5527, 5418, 5375, 5479, 5267, 5720, 5474, 5534, 5476, 5607 (17 hits) (09/08/2015 02:58:26 PM) |
| 58      | 9                | 1.0                 | 333.0    | Yes      | 5545.0MHz,<br>-63.0dBm      | Hop sequence: 5455, 5308, 5421, 5661, 5566, 5355, 5458, 5522, 5371, 5393, 5687, 5502, 5587, 5710, 5372, 5397, 5384, 5670, 5329, 5302, 5579, 5658, 5486, 5532, 5519, 5609, 5524, 5442, 5306, 5293, 5512, 5415, 5426, 5338, 5265, 5378, 5259, 5696, 5267, 5560, 5679, 5684, 5590, 5321, 5565, 5475, 5252, 5317, 5349, 5399, 5641, 5481, 5332, 5709, 5636, 5375, 5471, 5258, 5333, 5360, 5561, 5339, 5304, 5695, 5554, 5257, 5708, 5664, 5588, 5538, 5719, 5314, 5562, 5460, 5564, 5482, 5276, 5657, 5395, 5699, 5465,                                                                                                                                                     |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5368, 5260, 5576, 5725, 5678, 5473, 5557, 5294, 5545, 5675, 5598, 5398, 5577, 5268, 5485, 5479, 5256, 5484, 5382 (16 hits) (09/08/2015 02:58:50 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 59      | 9                | 1.0                 | 333.0    | Yes      | 5546.0MHz,<br>-63.0dBm      | Hop sequence: 5650, 5528, 5531, 5641, 5551, 5526, 5333, 5435, 5564, 5268, 5466, 5413, 5669, 5495, 5309, 5313, 5470, 5721, 5720, 5607, 5493, 5645, 5603, 5577, 5497, 5295, 5387, 5553, 5410, 5343, 5273, 5279, 5420, 5451, 5351, 5694, 5706, 5710, 5666, 5440, 5680, 5534, 5620, 5291, 5515, 5307, 5366, 5700, 5473, 5698, 5557, 5267, 5432, 5258, 5537, 5658, 5514, 5533, 5483, 5507, 5639, 5260, 5315, 5311, 5676, 5570, 5600, 5403, 5594, 5327, 5262, 5425, 5426, 5613, 5708, 5542, 5516, 5290, 5567, 5270, 5610, 5436, 5652, 5584, 5421, 5655, 5272, 5449, 5552, 5285, 5310, 5469, 5671, 5508, 5529, 5406, 5342, 5726, 5252, 5372 (23 hits) (09/08/2015 02:59:10 PM) |
| 60      | 9                | 1.0                 | 333.0    | Yes      | 5547.0MHz,<br>-63.0dBm      | Hop sequence: 5711, 5578, 5343, 5491, 5718, 5628, 5691, 5296, 5350, 5579, 5449, 5633, 5577, 5688, 5595, 5277, 5643, 5288, 5594, 5707, 5328, 5409, 5426, 5540, 5459, 5448, 5604, 5497, 5290, 5596, 5541, 5339, 5256, 5576, 5270, 5654, 5708, 5682, 5268, 5722, 5348, 5695, 5548, 5583, 5692, 5312, 5637, 5398, 5511, 5259, 5444, 5445, 5549, 5391, 5265, 5575, 5634, 5653, 5469, 5558, 5498, 5474, 5542, 5568, 5286, 5401, 5626, 5631, 5552, 5272, 5572, 5284, 5330, 5381, 5306, 5308, 5480, 5649, 5478, 5684, 5332, 5700, 5403, 5703, 5266, 5588, 5250, 5489, 5257, 5475, 5584, 5282, 5425, 5527, 5291, 5694, 5427, 5399, 5415, 5397 (13 hits) (09/08/2015 02:59:52 PM) |
| 61      | 9                | 1.0                 | 333.0    | Yes      | 5548.0MHz,<br>-63.0dBm      | Hop sequence: 5435, 5311, 5501, 5339, 5478, 5308, 5447, 5545, 5617, 5296, 5708, 5486, 5328, 5460, 5628, 5323, 5660, 5381, 5304, 5419, 5278, 5684, 5557, 5482, 5418, 5711, 5321, 5572, 5690, 5640, 5475, 5455, 5306, 5528, 5604, 5583, 5554, 5316, 5417, 5400, 5279, 5612, 5436, 5450, 5310, 5627, 5377, 5370, 5535, 5425, 5347, 5290, 5626, 5710, 5509, 5399, 5333, 5505, 5594, 5503, 5670, 5454, 5375, 5493, 5695, 5698, 5663, 5517, 5429, 5689, 5685, 5488, 5330, 5458, 5326, 5704, 5499, 5494, 5567, 5313, 5351, 5565, 5490, 5532, 5324, 5700, 5634, 5269, 5688, 5674, 5709, 5525, 5529, 5335, 5409, 5706, 5320, 5371, 5367, 5681 (19 hits) (09/08/2015 03:00:05 PM) |

| Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                         | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                 |                  |                     |          |          |                             | PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 62                                                              | 9                | 1.0                 | 333.0    | Yes      | 5549.0MHz,<br>-63.0dBm      | Hop sequence: 5306, 5289, 5502,<br>5569, 5589, 5624, 5676, 5691, 5566,<br>5292, 5699, 5545, 5464, 5677, 5656,<br>5423, 5696, 5533, 5531, 5491, 5337,<br>5660, 5377, 5284, 5436, 5651, 5420,<br>5633, 5441, 5310, 5492, 5641, 5293,<br>5370, 5290, 5665, 5301, 5443, 5286,<br>5515, 5402, 5363, 5619, 5498, 5379,<br>5259, 5648, 5450, 5558, 5438, 5271,<br>5600, 5347, 5463, 5479, 5448, 5663,<br>5267, 5725, 5253, 5642, 5675, 5695,<br>5276, 5333, 5585, 5368, 5435, 5322,<br>5458, 5563, 5341, 5560, 5615, 5453,<br>5356, 5446, 5673, 5577, 5611, 5620,<br>5643, 5467, 5622, 5268, 5683, 5719,<br>5578, 5459, 5543, 5309, 5329, 5655,<br>5712, 5649, 5525, 5275, 5631, 5429,<br>5547 (16 hits) (09/08/2015 03:00:20<br>PM) |
| 63                                                              | 9                | 1.0                 | 333.0    | Yes      | 5550.0MHz,<br>-63.0dBm      | Hop sequence: 5418, 5694, 5663,<br>5476, 5615, 5627, 5643, 5419, 5486,<br>5668, 5528, 5690, 5431, 5695, 5392,<br>5644, 5527, 5691, 5510, 5349, 5294,<br>5514, 5654, 5404, 5725, 5385, 5316,<br>5688, 5554, 5283, 5328, 5270, 5369,<br>5424, 5390, 5474, 5584, 5592, 5598,<br>5517, 5303, 5701, 5628, 5611, 5282,<br>5658, 5306, 5329, 5260, 5596, 5346,<br>5494, 5342, 5447, 5355, 5382, 5414,<br>5292, 5453, 5567, 5320, 5713, 5442,<br>5408, 5565, 5548, 5341, 5463, 5698,<br>5466, 5518, 5343, 5402, 5714, 5560,<br>5425, 5660, 5335, 5266, 5636, 5490,<br>5559, 5358, 5721, 5641, 5479, 5543,<br>5464, 5561, 5310, 5264, 5532, 5508,<br>5570, 5484, 5367, 5253, 5313, 5687,<br>5334 (19 hits) (09/08/2015 03:00:32<br>PM) |
| 64                                                              | 9                | 1.0                 | 333.0    | Yes      | 5551.0MHz,<br>-63.0dBm      | Hop sequence: 5436, 5289, 5345,<br>5538, 5420, 5658, 5273, 5685, 5518,<br>5509, 5692, 5405, 5422, 5410, 5703,<br>5669, 5384, 5547, 5541, 5455, 5717,<br>5704, 5303, 5339, 5296, 5483, 5587,<br>5489, 5457, 5628, 5398, 5361, 5721,<br>5573, 5275, 5614, 5443, 5350, 5599,<br>5626, 5629, 5363, 5588, 5519, 5458,<br>5674, 5514, 5492, 5375, 5506, 5500,<br>5539, 5433, 5265, 5356, 5292, 5656,<br>5344, 5401, 5254, 5262, 5426, 5634,<br>5637, 5495, 5699, 5590, 5446, 5691,<br>5555, 5594, 5720, 5320, 5311, 5534,<br>5677, 5557, 5561, 5486, 5684, 5612,<br>5379, 5389, 5442, 5526, 5694, 5378,<br>5319, 5253, 5386, 5396, 5261, 5342,<br>5250, 5584, 5725, 5257, 5718, 5464,<br>5298 (17 hits) (09/08/2015 03:00:49<br>PM) |
| 65                                                              | 9                | 1.0                 | 333.0    | Yes      | 5552.0MHz,<br>-63.0dBm      | Hop sequence: 5339, 5268, 5377,<br>5443, 5534, 5499, 5299, 5479, 5583,<br>5383, 5587, 5435, 5329, 5318, 5375,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5386, 5373, 5438, 5463, 5621, 5642, 5391, 5367, 5521, 5692, 5649, 5303, 5347, 5685, 5667, 5541, 5582, 5461, 5310, 5384, 5716, 5641, 5256, 5494, 5324, 5458, 5317, 5576, 5573, 5626, 5275, 5457, 5572, 5704, 5663, 5625, 5548, 5396, 5647, 5363, 5659, 5290, 5690, 5599, 5472, 5297, 5342, 5289, 5420, 5552, 5666, 5550, 5540, 5455, 5286, 5449, 5333, 5611, 5503, 5509, 5603, 5497, 5330, 5411, 5554, 5334, 5374, 5529, 5504, 5453, 5452, 5341, 5309, 5279, 5481, 5260, 5539, 5308, 5399, 5538, 5678, 5588, 5604, 5584, 5575 (17 hits) (09/08/2015 03:01:03 PM)                                                                                                         |
| 66      | 9                | 1.0                 | 333.0    | No       | 5553.0MHz,<br>-63.0dBm      | Hop sequence: 5294, 5571, 5621, 5641, 5299, 5661, 5725, 5323, 5652, 5511, 5519, 5658, 5313, 5268, 5497, 5317, 5474, 5389, 5625, 5417, 5673, 5267, 5335, 5603, 5415, 5412, 5671, 5447, 5346, 5681, 5604, 5552, 5692, 5500, 5544, 5312, 5431, 5275, 5385, 5703, 5555, 5250, 5533, 5599, 5702, 5340, 5297, 5707, 5428, 5358, 5413, 5686, 5378, 5558, 5524, 5596, 5307, 5352, 5635, 5282, 5642, 5329, 5288, 5545, 5669, 5589, 5633, 5718, 5617, 5677, 5438, 5653, 5375, 5368, 5714, 5534, 5525, 5528, 5414, 5501, 5372, 5482, 5564, 5499, 5618, 5426, 5721, 5506, 5705, 5516, 5592, 5620, 5510, 5458, 5425, 5390, 5276, 5370, 5667, 5487 (20 hits) (09/08/2015 03:01:36 PM) |
| 67      | 9                | 1.0                 | 333.0    | Yes      | 5554.0MHz,<br>-63.0dBm      | Hop sequence: 5636, 5576, 5432, 5306, 5356, 5405, 5670, 5343, 5309, 5580, 5682, 5697, 5528, 5365, 5447, 5688, 5599, 5383, 5358, 5430, 5568, 5509, 5411, 5620, 5495, 5362, 5255, 5518, 5546, 5700, 5680, 5251, 5427, 5595, 5531, 5437, 5438, 5707, 5724, 5393, 5389, 5668, 5399, 5307, 5334, 5643, 5491, 5658, 5516, 5715, 5302, 5575, 5366, 5445, 5677, 5308, 5273, 5708, 5440, 5641, 5631, 5571, 5672, 5681, 5673, 5579, 5714, 5489, 5587, 5353, 5367, 5369, 5408, 5692, 5602, 5515, 5269, 5522, 5395, 5618, 5357, 5525, 5476, 5539, 5301, 5431, 5596, 5398, 5354, 5340, 5474, 5339, 5648, 5704, 5460, 5403, 5287, 5726, 5635, 5394 (13 hits) (09/08/2015 03:01:56 PM) |
| 68      | 9                | 1.0                 | 333.0    | Yes      | 5555.0MHz,<br>-63.0dBm      | Hop sequence: 5583, 5508, 5514, 5396, 5525, 5289, 5352, 5303, 5590, 5484, 5662, 5719, 5485, 5623, 5432, 5555, 5343, 5345, 5581, 5394, 5661, 5520, 5655, 5607, 5594, 5649, 5349, 5460, 5707, 5482, 5575, 5640, 5441, 5599, 5641, 5353, 5326, 5304, 5526,                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5435, 5700, 5276, 5487, 5626, 5625, 5521, 5262, 5355, 5553, 5420, 5390, 5551, 5679, 5384, 5677, 5653, 5298, 5705, 5273, 5654, 5288, 5658, 5509, 5706, 5634, 5650, 5467, 5389, 5717, 5544, 5680, 5438, 5274, 5624, 5725, 5320, 5318, 5259, 5643, 5359, 5670, 5556, 5475, 5421, 5434, 5293, 5443, 5414, 5565, 5503, 5336, 5309, 5671, 5278, 5268, 5350, 5447, 5529, 5593, 5486 (15 hits) (09/08/2015 03:02:10 PM)                                                                                                                                                                                                                                                         |
| 69      | 9                | 1.0                 | 333.0    | Yes      | 5556.0MHz,<br>-63.0dBm      | Hop sequence: 5545, 5369, 5503, 5682, 5471, 5689, 5361, 5422, 5454, 5715, 5265, 5390, 5404, 5495, 5374, 5394, 5279, 5712, 5694, 5266, 5482, 5359, 5285, 5640, 5702, 5300, 5498, 5357, 5431, 5514, 5474, 5654, 5349, 5283, 5368, 5683, 5617, 5268, 5287, 5594, 5259, 5688, 5262, 5567, 5513, 5652, 5410, 5289, 5520, 5436, 5467, 5344, 5408, 5555, 5625, 5542, 5586, 5665, 5437, 5699, 5539, 5659, 5564, 5423, 5523, 5658, 5460, 5692, 5536, 5705, 5335, 5574, 5400, 5604, 5426, 5345, 5716, 5595, 5661, 5579, 5430, 5641, 5457, 5402, 5502, 5291, 5264, 5256, 5671, 5649, 5326, 5624, 5435, 5565, 5481, 5367, 5330, 5365, 5293, 5477 (16 hits) (09/08/2015 03:02:25 PM) |
| 70      | 9                | 1.0                 | 333.0    | Yes      | 5557.0MHz,<br>-63.0dBm      | Hop sequence: 5719, 5704, 5572, 5386, 5300, 5636, 5668, 5369, 5593, 5715, 5330, 5344, 5566, 5251, 5460, 5349, 5531, 5685, 5547, 5723, 5555, 5280, 5357, 5325, 5361, 5598, 5419, 5511, 5582, 5380, 5716, 5661, 5670, 5726, 5695, 5496, 5497, 5359, 5696, 5482, 5540, 5253, 5620, 5399, 5590, 5698, 5436, 5314, 5608, 5274, 5457, 5533, 5544, 5599, 5516, 5488, 5674, 5350, 5653, 5705, 5517, 5676, 5312, 5680, 5662, 5351, 5446, 5358, 5693, 5697, 5666, 5637, 5625, 5304, 5388, 5541, 5522, 5374, 5581, 5438, 5298, 5700, 5534, 5443, 5557, 5428, 5432, 5290, 5430, 5431, 5281, 5307, 5490, 5403, 5297, 5470, 5682, 5526, 5326, 5665 (18 hits) (09/08/2015 03:02:37 PM) |
| 71      | 9                | 1.0                 | 333.0    | Yes      | 5558.0MHz,<br>-63.0dBm      | Hop sequence: 5371, 5607, 5401, 5443, 5302, 5615, 5387, 5720, 5313, 5342, 5550, 5323, 5291, 5541, 5520, 5439, 5595, 5292, 5452, 5602, 5304, 5467, 5396, 5441, 5366, 5349, 5265, 5583, 5643, 5572, 5386, 5348, 5632, 5510, 5658, 5278, 5546, 5358, 5315, 5715, 5307, 5254, 5640, 5410, 5336, 5398, 5564, 5588, 5497, 5700, 5478, 5584, 5487, 5526, 5702, 5591, 5272, 5531, 5543, 5281, 5507, 5596, 5628,                                                                                                                                                                                                                                                                 |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5416, 5288, 5380, 5261, 5421, 5488, 5356, 5293, 5694, 5455, 5324, 5482, 5447, 5631, 5466, 5666, 5601, 5274, 5298, 5547, 5650, 5538, 5328, 5590, 5317, 5414, 5332, 5684, 5258, 5625, 5271, 5400, 5415, 5310, 5620, 5586, 5656 (13 hits) (09/08/2015 03:02:51 PM)                                                                                                                                                                                                                                                                                                                                                                                                         |
| 72      | 9                | 1.0                 | 333.0    | Yes      | 5559.0MHz,<br>-63.0dBm      | Hop sequence: 5655, 5440, 5571, 5463, 5474, 5414, 5373, 5490, 5369, 5601, 5453, 5622, 5703, 5436, 5384, 5295, 5566, 5700, 5673, 5400, 5634, 5717, 5276, 5260, 5476, 5640, 5427, 5358, 5499, 5272, 5329, 5343, 5588, 5707, 5627, 5492, 5461, 5551, 5631, 5530, 5504, 5553, 5555, 5701, 5536, 5517, 5287, 5408, 5398, 5435, 5360, 5577, 5300, 5581, 5540, 5370, 5637, 5445, 5592, 5643, 5451, 5582, 5512, 5602, 5665, 5495, 5363, 5449, 5547, 5299, 5409, 5597, 5666, 5599, 5684, 5677, 5327, 5603, 5541, 5393, 5712, 5325, 5425, 5259, 5310, 5511, 5562, 5590, 5533, 5374, 5604, 5630, 5503, 5488, 5567, 5613, 5656, 5494, 5258, 5454 (22 hits) (09/08/2015 03:03:07 PM) |
| 73      | 9                | 1.0                 | 333.0    | Yes      | 5560.0MHz,<br>-63.0dBm      | Hop sequence: 5557, 5608, 5611, 5438, 5314, 5607, 5385, 5291, 5490, 5511, 5342, 5467, 5436, 5592, 5264, 5354, 5570, 5663, 5324, 5474, 5312, 5711, 5338, 5682, 5374, 5567, 5619, 5434, 5305, 5451, 5411, 5568, 5524, 5446, 5257, 5294, 5337, 5714, 5646, 5461, 5393, 5303, 5635, 5441, 5657, 5621, 5553, 5315, 5259, 5459, 5688, 5345, 5599, 5426, 5704, 5278, 5517, 5468, 5512, 5558, 5336, 5653, 5402, 5539, 5628, 5700, 5331, 5674, 5457, 5406, 5435, 5491, 5258, 5443, 5643, 5477, 5418, 5452, 5472, 5252, 5396, 5719, 5433, 5479, 5277, 5691, 5696, 5501, 5633, 5701, 5251, 5322, 5505, 5604, 5416, 5672, 5572, 5545, 5676, 5560 (17 hits) (09/08/2015 03:03:20 PM) |
| 74      | 9                | 1.0                 | 333.0    | Yes      | 5561.0MHz,<br>-63.0dBm      | Hop sequence: 5464, 5256, 5658, 5689, 5534, 5372, 5421, 5650, 5497, 5428, 5294, 5489, 5482, 5306, 5342, 5584, 5557, 5707, 5341, 5275, 5709, 5320, 5502, 5508, 5399, 5326, 5344, 5394, 5449, 5620, 5454, 5458, 5517, 5671, 5287, 5609, 5387, 5307, 5467, 5641, 5575, 5700, 5273, 5390, 5659, 5640, 5411, 5300, 5516, 5296, 5724, 5422, 5359, 5660, 5322, 5711, 5651, 5469, 5555, 5719, 5630, 5365, 5312, 5613, 5329, 5617, 5437, 5405, 5561, 5406, 5605, 5530, 5448, 5486, 5353, 5511, 5505, 5637, 5604, 5629, 5626, 5253, 5686, 5702, 5321, 5649, 5594,                                                                                                                 |

