

TEST REPORT
DYNAMIC FREQUENCY SELECTION REQUIREMENTS
OF

FCC Part 15 Subpart D (UNII)

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Model(s): 52xyyzzab

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SCOPE

The Federal Communications Commission publishes standards regarding ElectroMagnetic Compatibility and Radio spectrum Matters for radio-communications devices. Tests have been performed on the Motorola models 5200AP and 5200SM in accordance with these standards.

Test data has been taken pursuant to the relevant requirements of the following standard(s). In the cases of ETSI (EN) standards, testing was limited to those aspects covering essential requirements under article 3.2 of the R&TTE Directive:

- FCC Part 15 SubPart D Unlicensed National Information Infrastructure (U-NII) Devices

Tests were performed in accordance with these standards as outlined in Elliott Laboratories test procedures.

The test results recorded herein are based on a single type test of samples of the Motorola model 52xyyzzab and therefore apply only to the tested samples. The samples were selected and prepared by Steve Payne of Motorola, Inc. The xx in the model number indicates encryption method and or Ethernet throughput limits The yy in the model number varies depending on the application of the radio, SM for Subscriber Module, AP for Access Point and BH for Back Haul. The zz is either a C or HZ or blank (blank is for vertical polarization of the antenna, HZ is horizontal polarization and C stands for connectorized. The a is an alphabetical character relating to ROHS compliance. The b is also alphabetical relating to software revision. The hardware and therefore the RF characteristics of the different models are identical. The difference is in the software load.

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 are covered through a manufacturer statement or through observation of the device.

STATEMENT OF COMPLIANCE

The tested samples of Motorola model 5200AP and 5200SM complied with the DFS requirements of FCC Part 15.407(h).

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.

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

The Motorola model 52xyyzzab is a high speed wireless communication product operating in the 5250-5350 MHz frequency band.

The samples were received on February 2, 2007 and tested on February 5 and February 6, 2007. The EUT consisted of the following component(s):

Manufacturer	Model	Description	Serial Number
Motorola, Inc.	5200APAB	High speed wireless communication radio	6069GY0FT2
Motorola, Inc.	5200SMAB		6069GY0FS9

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

Operating Modes

- ☒ Master Device, model 5200APAB
- ☒ Client Device, model 5200SMAB
- ☐ Client Device with In-Service Monitoring

Antenna Gains / EIRP

	5275 – 5325 MHz
Lowest Antenna Gain (dBi)	7
Highest Antenna Gain (dBi)	7
Output Power (dBm)	23
EIRP (dBm)	30

- ☒ Power can exceed 200mW EIRP

Channel Protocol

- ☐ IP Based
- ☒ Frame Based
- ☐ OTHER _____

ENCLOSURE

The EUT enclosure measures approximately 30 by 9 by 8 centimeters. It is primarily constructed of uncoated plastic.

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 local support equipment for testing:

Manufacturer	Model	Description	Serial Number
Dell	Inspiron 8600	Laptop PC	42707742661
IBM	Thinkpad X40	Laptop PC	KV-41187

EUT INTERFACE PORTS

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

Port	Connected To	Cable(s)		
		Description	Shielded or Unshielded	Length(m)
5200SM Ethernet	Laptop	Cat 5	Unshielded	4
5200AP Ethernet	Laptop	Cat 5	Unshielded	4

EUT OPERATION

The EUT was operating with the following software.

Master Device: Version 8 Working

Client Device: Version 8 Working

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 occurred 31 seconds after power was applied.

During the in-service monitoring detection probability, channel move time and closing transmission time tests on the 5200APAB, the system was configured with a "FCC" streaming video file from the AP (sourced by the PC connected to the AP device via an Ethernet interface) to the SM viewed on the PC connected to the SM. The talk/listen ratio was set to 45%/55%. The same setup was used for channel move and closing transmissions tests on the 5200SMAB.

During the detection bandwidth tests, the 5200APAB was configured without traffic on the channel. The talk/listen ration was set to 0%/100%.

TEST RESULTS**TEST RESULTS SUMMARY – FCC Part 15, MASTER DEVICE – 5200AP**

Description	Radar Type	Radar Frequency	Measured Value	Requirement	Test Data	Status
Channel Availability Check (CAC) Time	Type 1	5290MHz	68s	$\geq 60s$	Appendix D	Passed
In-Service Monitoring Detection Threshold	Type 1 Type 2 Type 3 Type 4 Type 5 Type 6	5290MHz	-56 dBm	-56dBm (see note 2)	Appendix C	Passed
Channel closing transmission time	Type 1 Type 5	5290MHz 5290MHz	0ms 0ms	$\leq 260ms$	Appendix C	Passed
Channel move time	Type 1 Type 5	5290MHz 5290MHz	0s 0s	$\leq 10s$	Appendix C	Passed
Non-occupancy period	N/A	-	30 min	> 30 minutes	Appendix C	Passed

Table 1 FCC Part 15 Subpart E Client Device Test Result Summary**TEST RESULTS SUMMARY – FCC Part 15, CLIENT DEVICE – 5200SM**

Description	Radar Type	Radar Frequency	Measured Value	Requirement	Test Data	Status
Channel closing transmission time	Type 1	5290MHz	0ms	$\leq 260ms$	Appendix C	Passed
Channel move time	Type 1	5290MHz	0s	$\leq 10s$	Appendix C	Passed

Table 2 FCC Part 15 Subpart E Client Device Test Result Summary

Notes:

- 1) The radar was considered to be “detected” during in-service monitoring if the master device indicated detection more than 18 times out of 30 trials for each radar type(60%). The device detected each radar at least 18 times out of 30 trials. In addition, the aggregate number of detections for radar types 1-4 was at least 96 of 120 trials (80%).
- 2) Detection threshold is based on the master device having an antenna gain of 7 dBi. $(-64+7+1 = -56 \text{ dBm})$. If gains of 0 dBi or less are used then the required threshold increases to -62dBm (output EIRP drops below 23dBm).
- 3) Channel availability check, detection threshold and non-occupancy period are not applicable to client devices.

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 (Channel move time, aggregate transmission time)	ms	Timing resolution +/- 0.24%
Timing (non occupancy period)	seconds	5 seconds
DFS Threshold (radiated)	dBm	1.6
DFS Threshold (conducted)	dBm	1.2

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.

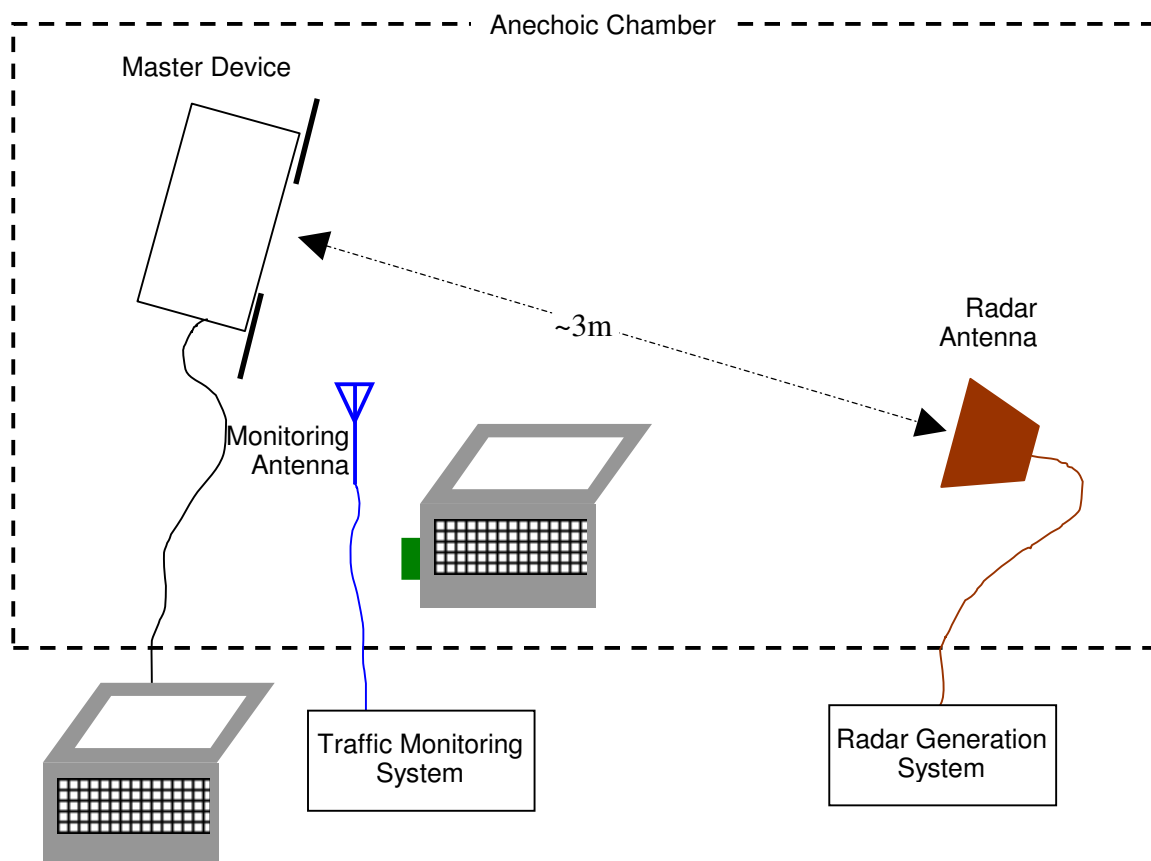


Figure 1 Test Configuration for radiated Measurement Method

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 (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.

CONDUCTED TEST METHOD

The combination of master and slave devices is located in an anechoic chamber. The simulated radar waveform is coupled into the unit performing the radar detection (radar detection device, RDD) via couplers and attenuators.

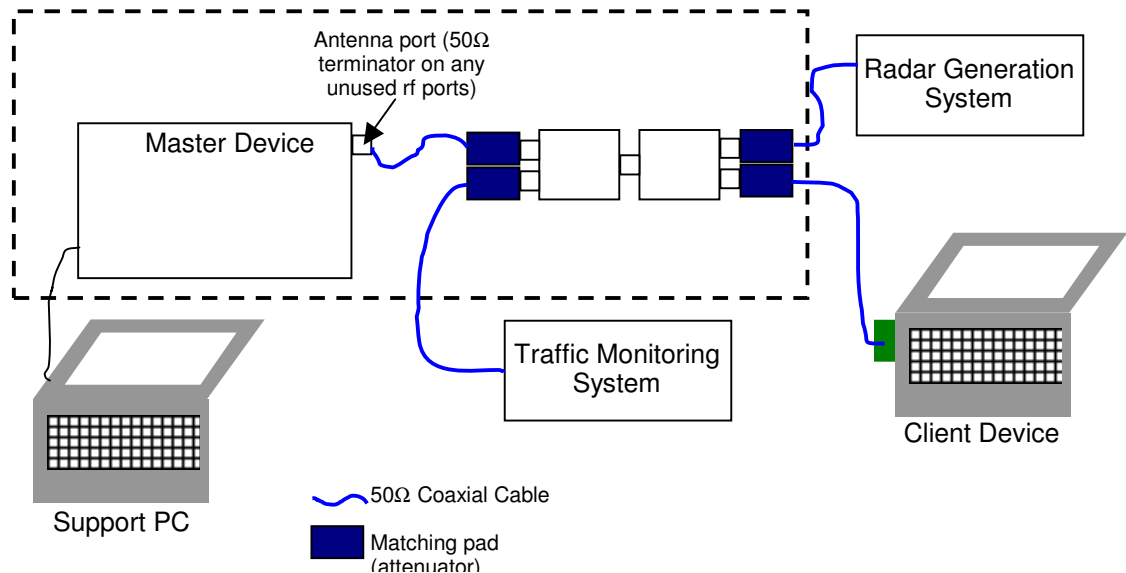


Figure 2 Test Configuration for Conducted Measurement Method

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 signal level is verified by measuring the CW signal level at the coupling point to the RDD antenna port. The radar signal level is calculated from the measured level, R (dBm) and the lowest gain antenna assembly intended for use with the RDD, GRDD (dBi):

$$\text{Applied level (dBm)} = R - \text{GRDD}$$

If both master and client devices have radar detection capability then 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 Elliott custom software to produce the required waveforms, with the capability to produce both unmodulated 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.

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 CW signal with the AGC function switched on. Correction factors to account for the fact that pulses are generated with the AGC functions switched off are measured annually and an offset is used to account for this in the software.

The generator output is connected to the coupling port of the conducted set-up or to the radar generating antenna.

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.

DFS MEASUREMENT METHODS**DFS RADAR DETECTION BANDWIDTH**

The radar detection bandwidth is determined by using on of the radar waveforms (in the FCC case, the selection is limited to the short duration burst waveforms) and applying radar pulses at offset 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 radar burst 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 two ways:

FCC – 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.

ETSI – the total time of all individual transmissions from the EUT that are observed from the end of the last radar pulse in the waveform. This value is required to be less than 260ms.

DFS CHANNEL AVAILABILITY CHECK TIME

It is preferred that the EUT report when it starts the radar channel availability check. In this case a single burst of one radar type is applied within 6 seconds of observing the start of the channel availability check and it is verified that the device does not use the channel. The test is repeated by applying a radar burst no sooner than 54 seconds and no later than 60 seconds after the start of the 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.

UNIFORM LOADING

Compliance with the channel loading requirement, where appropriate (i.e. when channel selection is not determined under control of the network), is demonstrated through the manufacturer's statement(s).

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

<u>Manufacturer</u>	<u>Description</u>	<u>Model #</u>	<u>Asset #</u>	<u>Cal Due</u>
Hewlett Packard	EMC Spectrum Analyzer, 9 kHz - 6.5 GHz	8595EM	787	21-Dec-07
Tektronix	1 GHz Oscilloscope	TDS5104	1435	10-Apr-07
Agilent	Vector Signal Generator (250kHz - 20GHz)	E8267C	1877	23-Nov-07

Appendix B Test Data Tables for Radar Detection Probability**Detection probability – 5200AP**

Waveform Name	Success Rate	Number of Trials
FCC Short Pulse Radar (Type 1)	100.0 %	30
FCC Short Pulse Radar (Type 2)	100.0 %	30
FCC Short Pulse Radar (Type 3)	100.0 %	30
FCC Short Pulse Radar (Type 4)	96.7 %	30
FCC frequency hopping radar (Type 6)	100.0 %	48
Long Sequence	96.7 %	30

Table 3 Summary of All Results

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
0	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
1	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
2	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
3	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
4	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
5	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
6	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
7	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
8	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
9	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
10	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
11	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
12	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
13	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
14	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
15	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
16	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
17	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
18	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
19	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
20	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
21	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
22	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
23	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
24	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
25	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
26	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
27	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
28	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
29	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A

Table 4 FCC Short Pulse Radar (Type 1) Test Results

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
0	27	4.0	186.0	Yes	5290.0MHz, -56.0dBm	N/A
1	29	1.0	167.0	Yes	5290.0MHz, -56.0dBm	N/A
2	28	3.5	158.0	Yes	5290.0MHz, -56.0dBm	N/A
3	27	2.9	190.0	Yes	5290.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
4	24	1.5	168.0	Yes	5290.0MHz, -56.0dBm	N/A
5	25	1.5	202.0	Yes	5290.0MHz, -56.0dBm	N/A
6	27	3.2	177.0	Yes	5290.0MHz, -56.0dBm	N/A
7	24	4.6	197.0	Yes	5290.0MHz, -56.0dBm	N/A
8	27	4.8	222.0	Yes	5290.0MHz, -56.0dBm	N/A
9	26	4.6	225.0	Yes	5290.0MHz, -56.0dBm	N/A
10	25	3.2	208.0	Yes	5290.0MHz, -56.0dBm	N/A
11	28	2.2	215.0	Yes	5290.0MHz, -56.0dBm	N/A
12	27	3.1	167.0	Yes	5290.0MHz, -56.0dBm	N/A
13	23	3.9	205.0	Yes	5290.0MHz, -56.0dBm	N/A
14	25	3.0	175.0	Yes	5290.0MHz, -56.0dBm	N/A
15	28	3.0	156.0	Yes	5290.0MHz, -56.0dBm	N/A
16	28	2.6	208.0	Yes	5290.0MHz, -56.0dBm	N/A
17	28	4.6	177.0	Yes	5290.0MHz, -56.0dBm	N/A
18	26	1.7	177.0	Yes	5290.0MHz, -56.0dBm	N/A
19	24	2.7	228.0	Yes	5290.0MHz, -56.0dBm	N/A
20	25	1.2	201.0	Yes	5290.0MHz, -56.0dBm	N/A
21	27	1.9	187.0	Yes	5290.0MHz, -56.0dBm	N/A
22	29	3.5	171.0	Yes	5290.0MHz, -56.0dBm	N/A
23	29	4.7	178.0	Yes	5290.0MHz, -56.0dBm	N/A
24	23	1.6	188.0	Yes	5290.0MHz, -56.0dBm	N/A
25	26	3.6	228.0	Yes	5290.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
26	29	3.2	180.0	Yes	5290.0MHz, -56.0dBm	N/A
27	28	1.2	210.0	Yes	5290.0MHz, -56.0dBm	N/A
28	24	1.4	165.0	Yes	5290.0MHz, -56.0dBm	N/A
29	23	3.2	150.0	Yes	5290.0MHz, -56.0dBm	N/A

Table 5 FCC Short Pulse Radar (Type 2) Test Results

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
0	17	7.2	323.0	Yes	5290.0MHz, -56.0dBm	N/A
1	18	8.0	480.0	Yes	5290.0MHz, -56.0dBm	N/A
2	18	8.5	323.0	Yes	5290.0MHz, -56.0dBm	N/A
3	17	7.0	248.0	Yes	5290.0MHz, -56.0dBm	N/A
4	17	8.5	358.0	Yes	5290.0MHz, -56.0dBm	N/A
5	17	6.1	413.0	Yes	5290.0MHz, -56.0dBm	N/A
6	17	6.7	262.0	Yes	5290.0MHz, -56.0dBm	N/A
7	17	9.0	252.0	Yes	5290.0MHz, -56.0dBm	N/A
8	16	8.3	375.0	Yes	5290.0MHz, -56.0dBm	N/A
9	17	7.3	318.0	Yes	5290.0MHz, -56.0dBm	N/A
10	18	10.0	382.0	Yes	5290.0MHz, -56.0dBm	N/A
11	18	9.5	317.0	Yes	5290.0MHz, -56.0dBm	N/A
12	16	6.6	274.0	Yes	5290.0MHz, -56.0dBm	N/A
13	18	9.7	271.0	Yes	5290.0MHz, -56.0dBm	N/A
14	17	6.7	436.0	Yes	5290.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
15	16	9.6	398.0	Yes	5290.0MHz, -56.0dBm	N/A
16	17	7.1	287.0	Yes	5290.0MHz, -56.0dBm	N/A
17	18	6.3	345.0	Yes	5290.0MHz, -56.0dBm	N/A
18	18	8.6	377.0	Yes	5290.0MHz, -56.0dBm	N/A
19	17	7.9	270.0	Yes	5290.0MHz, -56.0dBm	N/A
20	18	6.4	354.0	Yes	5290.0MHz, -56.0dBm	N/A
21	17	7.7	201.0	Yes	5290.0MHz, -56.0dBm	N/A
22	16	7.4	405.0	Yes	5290.0MHz, -56.0dBm	N/A
23	17	8.6	459.0	Yes	5290.0MHz, -56.0dBm	N/A
24	18	7.4	475.0	Yes	5290.0MHz, -56.0dBm	N/A
25	17	9.6	235.0	Yes	5290.0MHz, -56.0dBm	N/A
26	18	6.8	224.0	Yes	5290.0MHz, -56.0dBm	N/A
27	18	8.8	299.0	Yes	5290.0MHz, -56.0dBm	N/A
28	17	8.8	488.0	Yes	5290.0MHz, -56.0dBm	N/A
29	17	9.8	437.0	Yes	5290.0MHz, -56.0dBm	N/A