**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                  |                     |          |          |                             | 5314, 5305, 5351, 5598, 5726, 5522, 5624, 5504, 5550, 5652, 5471, 5636, 5698 (15 hits) (09/08/2015 03:03:35 PM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 75      | 9                | 1.0                 | 333.0    | Yes      | 5562.0MHz,<br>-63.0dBm      | Hop sequence: 5273, 5532, 5289, 5251, 5393, 5290, 5403, 5598, 5582, 5490, 5650, 5684, 5302, 5605, 5628, 5271, 5569, 5552, 5347, 5541, 5642, 5328, 5710, 5562, 5512, 5588, 5416, 5695, 5485, 5340, 5471, 5429, 5314, 5720, 5431, 5279, 5374, 5573, 5578, 5396, 5496, 5489, 5543, 5354, 5617, 5337, 5364, 5270, 5566, 5397, 5591, 5698, 5662, 5696, 5320, 5623, 5626, 5675, 5633, 5446, 5531, 5665, 5699, 5291, 5515, 5527, 5514, 5332, 5641, 5410, 5443, 5563, 5499, 5587, 5547, 5254, 5621, 5329, 5362, 5280, 5452, 5327, 5330, 5677, 5659, 5689, 5468, 5412, 5267, 5717, 5669, 5438, 5460, 5508, 5345, 5339, 5672, 5487, 5470, 5464 (18 hits) (09/08/2015 03:03:54 PM) |
| 76      | 9                | 1.0                 | 333.0    | Yes      | 5563.0MHz,<br>-63.0dBm      | Hop sequence: 5290, 5720, 5457, 5489, 5448, 5624, 5375, 5679, 5337, 5519, 5392, 5574, 5335, 5413, 5319, 5313, 5369, 5500, 5315, 5372, 5610, 5714, 5451, 5474, 5402, 5542, 5393, 5497, 5326, 5637, 5570, 5613, 5638, 5515, 5499, 5437, 5708, 5516, 5626, 5528, 5567, 5508, 5446, 5292, 5322, 5676, 5416, 5478, 5386, 5395, 5578, 5673, 5540, 5622, 5346, 5442, 5253, 5491, 5403, 5449, 5560, 5619, 5455, 5617, 5298, 5616, 5655, 5700, 5412, 5350, 5373, 5267, 5549, 5631, 5384, 5311, 5364, 5488, 5722, 5331, 5533, 5538, 5476, 5600, 5651, 5490, 5576, 5568, 5662, 5593, 5278, 5408, 5420, 5332, 5689, 5344, 5464, 5367, 5299, 5663 (19 hits) (09/08/2015 03:04:30 PM) |
| 77      | 9                | 1.0                 | 333.0    | Yes      | 5564.0MHz,<br>-63.0dBm      | Hop sequence: 5663, 5424, 5505, 5456, 5397, 5377, 5547, 5599, 5383, 5463, 5295, 5357, 5649, 5711, 5503, 5584, 5602, 5719, 5691, 5700, 5702, 5326, 5362, 5625, 5550, 5655, 5685, 5282, 5399, 5665, 5440, 5644, 5292, 5308, 5400, 5648, 5287, 5351, 5467, 5549, 5667, 5561, 5482, 5603, 5368, 5288, 5398, 5419, 5433, 5301, 5692, 5519, 5683, 5281, 5483, 5529, 5506, 5352, 5384, 5721, 5666, 5714, 5531, 5302, 5558, 5428, 5320, 5325, 5410, 5437, 5341, 5465, 5534, 5441, 5660, 5311, 5485, 5468, 5420, 5617, 5543, 5443, 5592, 5697, 5688, 5499, 5520, 5496, 5515, 5360, 5541, 5638, 5516, 5364, 5426, 5279, 5589, 5518, 5475, 5452 (20 hits) (09/08/2015 03:04:58 PM) |