Table 6 FCC Short Pulse Radar (Type 3) Test Results

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
0	12	16.0	499.0	Yes	5290.0MHz, -56.0dBm	N/A
1	15	12.7	328.0	Yes	5290.0MHz, -56.0dBm	N/A
2	15	12.1	299.0	Yes	5290.0MHz, -56.0dBm	N/A
3	15	15.2	321.0	Yes	5290.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
4	13	15.2	423.0	Yes	5290.0MHz, -56.0dBm	N/A
5	15	16.0	247.0	Yes	5290.0MHz, -56.0dBm	N/A
6	15	19.1	446.0	Yes	5290.0MHz, -56.0dBm	N/A
7	16	17.3	469.0	Yes	5290.0MHz, -56.0dBm	N/A
8	15	11.9	397.0	Yes	5290.0MHz, -56.0dBm	N/A
9	14	16.6	377.0	Yes	5290.0MHz, -56.0dBm	N/A
10	15	17.1	477.0	Yes	5290.0MHz, -56.0dBm	N/A
11	13	12.9	449.0	Yes	5290.0MHz, -56.0dBm	N/A
12	15	17.1	443.0	Yes	5290.0MHz, -56.0dBm	N/A
13	14	13.8	452.0	Yes	5290.0MHz, -56.0dBm	N/A
14	15	18.5	245.0	Yes	5290.0MHz, -56.0dBm	N/A
15	15	14.9	389.0	Yes	5290.0MHz, -56.0dBm	N/A
16	12	18.7	276.0	Yes	5290.0MHz, -56.0dBm	N/A
17	13	12.6	311.0	Yes	5290.0MHz, -56.0dBm	N/A
18	14	16.0	343.0	Yes	5290.0MHz, -56.0dBm	N/A
19	14	13.0	242.0	Yes	5290.0MHz, -56.0dBm	N/A
20	12	11.5	287.0	Yes	5290.0MHz, -56.0dBm	N/A
21	14	12.2	494.0	Yes	5290.0MHz, -56.0dBm	N/A
22	15	13.1	440.0	Yes	5290.0MHz, -56.0dBm	N/A
23	13	14.1	204.0	Yes	5290.0MHz, -56.0dBm	N/A
24	14	19.4	259.0	Yes	5290.0MHz, -56.0dBm	N/A
25	16	14.1	222.0	Yes	5290.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
26	15	13.9	428.0	Yes	5290.0MHz, -56.0dBm	N/A
27	15	11.5	315.0	Yes	5290.0MHz, -56.0dBm	N/A
28	13	16.1	354.0	No	5290.0MHz, -56.0dBm	N/A
29	14	14.7	393.0	Yes	5290.0MHz, -56.0dBm	N/A

Table 7 FCC Short Pulse Radar (Type 4) Test Results

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
0	9	1.0	333.0	Yes	5278.0MHz, -56.0dBm	5318, 5509, 5507, 5567, 5621, 5312, 5343, 5258, 5256, 5269, 5661, 5694, 5358, 5467, 5602, 5510, 5412, 5684, 5577, 5282, 5272, 5299, 5499, 5504, 5259, 5516, 5298, 5354, 5360, 5489, 5637, 5386, 5533, 5464, 5683, 5345, 5512, 5365, 5638, 5620, 5267, 5438, 5338, 5542, 5660, 5675, 5632, 5673, 5364, 5562, 5328, 5396, 5534, 5613, 5283, 5254, 5465, 5643, 5519, 5711, 5491, 5633, 5333, 5692, 5291, 5482, 5626, 5586, 5402, 5500, 5347, 5569, 5443, 5570, 5416, 5665, 5437, 5679, 5547, 5525, 5484, 5527, 5275, 5273, 5439, 5459, 5689, 5693, 5695, 5357, 5370, 5531, 5548, 5574, 5573, 5702, 5309, 5321, 5293, 5657 (6 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
1	9	1.0	333.0	Yes	5279.0MHz, -56.0dBm	5587, 5607, 5440, 5568, 5553, 5349, 5475, 5654, 5472, 5631, 5477, 5526, 5422, 5603, 5706, 5638, 5252, 5556, 5320, 5347, 5533, 5629, 5307, 5382, 5456, 5573, 5355, 5690, 5264, 5387, 5462, 5381, 5304, 5255, 5544, 5430, 5267, 5323, 5359, 5703, 5506, 5471, 5269, 5409, 5540, 5536, 5474, 5510, 5516, 5469, 5417, 5263, 5336, 5274, 5532, 5377, 5467, 5437, 5298, 5488, 5455, 5452, 5503, 5657, 5512, 5365, 5414, 5284, 5478, 5343, 5642, 5259, 5344, 5581, 5615, 5685, 5702, 5705, 5287, 5616, 5380, 5303, 5717, 5311, 5286, 5582, 5291, 5658, 5290, 5660, 5428, 5590, 5401, 5403, 5636, 5649, 5372, 5682, 5552, 5691 (6 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
2	9	1.0	333.0	Yes	5280.0MHz, -56.0dBm	5707, 5442, 5497, 5480, 5373, 5722, 5700, 5725, 5662, 5348, 5678, 5492, 5622, 5466, 5474, 5536, 5411, 5527, 5436, 5601, 5607, 5427, 5696, 5382, 5716, 5296, 5494, 5592, 5673, 5638, 5620, 5530, 5470, 5679, 5550, 5572, 5660, 5293, 5717, 5682, 5449, 5553, 5488, 5305, 5664, 5651, 5646, 5699, 5323, 5420, 5269, 5394, 5367, 5412, 5624, 5723, 5279, 5327, 5523, 5511, 5451, 5307, 5278, 5619, 5345, 5485, 5648, 5503, 5656, 5276, 5481, 5554, 5515, 5567, 5432, 5516, 5724, 5377, 5284, 5612, 5340, 5386, 5531, 5457, 5506, 5393, 5251, 5353, 5399, 5459, 5331, 5650, 5590, 5505, 5464, 5281, 5671, 5565, 5701, 5463 (5 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
3	9	1.0	333.0	Yes	5281.0MHz, -56.0dBm	5511, 5600, 5546, 5696, 5708, 5294, 5457, 5544, 5455, 5437, 5550, 5621, 5275, 5405, 5700, 5385, 5545, 5717, 5538, 5328, 5315, 5684, 5668, 5376, 5572, 5430, 5555, 5706, 5718, 5298, 5535, 5526, 5407, 5483, 5516, 5283, 5539, 5605, 5607, 5367, 5619, 5692, 5348, 5360, 5524, 5672, 5325, 5624, 5529, 5289, 5612, 5520, 5646, 5611, 5393, 5657, 5512, 5601, 5679, 5413, 5627, 5427, 5347, 5352, 5302, 5618, 5686, 5445, 5443, 5390, 5326, 5378, 5363, 5620, 5371, 5617, 5594, 5628, 5680, 5651, 5519, 5695, 5616, 5344, 5295, 5293, 5260, 5339, 5613, 5299, 5488, 5540, 5472, 5301, 5568, 5256, 5522, 5389, 5576, 5435 (7 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
4	9	1.0	333.0	Yes	5282.0MHz, -56.0dBm	5579, 5635, 5339, 5387, 5682, 5449, 5701, 5290, 5342, 5488, 5610, 5313, 5410, 5289, 5439, 5413, 5523, 5486, 5443, 5311, 5434, 5391, 5724, 5435, 5437, 5683, 5651, 5425, 5393, 5614, 5329, 5261, 5348, 5411, 5592, 5359, 5538, 5668, 5694, 5516, 5404, 5511, 5474, 5380, 5720, 5337, 5469, 5282, 5338, 5612, 5595, 5254, 5691, 5531, 5325, 5336, 5260, 5498, 5671, 5663, 5712, 5445, 5675, 5505, 5572, 5301, 5497, 5560, 5660, 5723, 5606, 5477, 5721, 5566, 5460, 5264, 5291, 5422, 5383, 5462, 5552, 5484, 5426, 5366, 5643, 5508, 5540, 5384, 5293, 5485, 5277, 5279, 5350, 5647, 5459, 5513, 5615, 5343, 5356, 5483 (6 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
5	9	1.0	333.0	Yes	5283.0MHz, -56.0dBm	5533, 5545, 5692, 5275, 5467, 5450, 5459, 5687, 5582, 5655, 5552, 5505, 5590, 5304, 5438, 5255, 5289, 5517, 5671, 5518, 5317, 5261, 5350, 5497, 5667, 5569, 5564, 5332, 5426, 5721, 5592, 5651, 5697, 5266, 5442, 5368, 5610, 5301, 5586, 5690, 5441, 5604, 5644, 5343, 5290, 5678, 5652, 5666, 5337, 5574, 5634, 5260, 5589, 5272, 5603, 5469, 5495, 5448, 5504, 5422, 5484, 5549, 5656, 5583, 5274, 5496, 5543, 5705, 5679, 5509, 5534, 5252, 5335, 5405, 5619, 5483, 5306, 5401, 5669, 5397, 5551, 5372, 5576, 5716, 5591, 5502, 5613, 5305, 5641, 5520, 5284, 5409, 5428, 5530, 5479, 5281, 5547, 5491, 5661, 5623 (4 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
6	9	1.0	333.0	Yes	5284.0MHz, -56.0dBm	5560, 5365, 5280, 5332, 5358, 5596, 5602, 5310, 5591, 5377, 5260, 5316, 5517, 5303, 5666, 5688, 5654, 5315, 5335, 5463, 5598, 5271, 5396, 5644, 5541, 5493, 5378, 5326, 5653, 5718, 5490, 5506, 5559, 5522, 5383, 5578, 5523, 5715, 5549, 5314, 5476, 5448, 5555, 5425, 5508, 5433, 5269, 5721, 5724, 5498, 5321, 5387, 5660, 5356, 5456, 5341, 5380, 5445, 5678, 5447, 5590, 5440, 5607, 5339, 5719, 5557, 5331, 5690, 5494, 5536, 5413, 5305, 5682, 5325, 5636, 5668, 5343, 5351, 5671, 5427, 5421, 5289, 5695, 5672, 5648, 5333, 5521, 5411, 5657, 5417, 5474, 5713, 5286, 5691, 5584, 5467, 5629, 5353, 5540, 5264 (3 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
7	9	1.0	333.0	Yes	5285.0MHz, -56.0dBm	5617, 5718, 5538, 5309, 5604, 5398, 5404, 5524, 5453, 5256, 5459, 5415, 5351, 5590, 5353, 5366, 5714, 5345, 5504, 5648, 5498, 5525, 5544, 5706, 5272, 5418, 5614, 5405, 5268, 5262, 5451, 5445, 5332, 5721, 5600, 5330, 5397, 5462, 5438, 5667, 5391, 5717, 5296, 5694, 5482, 5321, 5388, 5278, 5264, 5649, 5675, 5534, 5597, 5319, 5349, 5446, 5682, 5621, 5289, 5668, 5433, 5709, 5618, 5347, 5465, 5477, 5589, 5687, 5511, 5315, 5317, 5520, 5662, 5302, 5599, 5676, 5382, 5475, 5492, 5468, 5555, 5605, 5455, 5414, 5609, 5260, 5693, 5371, 5490, 5285, 5527, 5521, 5500, 5686, 5435, 5501, 5697, 5674, 5512, 5624 (3 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
8	9	1.0	333.0	Yes	5286.0MHz, -56.0dBm	5543, 5664, 5339, 5374, 5351, 5296, 5457, 5566, 5541, 5640, 5453, 5630, 5405, 5524, 5641, 5621, 5635, 5366, 5622, 5272, 5670, 5574, 5259, 5690, 5681, 5656, 5380, 5565, 5428, 5395, 5514, 5525, 5411, 5475, 5439, 5297, 5437, 5615, 5481, 5693, 5423, 5305, 5350, 5554, 5528, 5436, 5376, 5552, 5284, 5684, 5420, 5417, 5396, 5389, 5704, 5669, 5512, 5513, 5387, 5695, 5679, 5647, 5609, 5723, 5281, 5277, 5536, 5489, 5332, 5540, 5682, 5689, 5279, 5465, 5485, 5283, 5429, 5599, 5561, 5382, 5697, 5413, 5319, 5667, 5568, 5458, 5353, 5327, 5660, 5576, 5652, 5270, 5334, 5507, 5421, 5602, 5486, 5318, 5480, 5274 (6 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
9	9	1.0	333.0	Yes	5287.0MHz, -56.0dBm	5377, 5480, 5526, 5644, 5706, 5398, 5481, 5465, 5423, 5448, 5396, 5687, 5496, 5542, 5689, 5435, 5688, 5513, 5417, 5494, 5287, 5646, 5285, 5501, 5298, 5595, 5576, 5279, 5565, 5409, 5599, 5703, 5519, 5506, 5512, 5661, 5690, 5442, 5669, 5560, 5406, 5638, 5575, 5624, 5308, 5331, 5253, 5281, 5358, 5258, 5549, 5495, 5563, 5628, 5483, 5642, 5497, 5350, 5293, 5633, 5265, 5478, 5577, 5449, 5359, 5694, 5632, 5476, 5260, 5272, 5582, 5322, 5375, 5720, 5718, 5584, 5420, 5713, 5282, 5421, 5491, 5363, 5574, 5474, 5657, 5564, 5571, 5517, 5466, 5411, 5721, 5548, 5446, 5568, 5302, 5711, 5527, 5623, 5269, 5274 (7 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
10	9	1.0	333.0	Yes	5288.0MHz, -56.0dBm	5474, 5715, 5528, 5335, 5716, 5491, 5393, 5423, 5547, 5311, 5594, 5641, 5505, 5653, 5287, 5570, 5315, 5265, 5539, 5481, 5339, 5285, 5426, 5347, 5478, 5636, 5334, 5637, 5363, 5681, 5456, 5611, 5501, 5621, 5669, 5550, 5376, 5544, 5723, 5258, 5308, 5373, 5259, 5606, 5552, 5722, 5303, 5642, 5506, 5565, 5671, 5483, 5701, 5584, 5425, 5435, 5711, 5567, 5500, 5496, 5457, 5508, 5396, 5337, 5529, 5356, 5603, 5476, 5610, 5647, 5282, 5412, 5702, 5693, 5575, 5488, 5662, 5439, 5520, 5518, 5564, 5707, 5533, 5604, 5685, 5331, 5409, 5403, 5489, 5558, 5572, 5482, 5593, 5298, 5453, 5354, 5336, 5639, 5312, 5260 (4 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
11	9	1.0	333.0	Yes	5289.0MHz, -56.0dBm	5358, 5273, 5370, 5619, 5598, 5388, 5547, 5389, 5377, 5433, 5525, 5417, 5516, 5421, 5348, 5515, 5301, 5365, 5559, 5595, 5501, 5572, 5700, 5530, 5495, 5577, 5498, 5612, 5471, 5663, 5527, 5709, 5409, 5499, 5264, 5411, 5706, 5562, 5543, 5674, 5721, 5684, 5361, 5443, 5274, 5624, 5686, 5331, 5374, 5390, 5725, 5524, 5255, 5379, 5553, 5272, 5384, 5258, 5405, 5606, 5336, 5585, 5712, 5685, 5505, 5447, 5454, 5564, 5292, 5268, 5500, 5670, 5486, 5509, 5335, 5723, 5380, 5531, 5344, 5400, 5317, 5720, 5477, 5508, 5715, 5439, 5490, 5534, 5452, 5436, 5611, 5610, 5294, 5493, 5451, 5550, 5648, 5653, 5586, 5703 (2 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