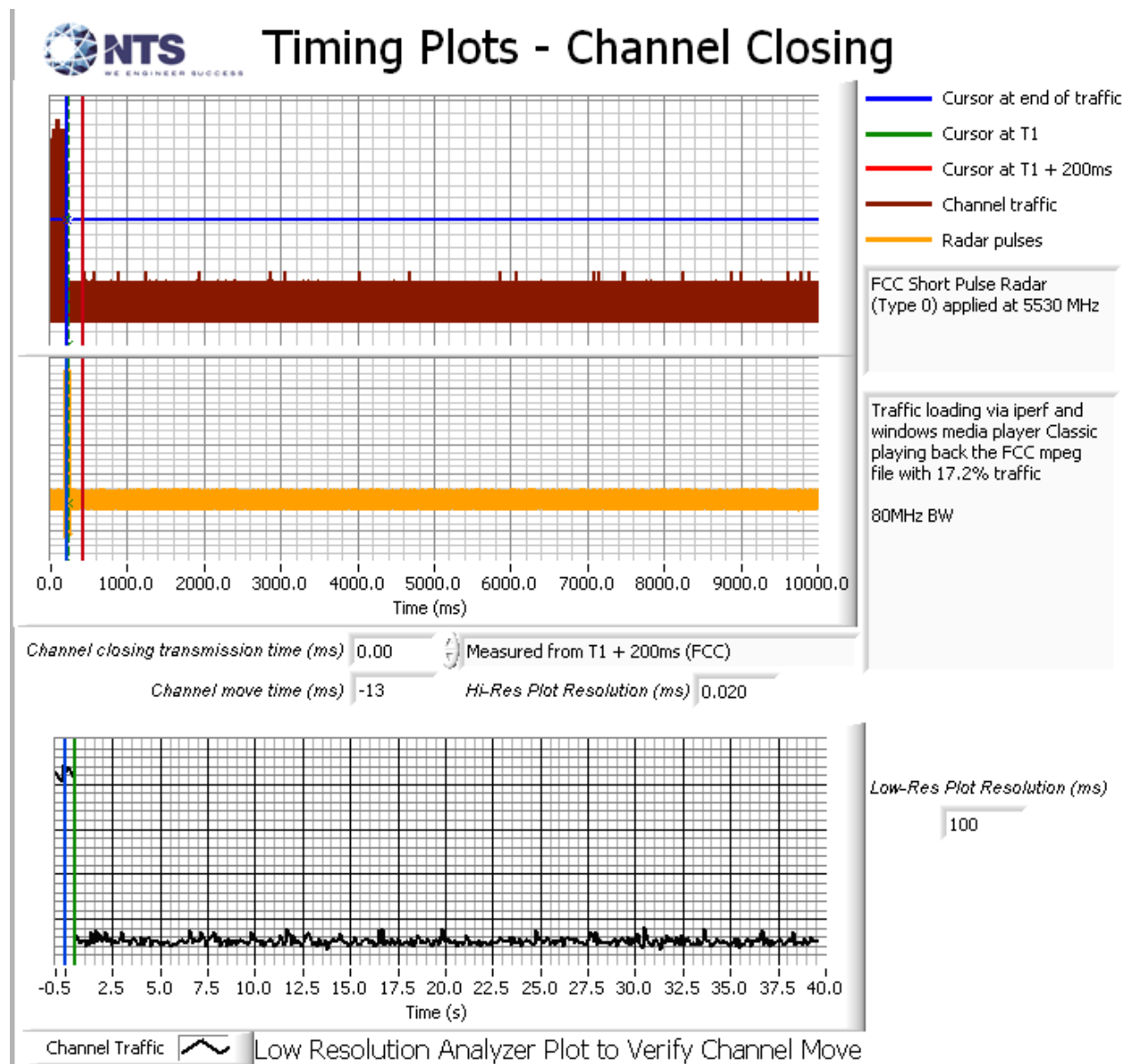
**Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz**

| Trial # | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|------------------|---------------------|----------|----------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 78      | 9                | 1.0                 | 333.0    | Yes      | 5565.0MHz,<br>-63.0dBm      | Hop sequence: 5303, 5683, 5538, 5608, 5652, 5250, 5569, 5629, 5555, 5467, 5501, 5403, 5670, 5294, 5562, 5698, 5640, 5610, 5560, 5456, 5279, 5714, 5595, 5679, 5476, 5344, 5658, 5473, 5533, 5597, 5408, 5567, 5452, 5716, 5355, 5289, 5497, 5406, 5453, 5488, 5565, 5577, 5685, 5346, 5593, 5323, 5368, 5632, 5308, 5432, 5489, 5393, 5261, 5347, 5545, 5696, 5667, 5297, 5417, 5645, 5288, 5590, 5256, 5338, 5624, 5568, 5512, 5589, 5389, 5268, 5421, 5525, 5644, 5650, 5312, 5695, 5514, 5511, 5655, 5570, 5402, 5433, 5283, 5583, 5428, 5686, 5656, 5598, 5607, 5353, 5255, 5537, 5668, 5391, 5706, 5659, 5588, 5266, 5295, 5260 (18 hits) (09/08/2015 03:05:12 PM) |
| 79      | 9                | 1.0                 | 333.0    | Yes      | 5566.0MHz,<br>-63.0dBm      | Hop sequence: 5602, 5383, 5391, 5604, 5587, 5425, 5421, 5471, 5684, 5676, 5558, 5673, 5380, 5630, 5433, 5527, 5396, 5290, 5722, 5317, 5474, 5705, 5511, 5481, 5595, 5267, 5369, 5672, 5301, 5402, 5341, 5507, 5569, 5570, 5487, 5586, 5537, 5526, 5591, 5485, 5656, 5259, 5378, 5363, 5512, 5439, 5412, 5620, 5274, 5559, 5567, 5669, 5712, 5306, 5578, 5571, 5592, 5314, 5657, 5646, 5674, 5417, 5568, 5612, 5572, 5713, 5258, 5528, 5333, 5400, 5443, 5343, 5326, 5263, 5350, 5320, 5556, 5647, 5504, 5309, 5546, 5464, 5311, 5618, 5580, 5664, 5720, 5420, 5576, 5584, 5585, 5601, 5623, 5706, 5299, 5372, 5324, 5613, 5368, 5516 (17 hits) (09/08/2015 03:05:25 PM) |
| 80      | 9                | 1.0                 | 333.0    | Yes      | 5567.0MHz,<br>-63.0dBm      | Hop sequence: 5473, 5459, 5314, 5446, 5472, 5264, 5639, 5528, 5330, 5557, 5348, 5649, 5275, 5293, 5260, 5550, 5497, 5582, 5322, 5680, 5405, 5382, 5299, 5560, 5695, 5257, 5263, 5285, 5422, 5418, 5600, 5391, 5635, 5401, 5460, 5365, 5529, 5320, 5615, 5298, 5354, 5449, 5308, 5585, 5627, 5433, 5532, 5341, 5501, 5626, 5336, 5343, 5630, 5719, 5280, 5593, 5252, 5669, 5602, 5538, 5679, 5565, 5493, 5637, 5517, 5411, 5504, 5423, 5416, 5721, 5387, 5291, 5398, 5438, 5567, 5716, 5541, 5590, 5434, 5489, 5428, 5309, 5304, 5586, 5690, 5271, 5539, 5337, 5360, 5613, 5462, 5339, 5409, 5566, 5429, 5400, 5407, 5395, 5502, 5404 (18 hits) (09/08/2015 03:05:40 PM) |
| 81      | 9                | 1.0                 | 333.0    | No       | 5568.0MHz,<br>-63.0dBm      | Hop sequence: 5694, 5393, 5675, 5664, 5422, 5623, 5260, 5578, 5477, 5383, 5620, 5411, 5676, 5323, 5602, 5380, 5466, 5658, 5261, 5651, 5562,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| <b>Table 123 - FCC frequency hopping radar (Type 6) Results 80 MHz</b> |                  |                     |          |          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------|------------------|---------------------|----------|----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trial #                                                                | Pulses/<br>Burst | Pulse<br>Width (us) | PRI (us) | Detected | Fr (MHz) and<br>level (dBm) | Burst Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                        |                  |                     |          |          |                             | 5536, 5634, 5720, 5656, 5350, 5320,<br>5413, 5369, 5316, 5641, 5279, 5327,<br>5314, 5297, 5458, 5561, 5493, 5558,<br>5528, 5347, 5313, 5574, 5627, 5289,<br>5726, 5556, 5300, 5712, 5359, 5252,<br>5444, 5499, 5650, 5581, 5255, 5615,<br>5342, 5442, 5384, 5524, 5509, 5364,<br>5722, 5322, 5549, 5490, 5440, 5475,<br>5677, 5421, 5372, 5661, 5537, 5713,<br>5583, 5688, 5441, 5276, 5522, 5527,<br>5546, 5723, 5572, 5500, 5593, 5585,<br>5373, 5699, 5619, 5538, 5447, 5552,<br>5667, 5443, 5504, 5674, 5301, 5670,<br>5671 (20 hits) (09/08/2015 03:05:55<br>PM) |

**Appendix C Test Data Tables and Plots for Channel Closing****FCC PART 15 SUBPART E Channel Closing Measurements**

| Table 124 - FCC Part 15 Subpart E Channel Closing Test Results |                                                |       |                   |       |        |
|----------------------------------------------------------------|------------------------------------------------|-------|-------------------|-------|--------|
| Waveform Type                                                  | Channel Closing Transmission Time <sup>1</sup> |       | Channel Move Time |       | Result |
|                                                                | Measured                                       | Limit | Measured          | Limit |        |
| Radar Type 0                                                   | 0 ms                                           | 60 ms | 0 s               | 10 s  | Pass   |

**Figure 12 Channel Closing Time and Channel Move Time (80MHz) – 40 second plot**

<sup>1</sup> Channel closing time for FCC measurements is the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.