12	9	1.0	333.0	Yes	5290.0MHz, -56.0dBm	5627, 5600, 5724, 5709, 5308, 5428, 5456, 5426, 5628, 5576, 5255, 5602, 5646, 5436, 5557, 5544, 5615, 5699, 5491, 5553, 5340, 5463, 5469, 5672, 5652, 5292, 5541, 5414, 5584, 5528, 5573, 5337, 5620, 5357, 5551, 5682, 5717, 5519, 5298, 5630, 5670, 5435, 5683, 5611, 5522, 5434, 5413, 5625, 5516, 5381, 5258, 5662, 5612, 5489, 5669, 5532, 5356, 5332, 5324, 5341, 5575, 5277, 5403, 5380, 5675, 5515, 5632, 5525, 5417, 5344, 5597, 5487, 5336, 5322, 5331, 5253, 5607, 5481, 5305, 5445, 5326, 5718, 5605, 5538, 5543, 5644, 5412, 5484, 5286, 5536, 5687, 5365, 5309, 5654, 5335, 5701, 5608, 5694, 5444, 5500 (3 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
13	9	1.0	333.0	Yes	5291.0MHz, -56.0dBm	5641, 5618, 5688, 5291, 5383, 5347, 5645, 5474, 5333, 5630, 5341, 5433, 5404, 5400, 5579, 5444, 5354, 5253, 5702, 5479, 5679, 5301, 5259, 5615, 5439, 5716, 5464, 5542, 5712, 5463, 5581, 5274, 5344, 5503, 5351, 5449, 5622, 5328, 5307, 5466, 5611, 5287, 5348, 5545, 5251, 5497, 5309, 5553, 5481, 5330, 5654, 5690, 5548, 5566, 5279, 5584, 5512, 5487, 5576, 5547, 5501, 5425, 5686, 5315, 5639, 5703, 5531, 5647, 5392, 5450, 5471, 5607, 5578, 5715, 5260, 5539, 5495, 5536, 5324, 5507, 5577, 5261, 5671, 5557, 5322, 5362, 5708, 5499, 5262, 5574, 5353, 5254, 5558, 5289, 5276, 5699, 5662, 5300, 5528, 5271 (5 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
14	9	1.0	333.0	Yes	5292.0MHz, -56.0dBm	5672, 5519, 5352, 5524, 5626, 5317, 5593, 5403, 5460, 5288, 5500, 5709, 5307, 5448, 5725, 5313, 5341, 5531, 5610, 5486, 5417, 5382, 5289, 5716, 5303, 5292, 5566, 5475, 5652, 5499, 5259, 5644, 5623, 5614, 5586, 5364, 5404, 5645, 5627, 5412, 5370, 5250, 5391, 5714, 5692, 5284, 5450, 5258, 5595, 5489, 5329, 5483, 5425, 5501, 5650, 5497, 5511, 5291, 5675, 5374, 5309, 5476, 5380, 5688, 5603, 5717, 5345, 5700, 5397, 5360, 5421, 5622, 5523, 5322, 5502, 5344, 5472, 5659, 5330, 5441, 5585, 5481, 5514, 5485, 5667, 5541, 5290, 5336, 5512, 5629, 5467, 5427, 5384, 5602, 5589, 5298, 5685, 5699, 5455, 5571 (7 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
15	9	1.0	333.0	Yes	5293.0MHz, -56.0dBm	5616, 5271, 5421, 5290, 5652, 5440, 5453, 5267, 5438, 5589, 5564, 5476, 5255, 5282, 5253, 5694, 5461, 5716, 5428, 5648, 5338, 5420, 5541, 5500, 5370, 5512, 5695, 5279, 5579, 5526, 5422, 5464, 5700, 5617, 5560, 5561, 5467, 5251, 5594, 5627, 5298, 5316, 5520, 5300, 5455, 5342, 5670, 5394, 5337, 5502, 5718, 5501, 5674, 5340, 5388, 5272, 5442, 5264, 5666, 5522, 5419, 5376, 5487, 5303, 5448, 5415, 5443, 5352, 5286, 5277, 5393, 5644, 5557, 5305, 5604, 5491, 5360, 5607, 5262, 5511, 5531, 5503, 5329, 5493, 5403, 5577, 5398, 5292, 5478, 5638, 5562, 5483, 5320, 5314, 5390, 5653, 5353, 5691, 5344, 5590 (7 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
16	9	1.0	333.0	Yes	5294.0MHz, -56.0dBm	5604, 5514, 5681, 5645, 5493, 5288, 5552, 5527, 5447, 5498, 5700, 5306, 5568, 5697, 5269, 5294, 5499, 5412, 5721, 5524, 5660, 5545, 5682, 5630, 5280, 5702, 5532, 5370, 5390, 5525, 5252, 5379, 5426, 5286, 5716, 5536, 5347, 5357, 5404, 5325, 5538, 5458, 5328, 5544, 5384, 5450, 5563, 5293, 5339, 5556, 5443, 5491, 5529, 5606, 5358, 5492, 5488, 5301, 5431, 5337, 5367, 5600, 5622, 5658, 5594, 5627, 5380, 5297, 5588, 5522, 5330, 5699, 5655, 5312, 5340, 5398, 5262, 5441, 5359, 5400, 5640, 5683, 5551, 5496, 5363, 5423, 5506, 5323, 5534, 5257, 5382, 5385, 5374, 5573, 5467, 5565, 5356, 5343, 5289, 5457 (7 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
17	9	1.0	333.0	Yes	5295.0MHz, -56.0dBm	5498, 5607, 5400, 5587, 5327, 5719, 5540, 5681, 5483, 5349, 5481, 5286, 5547, 5664, 5474, 5449, 5259, 5534, 5433, 5287, 5309, 5694, 5702, 5711, 5315, 5655, 5512, 5677, 5450, 5675, 5395, 5409, 5308, 5714, 5410, 5412, 5425, 5647, 5539, 5527, 5460, 5599, 5707, 5584, 5505, 5592, 5329, 5437, 5586, 5477, 5520, 5722, 5396, 5340, 5626, 5511, 5320, 5616, 5642, 5490, 5414, 5724, 5472, 5565, 5536, 5700, 5559, 5371, 5380, 5456, 5615, 5419, 5662, 5524, 5467, 5264, 5458, 5633, 5445, 5468, 5516, 5365, 5671, 5605, 5665, 5674, 5551, 5688, 5252, 5602, 5398, 5666, 5712, 5321, 5543, 5634, 5537, 5324, 5690, 5571 (2 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
18	9	1.0	333.0	Yes	5296.0MHz, -56.0dBm	5598, 5440, 5489, 5342, 5452, 5301, 5303, 5420, 5676, 5380, 5369, 5521, 5322, 5506, 5602, 5605, 5323, 5283, 5524, 5383, 5319, 5273, 5505, 5338, 5321, 5526, 5535, 5341, 5336, 5625, 5504, 5358, 5485, 5572, 5708, 5575, 5464, 5335, 5329, 5391, 5596, 5645, 5670, 5532, 5628, 5646, 5455, 5512, 5593, 5543, 5470, 5343, 5355, 5422, 5473, 5357, 5540, 5508, 5491, 5393, 5459, 5481, 5284, 5366, 5570, 5606, 5401, 5361, 5404, 5679, 5707, 5377, 5704, 5689, 5429, 5594, 5376, 5548, 5457, 5360, 5274, 5280, 5316, 5396, 5441, 5589, 5297, 5411, 5680, 5701, 5487, 5302, 5339, 5636, 5541, 5399, 5687, 5311, 5438, 5456 (4 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
19	9	1.0	333.0	Yes	5297.0MHz, -56.0dBm	5483, 5695, 5631, 5264, 5620, 5698, 5268, 5686, 5310, 5359, 5603, 5655, 5622, 5656, 5682, 5586, 5672, 5429, 5427, 5707, 5677, 5556, 5386, 5374, 5439, 5517, 5473, 5531, 5571, 5435, 5349, 5709, 5361, 5504, 5551, 5420, 5587, 5261, 5596, 5702, 5578, 5690, 5296, 5601, 5279, 5577, 5600, 5715, 5308, 5509, 5607, 5466, 5671, 5700, 5583, 5530, 5271, 5446, 5384, 5343, 5566, 5326, 5687, 5433, 5306, 5676, 5331, 5627, 5289, 5657, 5368, 5525, 5725, 5608, 5625, 5367, 5372, 5424, 5437, 5423, 5440, 5621, 5544, 5438, 5659, 5484, 5469, 5480, 5463, 5309, 5505, 5705, 5419, 5632, 5357, 5340, 5652, 5559, 5689, 5575 (3 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
20	9	1.0	333.0	Yes	5298.0MHz, -56.0dBm	5415, 5589, 5667, 5545, 5362, 5321, 5253, 5295, 5655, 5585, 5724, 5289, 5331, 5686, 5681, 5652, 5465, 5303, 5324, 5305, 5385, 5307, 5380, 5428, 5302, 5627, 5275, 5383, 5389, 5326, 5272, 5459, 5343, 5629, 5480, 5353, 5311, 5470, 5405, 5665, 5693, 5355, 5561, 5487, 5349, 5523, 5502, 5284, 5626, 5573, 5595, 5606, 5261, 5467, 5555, 5458, 5614, 5599, 5344, 5603, 5438, 5593, 5721, 5263, 5671, 5286, 5612, 5493, 5271, 5669, 5294, 5613, 5666, 5387, 5299, 5621, 5611, 5581, 5602, 5725, 5679, 5661, 5391, 5656, 5517, 5713, 5437, 5373, 5601, 5450, 5563, 5429, 5367, 5507, 5558, 5587, 5304, 5508, 5631, 5584 (6 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
21	9	1.0	333.0	Yes	5299.0MHz, -56.0dBm	5277, 5517, 5314, 5263, 5402, 5606, 5505, 5581, 5529, 5507, 5330, 5657, 5345, 5398, 5544, 5458, 5681, 5689, 5550, 5496, 5582, 5715, 5333, 5714, 5363, 5525, 5510, 5372, 5625, 5518, 5487, 5295, 5514, 5604, 5287, 5354, 5697, 5611, 5479, 5463, 5589, 5648, 5549, 5642, 5482, 5659, 5304, 5488, 5538, 5299, 5429, 5576, 5303, 5547, 5704, 5332, 5618, 5348, 5693, 5499, 5531, 5540, 5408, 5331, 5298, 5556, 5515, 5434, 5708, 5561, 5273, 5443, 5578, 5410, 5420, 5610, 5471, 5318, 5564, 5260, 5382, 5522, 5634, 5500, 5416, 5587, 5645, 5669, 5628, 5632, 5639, 5485, 5399, 5620, 5680, 5665, 5627, 5513, 5419, 5503 (4 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
22	9	1.0	333.0	Yes	5300.0MHz, -56.0dBm	5497, 5389, 5597, 5313, 5571, 5337, 5501, 5592, 5428, 5568, 5640, 5621, 5542, 5630, 5415, 5250, 5424, 5400, 5438, 5378, 5512, 5278, 5468, 5507, 5256, 5608, 5713, 5582, 5519, 5587, 5420, 5500, 5397, 5603, 5688, 5307, 5622, 5521, 5641, 5554, 5558, 5375, 5596, 5477, 5697, 5594, 5418, 5576, 5624, 5435, 5593, 5575, 5294, 5706, 5486, 5461, 5259, 5345, 5541, 5574, 5471, 5531, 5306, 5539, 5454, 5667, 5312, 5584, 5651, 5694, 5457, 5484, 5585, 5686, 5391, 5506, 5525, 5372, 5346, 5301, 5513, 5297, 5647, 5705, 5612, 5710, 5645, 5724, 5382, 5517, 5714, 5707, 5618, 5483, 5557, 5583, 5573, 5704, 5384, 5311 (2 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
23	9	1.0	333.0	Yes	5301.0MHz, -56.0dBm	5666, 5338, 5555, 5287, 5285, 5603, 5568, 5303, 5557, 5519, 5361, 5432, 5481, 5673, 5523, 5356, 5559, 5319, 5706, 5611, 5276, 5614, 5270, 5438, 5685, 5256, 5492, 5443, 5440, 5565, 5502, 5422, 5364, 5626, 5587, 5617, 5453, 5457, 5275, 5477, 5478, 5681, 5377, 5554, 5375, 5424, 5452, 5284, 5510, 5371, 5423, 5534, 5263, 5294, 5604, 5277, 5399, 5513, 5342, 5503, 5573, 5616, 5490, 5677, 5475, 5365, 5278, 5255, 5619, 5372, 5274, 5398, 5468, 5310, 5648, 5312, 5724, 5351, 5324, 5327, 5347, 5479, 5718, 5590, 5264, 5289, 5299, 5449, 5413, 5562, 5647, 5625, 5417, 5266, 5411, 5709, 5267, 5252, 5460, 5719 (8 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
24	9	1.0	333.0	Yes	5278.0MHz, -56.0dBm	5351, 5483, 5491, 5453, 5648, 5258, 5312, 5503, 5307, 5544, 5640, 5447, 5502, 5521, 5437, 5475, 5543, 5354, 5597, 5652, 5284, 5335, 5587, 5371, 5651, 5603, 5355, 5467, 5402, 5490, 5545, 5564, 5333, 5514, 5581, 5254, 5420, 5338, 5343, 5578, 5669, 5426, 5673, 5481, 5314, 5376, 5321, 5608, 5549, 5363, 5285, 5617, 5416, 5574, 5274, 5642, 5684, 5531, 5378, 5342, 5541, 5675, 5484, 5357, 5626, 5273, 5472, 5632, 5654, 5367, 5377, 5657, 5612, 5309, 5563, 5705, 5633, 5310, 5582, 5428, 5526, 5630, 5422, 5353, 5482, 5384, 5404, 5496, 5317, 5425, 5394, 5573, 5708, 5517, 5704, 5304, 5301, 5686, 5530, 5474 (3 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
25	9	1.0	333.0	Yes	5279.0MHz, -56.0dBm	5251, 5366, 5284, 5314, 5550, 5536, 5312, 5529, 5688, 5407, 5448, 5446, 5453, 5416, 5509, 5636, 5346, 5546, 5276, 5532, 5698, 5267, 5683, 5625, 5415, 5463, 5665, 5631, 5681, 5692, 5426, 5441, 5602, 5349, 5595, 5282, 5662, 5537, 5358, 5505, 5422, 5644, 5359, 5263, 5632, 5472, 5306, 5440, 5437, 5530, 5489, 5456, 5492, 5384, 5677, 5409, 5515, 5413, 5659, 5553, 5347, 5551, 5649, 5725, 5538, 5661, 5412, 5483, 5666, 5406, 5414, 5295, 5478, 5328, 5600, 5442, 5394, 5552, 5540, 5308, 5531, 5467, 5608, 5499, 5701, 5285, 5572, 5703, 5352, 5371, 5588, 5526, 5621, 5449, 5461, 5496, 5454, 5710, 5296, 5305 (5 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
26	9	1.0	333.0	Yes	5280.0MHz, -56.0dBm	5645, 5683, 5396, 5283, 5388, 5574, 5564, 5703, 5648, 5565, 5510, 5677, 5693, 5302, 5682, 5431, 5616, 5380, 5619, 5305, 5353, 5629, 5599, 5446, 5448, 5416, 5522, 5687, 5496, 5444, 5252, 5468, 5354, 5649, 5665, 5500, 5270, 5719, 5262, 5717, 5716, 5390, 5450, 5424, 5580, 5257, 5585, 5710, 5315, 5394, 5365, 5561, 5539, 5513, 5569, 5445, 5514, 5609, 5382, 5307, 5655, 5664, 5402, 5601, 5398, 5545, 5625, 5465, 5418, 5604, 5661, 5618, 5295, 5438, 5592, 5323, 5530, 5447, 5349, 5697, 5281, 5644, 5506, 5260, 5436, 5408, 5479, 5348, 5484, 5576, 5534, 5282, 5336, 5481, 5312, 5343, 5276, 5491, 5271, 5526 (4 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
27	9	1.0	333.0	Yes	5281.0MHz, -56.0dBm	5466, 5489, 5279, 5305, 5630, 5634, 5446, 5482, 5389, 5475, 5600, 5717, 5294, 5285, 5364, 5252, 5382, 5467, 5383, 5299, 5454, 5303, 5692, 5597, 5522, 5337, 5710, 5393, 5251, 5580, 5274, 5603, 5346, 5297, 5262, 5722, 5332, 5669, 5543, 5476, 5379, 5619, 5391, 5485, 5631, 5306, 5587, 5623, 5526, 5674, 5658, 5449, 5433, 5315, 5586, 5647, 5290, 5646, 5531, 5524, 5481, 5596, 5490, 5363, 5650, 5612, 5575, 5295, 5657, 5334, 5281, 5523, 5425, 5368, 5570, 5267, 5462, 5471, 5417, 5574, 5324, 5611, 5378, 5549, 5624, 5307, 5336, 5365, 5555, 5725, 5453, 5253, 5562, 5384, 5698, 5724, 5431, 5369, 5667, 5286 (9 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
28	9	1.0	333.0	Yes	5282.0MHz, -56.0dBm	5601, 5573, 5382, 5594, 5552, 5258, 5409, 5338, 5519, 5648, 5642, 5374, 5680, 5424, 5373, 5439, 5689, 5534, 5461, 5291, 5360, 5626, 5332, 5530, 5708, 5513, 5553, 5411, 5403, 5621, 5674, 5346, 5535, 5664, 5287, 5370, 5321, 5426, 5443, 5639, 5678, 5438, 5671, 5589, 5436, 5363, 5652, 5501, 5632, 5507, 5593, 5251, 5420, 5323, 5506, 5313, 5349, 5679, 5487, 5299, 5286, 5341, 5694, 5421, 5655, 5538, 5310, 5657, 5429, 5336, 5298, 5528, 5340, 5544, 5716, 5478, 5417, 5618, 5677, 5669, 5307, 5449, 5261, 5629, 5489, 5587, 5597, 5556, 5441, 5394, 5364, 5319, 5527, 5542, 5339, 5698, 5510, 5387, 5560, 5296 (6 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
29	9	1.0	333.0	Yes	5283.0MHz, -56.0dBm	5331, 5646, 5633, 5521, 5319, 5662, 5606, 5550, 5557, 5275, 5362, 5711, 5702, 5457, 5338, 5469, 5539, 5616, 5641, 5479, 5482, 5440, 5324, 5276, 5261, 5454, 5649, 5586, 5653, 5485, 5687, 5296, 5302, 5560, 5575, 5695, 5591, 5690, 5344, 5297, 5298, 5432, 5621, 5364, 5503, 5592, 5312, 5434, 5351, 5571, 5260, 5681, 5427, 5336, 5465, 5698, 5478, 5645, 5330, 5701, 5320, 5498, 5553, 5642, 5554, 5341, 5374, 5473, 5352, 5300, 5285, 5517, 5283, 5380, 5674, 5650, 5531, 5379, 5357, 5600, 5572, 5599, 5523, 5549, 5418, 5339, 5251, 5476, 5715, 5643, 5416, 5318, 5651, 5269, 5561, 5345, 5604, 5447, 5347, 5691 (6 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
30	9	1.0	333.0	Yes	5284.0MHz, -56.0dBm	5322, 5673, 5491, 5558, 5722, 5472, 5564, 5359, 5670, 5515, 5504, 5557, 5430, 5287, 5687, 5473, 5505, 5638, 5273, 5428, 5575, 5556, 5608, 5708, 5574, 5627, 5524, 5522, 5355, 5563, 5711, 5294, 5655, 5288, 5663, 5446, 5394, 5377, 5297, 5671, 5629, 5402, 5403, 5700, 5438, 5566, 5706, 5313, 5568, 5456, 5401, 5480, 5549, 5278, 5653, 5476, 5424, 5667, 5615, 5258, 5265, 5348, 5358, 5296, 5448, 5592, 5418, 5681, 5291, 5293, 5602, 5253, 5654, 5683, 5460, 5689, 5639, 5447, 5625, 5630, 5571, 5551, 5494, 5295, 5444, 5601, 5536, 5283, 5635, 5669, 5365, 5378, 5586, 5270, 5454, 5705, 5310, 5326, 5300, 5479 (10 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
31	9	1.0	333.0	Yes	5285.0MHz, -56.0dBm	5594, 5524, 5253, 5609, 5624, 5470, 5409, 5641, 5518, 5573, 5355, 5452, 5374, 5300, 5391, 5475, 5402, 5661, 5634, 5494, 5464, 5612, 5418, 5449, 5717, 5589, 5571, 5381, 5400, 5627, 5706, 5377, 5485, 5272, 5422, 5552, 5363, 5484, 5488, 5657, 5569, 5448, 5567, 5466, 5520, 5284, 5313, 5651, 5365, 5344, 5276, 5265, 5700, 5289, 5635, 5607, 5440, 5610, 5530, 5720, 5251, 5630, 5616, 5645, 5339, 5525, 5546, 5614, 5629, 5721, 5358, 5356, 5469, 5664, 5562, 5445, 5713, 5454, 5572, 5708, 5710, 5399, 5336, 5314, 5347, 5303, 5450, 5642, 5670, 5498, 5593, 5677, 5337, 5482, 5619, 5376, 5442, 5676, 5577, 5357 (3 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
32	9	1.0	333.0	Yes	5286.0MHz, -56.0dBm	5720, 5354, 5363, 5669, 5674, 5385, 5284, 5313, 5310, 5594, 5424, 5514, 5591, 5601, 5335, 5476, 5428, 5303, 5684, 5530, 5475, 5387, 5642, 5380, 5436, 5725, 5449, 5461, 5486, 5723, 5551, 5296, 5649, 5450, 5619, 5610, 5488, 5325, 5334, 5261, 5717, 5623, 5646, 5490, 5269, 5617, 5275, 5620, 5711, 5624, 5455, 5567, 5724, 5439, 5319, 5708, 5621, 5323, 5403, 5264, 5288, 5409, 5309, 5529, 5589, 5469, 5472, 5697, 5471, 5548, 5371, 5435, 5605, 5500, 5431, 5346, 5499, 5573, 5441, 5722, 5632, 5298, 5583, 5584, 5557, 5699, 5533, 5377, 5525, 5311, 5330, 5716, 5553, 5405, 5648, 5370, 5492, 5398, 5266, 5273 (4 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
33	9	1.0	333.0	Yes	5287.0MHz, -56.0dBm	5594, 5513, 5716, 5508, 5663, 5557, 5521, 5685, 5695, 5575, 5496, 5559, 5597, 5691, 5284, 5377, 5364, 5616, 5540, 5672, 5658, 5273, 5403, 5617, 5491, 5449, 5655, 5339, 5468, 5656, 5668, 5602, 5376, 5558, 5634, 5612, 5710, 5689, 5430, 5718, 5711, 5411, 5572, 5287, 5280, 5550, 5285, 5700, 5445, 5673, 5320, 5460, 5453, 5400, 5316, 5578, 5688, 5721, 5367, 5310, 5387, 5454, 5714, 5428, 5606, 5402, 5434, 5413, 5395, 5459, 5302, 5334, 5650, 5347, 5296, 5281, 5647, 5569, 5326, 5582, 5426, 5661, 5317, 5659, 5514, 5343, 5423, 5549, 5539, 5407, 5653, 5498, 5405, 5565, 5490, 5608, 5587, 5360, 5696, 5660 (6 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
34	9	1.0	333.0	Yes	5288.0MHz, -56.0dBm	5405, 5604, 5703, 5421, 5317, 5370, 5558, 5296, 5715, 5550, 5649, 5612, 5632, 5524, 5588, 5315, 5261, 5259, 5538, 5339, 5389, 5330, 5272, 5676, 5613, 5674, 5285, 5326, 5281, 5263, 5268, 5404, 5709, 5264, 5578, 5564, 5380, 5566, 5574, 5290, 5562, 5616, 5476, 5373, 5609, 5457, 5722, 5342, 5520, 5348, 5518, 5436, 5324, 5546, 5671, 5426, 5252, 5624, 5521, 5497, 5706, 5413, 5532, 5424, 5554, 5279, 5576, 5644, 5464, 5665, 5372, 5446, 5620, 5467, 5547, 5608, 5555, 5522, 5443, 5529, 5712, 5655, 5275, 5310, 5475, 5399, 5411, 5509, 5319, 5537, 5659, 5309, 5662, 5287, 5567, 5288, 5571, 5519, 5634, 5684 (7 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