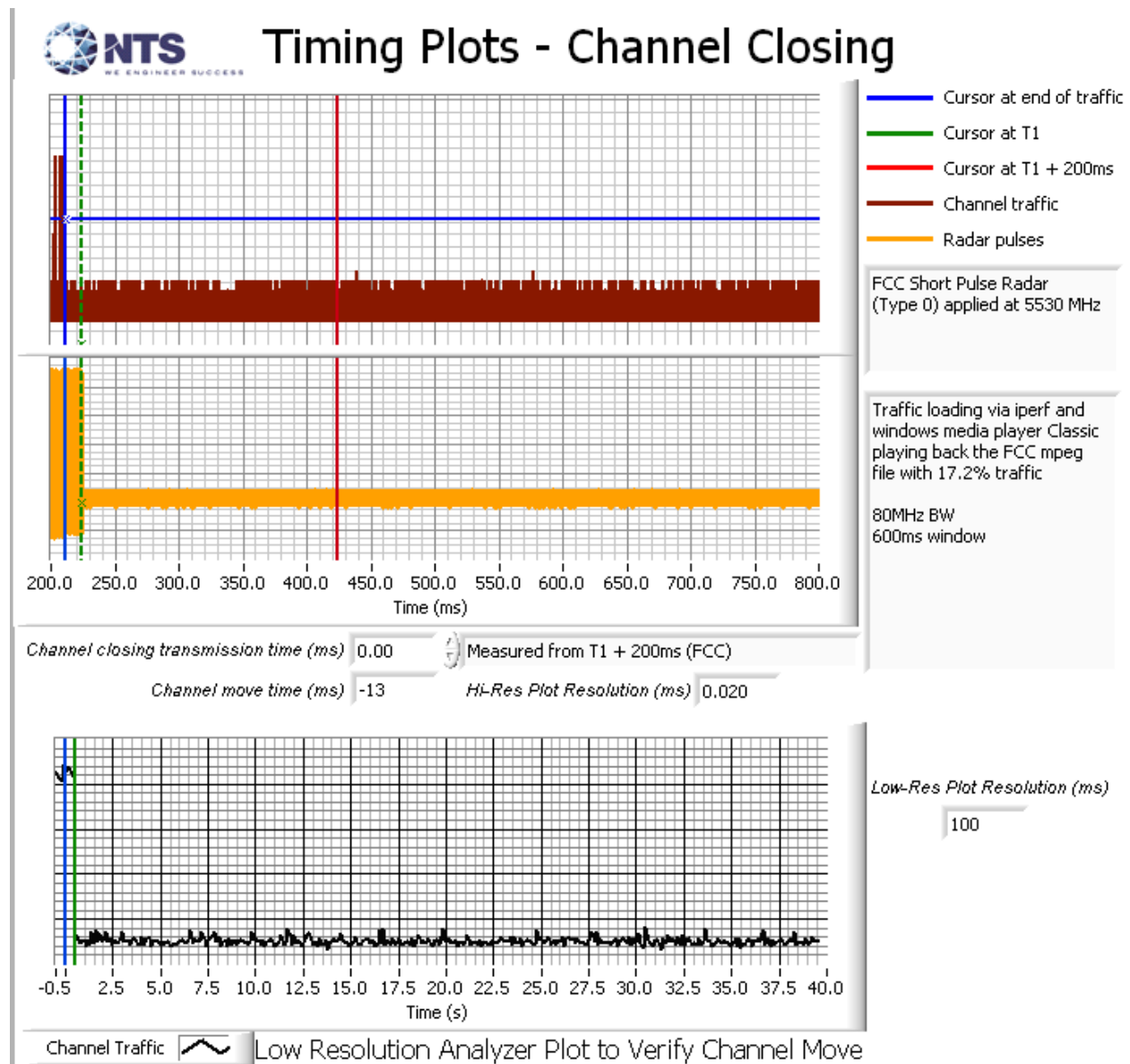
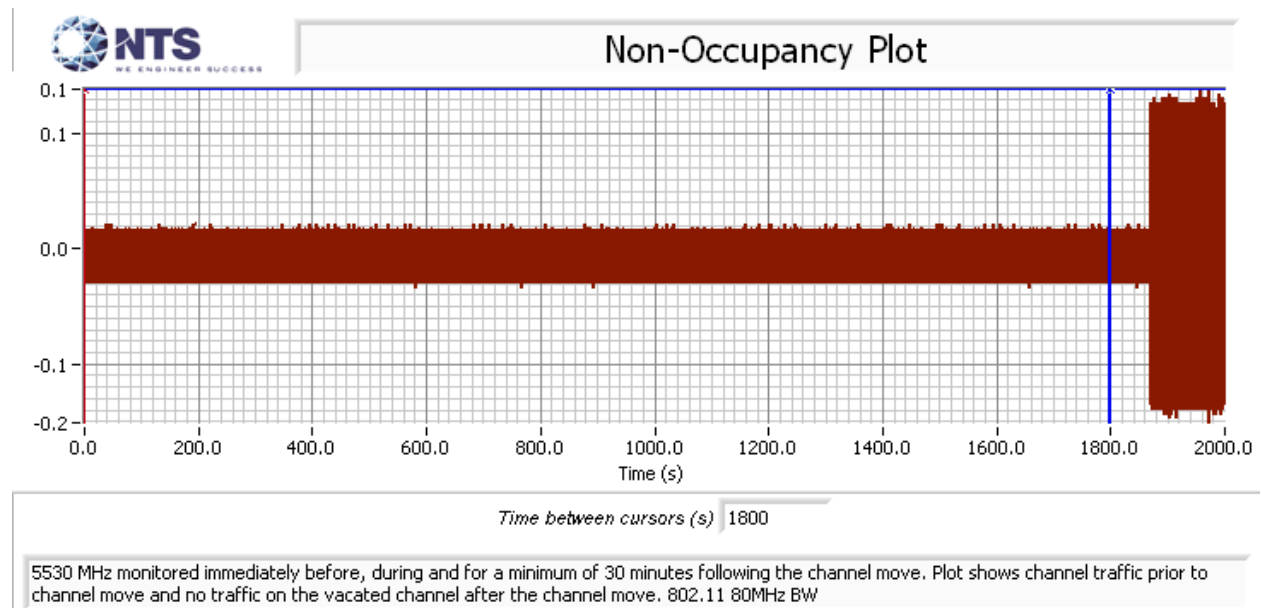


Figure 13 Close-Up of Transmissions Occurring More Than 200ms After The End of Radar (80MHz)



**Figure 14 Radar Channel Non-Occupancy Plot**

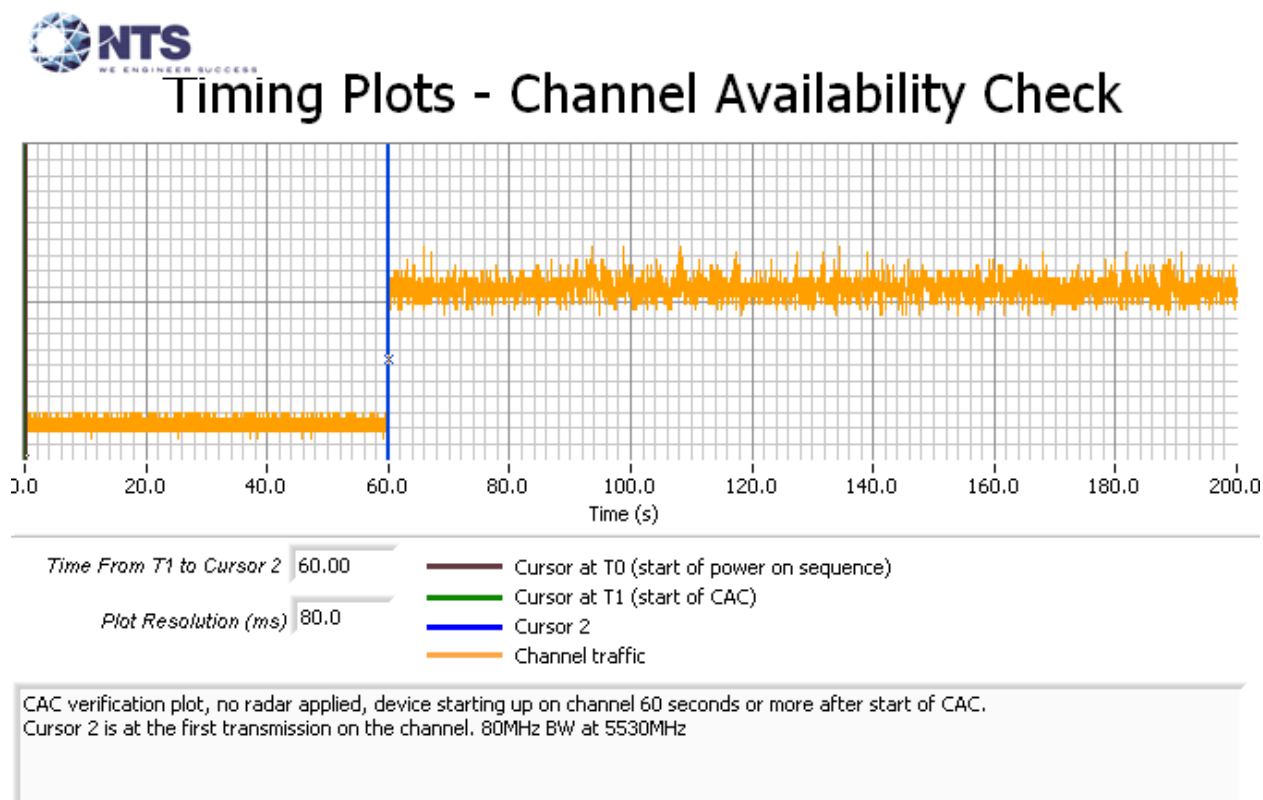
The non-occupancy plot was made over a 30-minute time period following the channel move time with the analyzer IF output connected to the scope and tuned to the vacated channel. No transmissions were observed on the vacated channel after the channel move had been completed.

After the channel move the client device stopped transmitting on the vacated channel.

## Appendix D Test Data – Channel Availability Check

### 5250- 5350 MHz, 5470 – 5725 MHz

The first plot shows the first transmissions on a channel after restarting/power cycling the master device, with no radar applied during the CAC. The start of CAC is assumed to be 60 seconds before the first transmission as indicated by the green cursor line.



**Figure 15 Plot of EUT Start-Up After CAC**

The channel availability check (CAC) was made by applying type 1 radar during either the first 6 seconds or last 6 seconds of the CAC period.

The level of the radar signal applied was -63dBm. Measurements were made on channel 106 (5530 MHz).

The start time is the same for each of the plots and the green cursor is positioned to coincide with the start of the Channel Availability Check period based on the plot taken with no radar applied during the CAC.

The plots show that there were no transmissions on the channel after the radar burst was applied during the CAC, and confirm that the CAC is at least 60 seconds. The description of “Channel Traffic” in the plot legend indicates the transmissions from both the radar system and the EUT on the start-up channel. In all cases only the radar burst is observed. The resolution of the plot is not fine enough to resolve the individual pulses within the burst.



## Timing Plots - Channel Availability Check

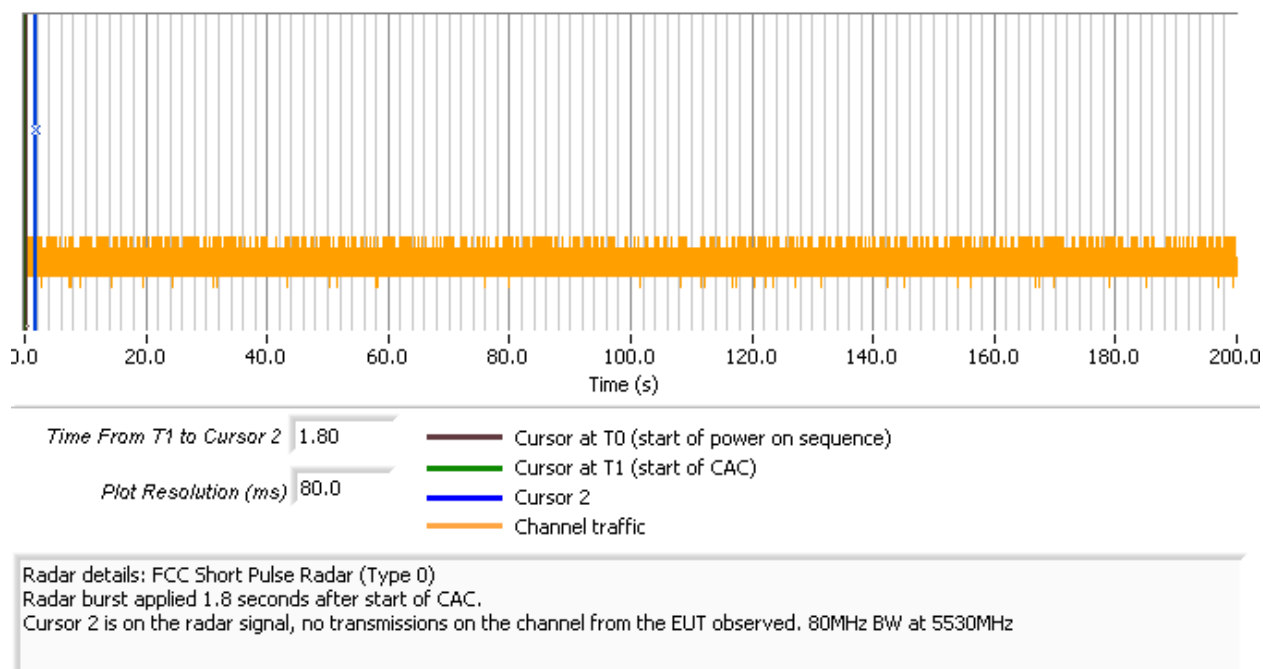
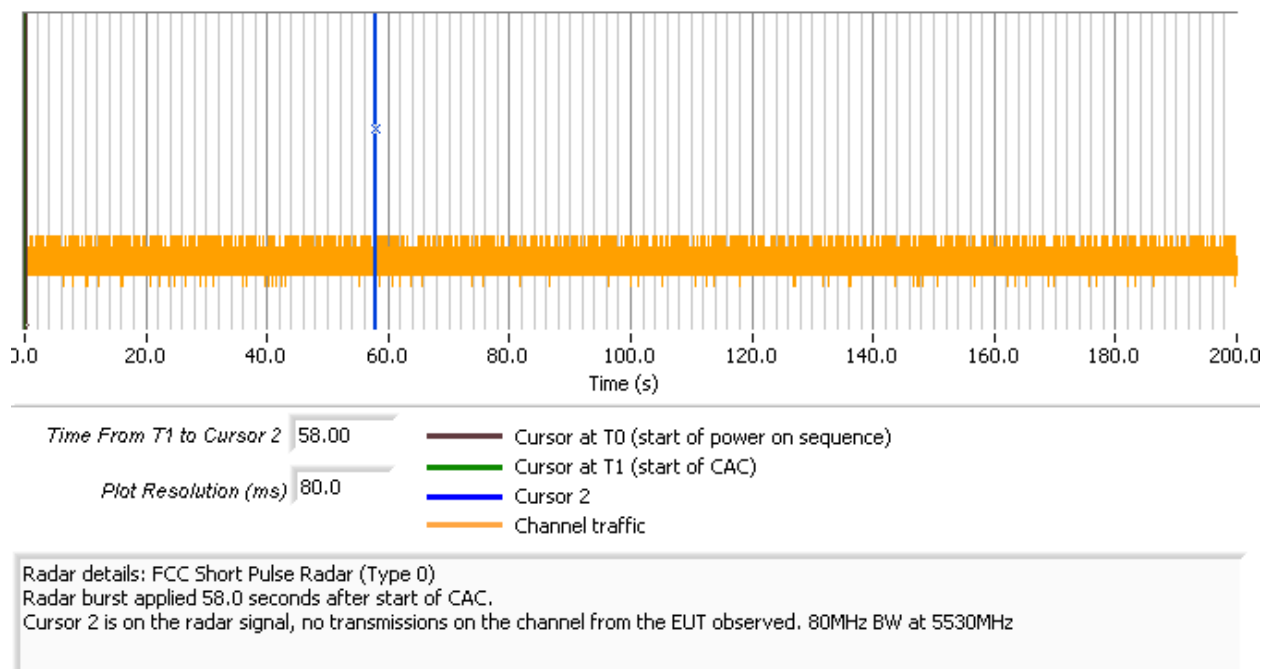