35	9	1.0	333.0	Yes	5289.0MHz, -56.0dBm	5360, 5266, 5711, 5269, 5276, 5643, 5663, 5450, 5632, 5536, 5278, 5325, 5717, 5392, 5409, 5287, 5638, 5608, 5614, 5512, 5621, 5578, 5691, 5458, 5419, 5295, 5596, 5478, 5387, 5286, 5583, 5601, 5374, 5592, 5525, 5427, 5469, 5259, 5487, 5273, 5590, 5715, 5305, 5472, 5351, 5460, 5420, 5468, 5647, 5308, 5655, 5558, 5426, 5365, 5560, 5442, 5710, 5649, 5498, 5433, 5524, 5683, 5485, 5436, 5457, 5559, 5323, 5324, 5585, 5634, 5582, 5656, 5407, 5697, 5628, 5540, 5677, 5453, 5575, 5447, 5699, 5648, 5471, 5318, 5473, 5415, 5569, 5255, 5410, 5356, 5258, 5429, 5684, 5291, 5674, 5502, 5493, 5654, 5586, 5698 (4 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
36	9	1.0	333.0	Yes	5290.0MHz, -56.0dBm	5551, 5445, 5290, 5420, 5693, 5443, 5316, 5298, 5250, 5550, 5366, 5254, 5560, 5724, 5612, 5259, 5475, 5464, 5359, 5674, 5418, 5626, 5374, 5651, 5609, 5394, 5668, 5625, 5696, 5417, 5665, 5408, 5258, 5582, 5636, 5699, 5348, 5289, 5620, 5413, 5543, 5382, 5401, 5722, 5449, 5497, 5317, 5689, 5424, 5664, 5405, 5605, 5439, 5639, 5388, 5716, 5427, 5269, 5707, 5444, 5549, 5293, 5451, 5705, 5276, 5670, 5610, 5321, 5287, 5261, 5656, 5717, 5486, 5663, 5353, 5470, 5351, 5425, 5512, 5600, 5491, 5457, 5344, 5591, 5492, 5552, 5285, 5700, 5456, 5528, 5521, 5632, 5273, 5685, 5539, 5495, 5504, 5719, 5524, 5307 (6 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
37	9	1.0	333.0	Yes	5291.0MHz, -56.0dBm	5485, 5287, 5281, 5349, 5520, 5525, 5613, 5383, 5331, 5426, 5268, 5463, 5530, 5465, 5296, 5432, 5593, 5547, 5448, 5392, 5543, 5304, 5601, 5709, 5488, 5679, 5417, 5500, 5671, 5345, 5495, 5486, 5306, 5666, 5643, 5676, 5624, 5321, 5526, 5555, 5372, 5391, 5305, 5464, 5661, 5397, 5363, 5654, 5398, 5680, 5569, 5263, 5285, 5659, 5596, 5251, 5274, 5416, 5512, 5642, 5633, 5279, 5473, 5462, 5516, 5703, 5322, 5405, 5579, 5338, 5608, 5271, 5413, 5665, 5402, 5374, 5575, 5414, 5277, 5409, 5367, 5636, 5300, 5689, 5284, 5511, 5503, 5461, 5602, 5290, 5315, 5562, 5445, 5341, 5590, 5637, 5340, 5539, 5588, 5452 (8 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
38	9	1.0	333.0	Yes	5292.0MHz, -56.0dBm	5367, 5450, 5317, 5724, 5267, 5555, 5328, 5285, 5506, 5467, 5524, 5636, 5284, 5676, 5434, 5386, 5586, 5371, 5705, 5642, 5443, 5576, 5526, 5307, 5384, 5692, 5358, 5486, 5496, 5536, 5259, 5671, 5375, 5336, 5459, 5509, 5707, 5582, 5303, 5381, 5316, 5455, 5654, 5268, 5723, 5389, 5343, 5668, 5667, 5346, 5589, 5546, 5482, 5662, 5425, 5685, 5690, 5256, 5391, 5556, 5689, 5355, 5378, 5499, 5507, 5609, 5492, 5493, 5394, 5377, 5273, 5523, 5521, 5505, 5694, 5635, 5653, 5428, 5468, 5650, 5621, 5376, 5413, 5480, 5601, 5461, 5306, 5449, 5675, 5489, 5540, 5291, 5569, 5333, 5446, 5687, 5688, 5722, 5257, 5414 (3 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
39	9	1.0	333.0	Yes	5293.0MHz, -56.0dBm	5255, 5424, 5713, 5451, 5690, 5400, 5384, 5396, 5696, 5420, 5288, 5327, 5610, 5585, 5286, 5594, 5541, 5406, 5708, 5322, 5367, 5430, 5530, 5266, 5450, 5592, 5535, 5492, 5273, 5321, 5461, 5497, 5571, 5293, 5695, 5666, 5549, 5687, 5507, 5304, 5568, 5311, 5309, 5395, 5310, 5518, 5721, 5359, 5575, 5440, 5352, 5538, 5335, 5587, 5485, 5336, 5343, 5355, 5662, 5387, 5723, 5613, 5579, 5717, 5295, 5689, 5590, 5570, 5409, 5602, 5668, 5312, 5632, 5536, 5464, 5477, 5605, 5489, 5574, 5474, 5578, 5607, 5682, 5455, 5268, 5332, 5356, 5298, 5706, 5341, 5471, 5408, 5468, 5410, 5683, 5414, 5647, 5303, 5411, 5621 (5 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
40	9	1.0	333.0	Yes	5294.0MHz, -56.0dBm	5464, 5490, 5713, 5595, 5664, 5636, 5379, 5655, 5508, 5333, 5693, 5320, 5665, 5313, 5526, 5552, 5567, 5461, 5350, 5617, 5619, 5701, 5522, 5590, 5276, 5381, 5676, 5572, 5305, 5632, 5523, 5500, 5459, 5548, 5391, 5673, 5480, 5448, 5607, 5725, 5566, 5533, 5721, 5273, 5690, 5322, 5628, 5334, 5255, 5452, 5280, 5677, 5274, 5667, 5485, 5332, 5587, 5579, 5674, 5319, 5269, 5271, 5453, 5662, 5577, 5308, 5718, 5589, 5378, 5496, 5351, 5622, 5668, 5408, 5499, 5321, 5687, 5412, 5382, 5704, 5591, 5638, 5375, 5594, 5715, 5282, 5599, 5520, 5506, 5691, 5440, 5534, 5545, 5683, 5370, 5304, 5406, 5256, 5300, 5253 (3 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
41	9	1.0	333.0	Yes	5295.0MHz, -56.0dBm	5583, 5408, 5301, 5436, 5661, 5477, 5329, 5647, 5416, 5337, 5434, 5525, 5655, 5372, 5688, 5611, 5671, 5596, 5367, 5375, 5711, 5588, 5456, 5460, 5634, 5255, 5521, 5488, 5452, 5572, 5424, 5641, 5626, 5653, 5594, 5447, 5264, 5668, 5275, 5379, 5496, 5529, 5585, 5540, 5695, 5517, 5298, 5378, 5300, 5286, 5565, 5563, 5683, 5566, 5545, 5646, 5719, 5507, 5332, 5383, 5295, 5708, 5349, 5599, 5387, 5438, 5281, 5690, 5686, 5605, 5368, 5360, 5522, 5571, 5273, 5639, 5364, 5672, 5435, 5503, 5356, 5351, 5377, 5392, 5421, 5497, 5270, 5354, 5253, 5633, 5702, 5348, 5536, 5391, 5533, 5318, 5413, 5539, 5562, 5271 (5 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
42	9	1.0	333.0	Yes	5296.0MHz, -56.0dBm	5453, 5258, 5521, 5495, 5539, 5661, 5694, 5383, 5382, 5312, 5367, 5597, 5385, 5427, 5667, 5288, 5467, 5611, 5482, 5717, 5262, 5596, 5478, 5307, 5452, 5696, 5723, 5592, 5550, 5673, 5314, 5344, 5551, 5652, 5689, 5358, 5533, 5588, 5380, 5713, 5418, 5327, 5411, 5617, 5403, 5321, 5555, 5428, 5616, 5430, 5570, 5317, 5472, 5634, 5436, 5477, 5716, 5389, 5322, 5583, 5365, 5562, 5676, 5366, 5390, 5502, 5347, 5279, 5662, 5531, 5432, 5339, 5625, 5355, 5469, 5522, 5264, 5379, 5371, 5603, 5530, 5306, 5534, 5270, 5682, 5485, 5496, 5567, 5393, 5554, 5513, 5311, 5585, 5378, 5674, 5269, 5473, 5445, 5572, 5505 (2 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
43	9	1.0	333.0	Yes	5297.0MHz, -56.0dBm	5342, 5288, 5595, 5422, 5363, 5682, 5570, 5436, 5280, 5304, 5695, 5583, 5455, 5445, 5593, 5698, 5686, 5520, 5431, 5565, 5403, 5672, 5321, 5708, 5628, 5634, 5250, 5712, 5275, 5622, 5457, 5378, 5459, 5407, 5310, 5279, 5673, 5718, 5547, 5263, 5437, 5300, 5586, 5503, 5521, 5334, 5579, 5285, 5492, 5624, 5352, 5262, 5709, 5472, 5632, 5324, 5647, 5440, 5720, 5692, 5696, 5423, 5311, 5297, 5286, 5676, 5386, 5639, 5591, 5253, 5493, 5671, 5269, 5592, 5289, 5387, 5511, 5508, 5410, 5452, 5589, 5261, 5274, 5355, 5641, 5666, 5574, 5703, 5485, 5473, 5685, 5566, 5260, 5495, 5306, 5254, 5694, 5337, 5690, 5604 (8 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
44	9	1.0	333.0	Yes	5298.0MHz, -56.0dBm	5359, 5444, 5392, 5274, 5338, 5269, 5290, 5364, 5636, 5252, 5533, 5648, 5471, 5622, 5719, 5325, 5407, 5621, 5370, 5466, 5474, 5530, 5695, 5460, 5454, 5510, 5428, 5376, 5588, 5586, 5420, 5592, 5657, 5646, 5687, 5642, 5548, 5528, 5481, 5280, 5594, 5545, 5567, 5612, 5576, 5532, 5340, 5455, 5672, 5516, 5477, 5451, 5611, 5593, 5279, 5371, 5721, 5357, 5562, 5299, 5511, 5541, 5644, 5394, 5682, 5366, 5660, 5395, 5389, 5551, 5488, 5619, 5369, 5496, 5603, 5662, 5651, 5656, 5449, 5406, 5709, 5502, 5623, 5674, 5509, 5600, 5384, 5281, 5336, 5634, 5322, 5558, 5347, 5647, 5632, 5553, 5585, 5462, 5254, 5491 (5 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
45	9	1.0	333.0	Yes	5299.0MHz, -56.0dBm	5416, 5434, 5361, 5662, 5552, 5465, 5522, 5334, 5595, 5412, 5362, 5509, 5642, 5617, 5343, 5678, 5369, 5463, 5295, 5466, 5516, 5330, 5337, 5419, 5327, 5638, 5316, 5447, 5535, 5692, 5372, 5646, 5489, 5351, 5602, 5405, 5683, 5467, 5340, 5594, 5347, 5713, 5393, 5670, 5664, 5449, 5364, 5454, 5367, 5370, 5427, 5435, 5621, 5591, 5320, 5276, 5420, 5390, 5417, 5691, 5676, 5428, 5387, 5375, 5308, 5562, 5503, 5460, 5681, 5339, 5424, 5293, 5607, 5409, 5432, 5501, 5555, 5391, 5380, 5307, 5279, 5456, 5696, 5667, 5612, 5589, 5541, 5616, 5544, 5392, 5306, 5582, 5353, 5658, 5663, 5604, 5288, 5371, 5528, 5461 (4 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
46	9	1.0	333.0	Yes	5300.0MHz, -56.0dBm	5509, 5391, 5585, 5274, 5438, 5434, 5482, 5570, 5536, 5527, 5537, 5427, 5557, 5604, 5345, 5520, 5444, 5362, 5480, 5346, 5458, 5322, 5707, 5642, 5639, 5479, 5440, 5291, 5370, 5687, 5551, 5330, 5316, 5517, 5627, 5295, 5521, 5320, 5504, 5651, 5302, 5647, 5591, 5428, 5505, 5548, 5400, 5473, 5598, 5512, 5342, 5534, 5516, 5393, 5361, 5456, 5478, 5385, 5312, 5547, 5676, 5439, 5631, 5413, 5709, 5500, 5328, 5659, 5602, 5545, 5296, 5258, 5411, 5530, 5578, 5550, 5483, 5722, 5682, 5264, 5311, 5419, 5253, 5690, 5535, 5697, 5308, 5365, 5406, 5407, 5267, 5298, 5614, 5292, 5371, 5507, 5609, 5554, 5422, 5286 (6 hits)