Figure 16 Radar Applied At Start of CAC



## Timing Plots - Channel Availability Check



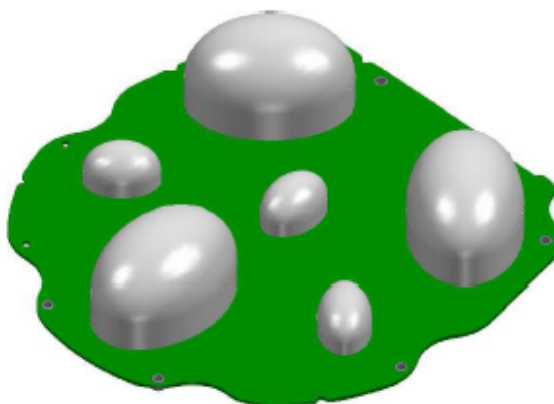
**Figure 17 Radar Applied At End of CAC**

**Appendix E Antenna Specification**

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**AC-PUMORI-ANT-2014-V2****Multi-Port Dual-Band MIMO Directional Antenna System**

TACI's AC-PUMORI-ANT-2014-V2 is a six-port dual-band MIMO directional antenna system for use in WiFi applications. This unit features excellent impedance matching properties, as well as high-gain characteristics for reliable long-range radio coverage in complex outdoor environments, in combination with polarization diversity for optimal quality of service in every operative scenario.

**Features**

- Dual-band operation for IEEE802.11n/ac based wireless access points
- Excellent embedded impedance matching and reduced antenna cross-talk
- Designed specifically for high-efficiency, high-gain directional radio coverage in outdoor scenarios
- Performance optimized using TACI's proprietary RF design tools and polymer materials

**SPECIFICATIONS**

|                                       |                                                         |
|---------------------------------------|---------------------------------------------------------|
| FREQUENCY BANDS                       | [2.4,2.5]GHz (3 antennas) and [4.9,5.9]GHz (3 antennas) |
| EMBEDDED VSWR                         | < 1.8:1 (50Ω reference impedance)                       |
| ANTENNA ISOLATION                     | > 20dB                                                  |
| EMBEDDED REALIZED GAIN (PEAK VALUES)  | 7.4dB in 2.4GHz band and 9.1dB in 5GHz band             |
| EMBEDDED REALIZED GAIN (MEAN VALUES*) | 5.15dB in 2.4GHz band and 5.05dB in 5GHz band           |
| TOTAL EFFICIENCY                      | > 70%                                                   |
| POLARIZATION                          | Linear (-45°, 0°, +45°)                                 |
| POWER                                 | up to 3W                                                |
| CONNECTORIZATION                      | RG316 coaxial cables with MMCX connectors               |
| DIMENSIONS (W × L × H)                | 196.2mm × 202.9mm × 34.6mm                              |
| WEIGHT                                | 396g                                                    |
| OPERATIONAL TEMPERATURE               | From -45°C to +90°C                                     |
| MECHANICAL CHARACTERISTICS            | Shock and vibration resistant                           |
| ASSEMBLY STYLE                        | Integrated in a dedicated chassis                       |

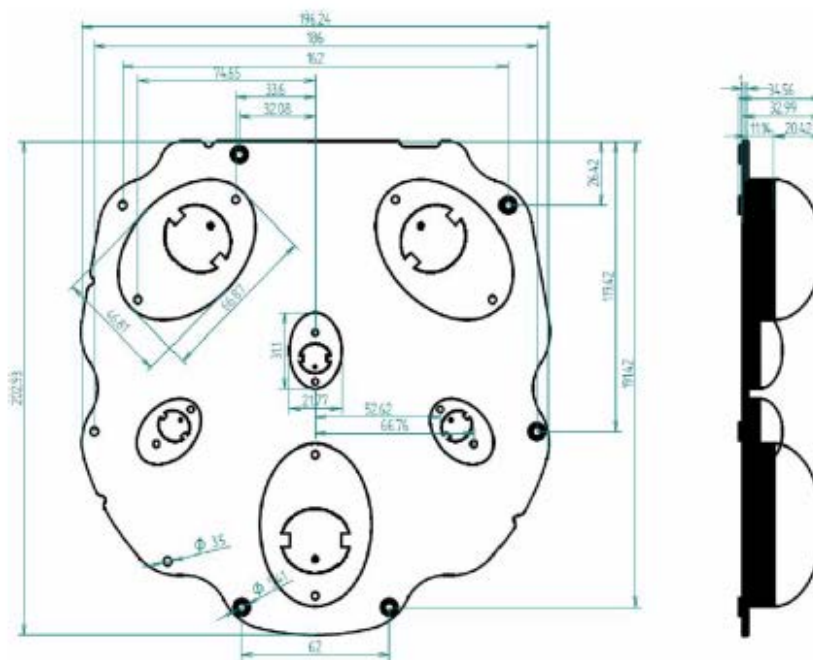
\* Mean values computed over a 65° angular sector centered around the antenna boresight and over frequency

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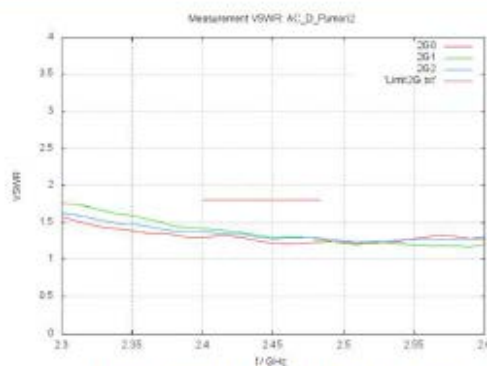
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### ANTENNA SCHEMATICS

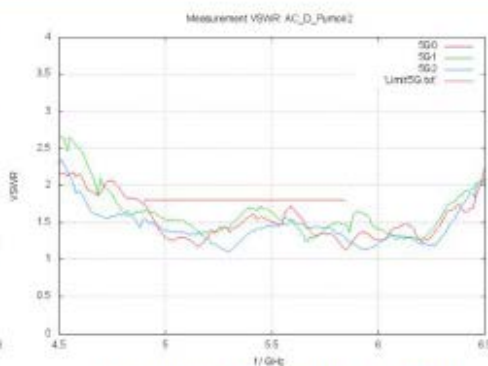


Top and side view of the antenna system

### EMBEDDED INPUT MATCHING PROPERTIES



2.4GHz Antenna Element (Typical VSWR)



5GHz Antenna Element (Typical VSWR)

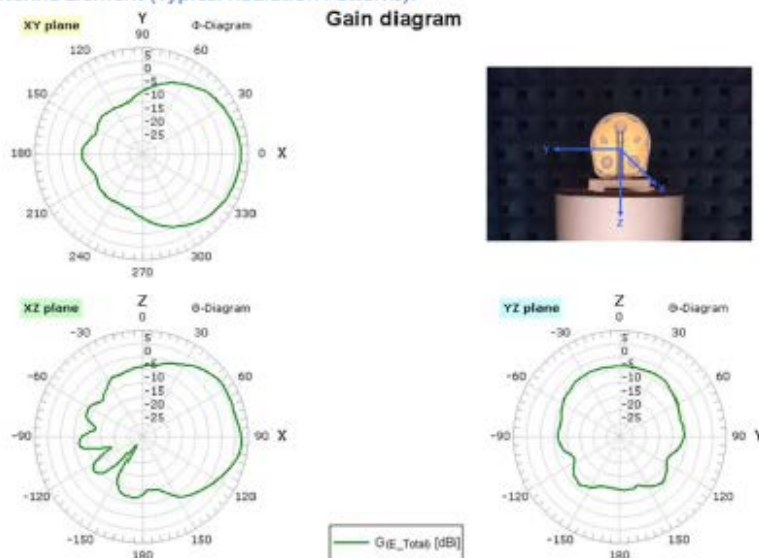
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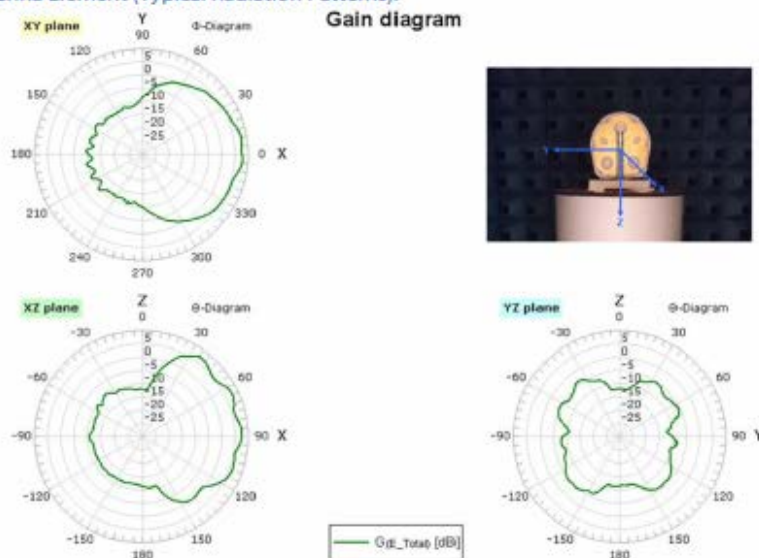
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## EMBEDDED ANTENNA RADIATION PATTERNS

### 2.4GHz Antenna Element (Typical Radiation Patterns):



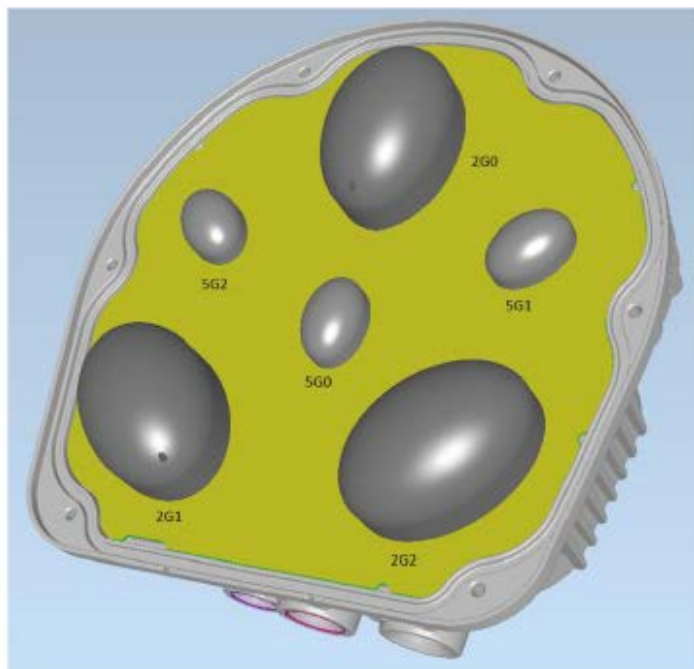
### 5GHz Antenna Element (Typical Radiation Patterns):



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**TYPICAL ANTENNA ASSEMBLY**

Antenna system mounted in a dedicated chassis

**ANTENNA GAIN PERFORMANCE**

| Antenna Element | Peak Gain (dBi) | Mean Gain (dBi) * |
|-----------------|-----------------|-------------------|
| 2G0             | 7.42            | 5.6               |
| 2G1             | 6.85            | 4.8               |
| 2G2             | 7.15            | 5.1               |
| 5G0             | 9.07            | 5.2               |
| 5G1             | 8.71            | 5.0               |
| 5G2             | 8.70            | 5.0               |

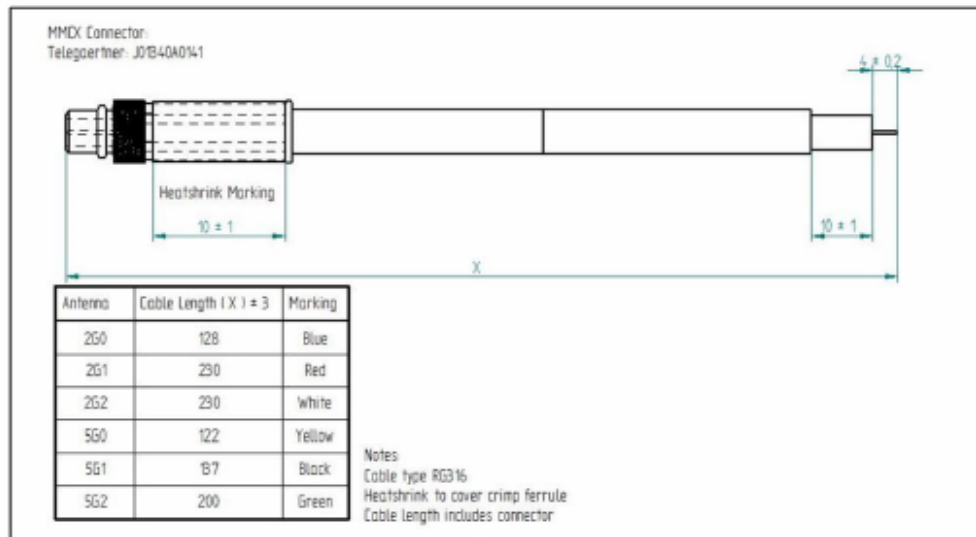
\* Mean values computed over a 65° angular sector centered around the antenna boresight and over frequency

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## ANTENNA FEEDING CABLE CHARACTERISTICS



Detail Specification: 27 August 2014

### AC-PUMORI-ANT-2014-V2

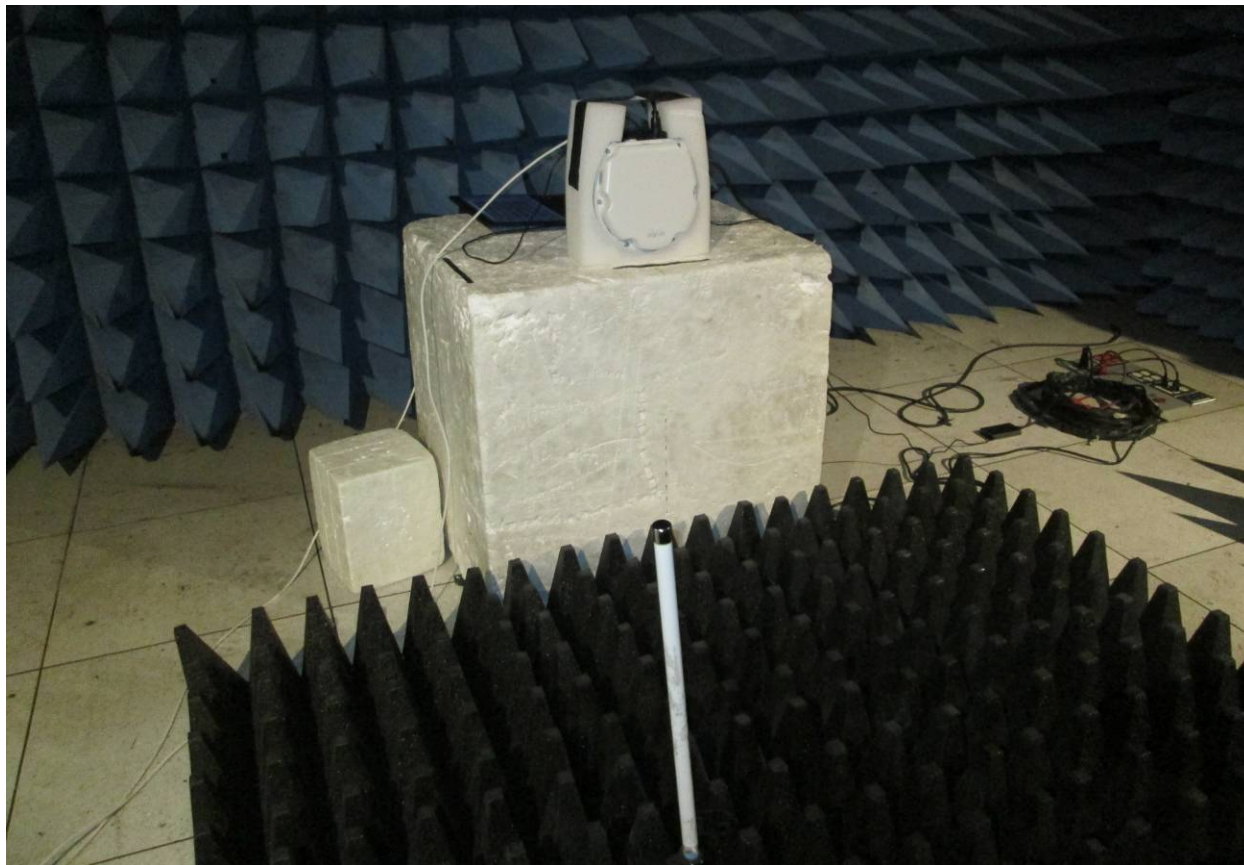
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## Appendix F Test Configuration Photograph(s)



***End of Report***

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