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected ?	Fr (MHz) and level (dBm)	Hop seq.
47	9	1.0	333.0	Yes	5301.0MHz, -56.0dBm	5538, 5522, 5582, 5410, 5361, 5571, 5623, 5648, 5670, 5489, 5313, 5327, 5707, 5362, 5694, 5316, 5656, 5686, 5348, 5482, 5381, 5558, 5268, 5498, 5323, 5534, 5368, 5695, 5277, 5257, 5488, 5513, 5409, 5554, 5379, 5395, 5539, 5255, 5420, 5460, 5660, 5497, 5637, 5325, 5630, 5290, 5457, 5454, 5309, 5371, 5269, 5599, 5627, 5655, 5258, 5585, 5331, 5679, 5312, 5319, 5510, 5518, 5622, 5264, 5500, 5450, 5413, 5501, 5372, 5437, 5426, 5490, 5344, 5471, 5295, 5543, 5626, 5532, 5296, 5691, 5632, 5523, 5563, 5613, 5577, 5680, 5417, 5400, 5346, 5396, 5463, 5334, 5418, 5311, 5696, 5508, 5609, 5428, 5639, 5332 (4 hits)

Table 8 FCC frequency hopping radar (Type 6) Test Results

Long Sequence Trial	Result	Radar Frequency / Amplitude
Trial #1	NOT Detected	5290.0MHz, -56.0dBm
Trial #2	Detected	5290.0MHz, -56.0dBm
Trial #3	Detected	5290.0MHz, -56.0dBm
Trial #4	Detected	5290.0MHz, -56.0dBm
Trial #5	Detected	5290.0MHz, -56.0dBm
Trial #6	Detected	5290.0MHz, -56.0dBm
Trial #7	Detected	5290.0MHz, -56.0dBm
Trial #8	Detected	5290.0MHz, -56.0dBm
Trial #9	Detected	5290.0MHz, -56.0dBm
Trial #10	Detected	5290.0MHz, -56.0dBm
Trial #11	Detected	5290.0MHz, -56.0dBm
Trial #12	Detected	5290.0MHz, -56.0dBm
Trial #13	Detected	5290.0MHz, -56.0dBm
Trial #14	Detected	5290.0MHz, -56.0dBm
Trial #15	Detected	5290.0MHz, -56.0dBm
Trial #16	Detected	5290.0MHz, -56.0dBm
Trial #17	Detected	5290.0MHz, -56.0dBm
Trial #18	Detected	5290.0MHz, -56.0dBm
Trial #19	Detected	5290.0MHz, -56.0dBm
Trial #20	Detected	5290.0MHz, -56.0dBm
Trial #21	Detected	5290.0MHz, -56.0dBm
Trial #22	Detected	5290.0MHz, -56.0dBm

Long Sequence Trial	Result	Radar Frequency / Amplitude
Trial #23	Detected	5290.0MHz, -56.0dBm
Trial #24	Detected	5290.0MHz, -56.0dBm
Trial #25	Detected	5290.0MHz, -56.0dBm
Trial #26	Detected	5290.0MHz, -56.0dBm
Trial #27	Detected	5290.0MHz, -56.0dBm
Trial #28	Detected	5290.0MHz, -56.0dBm
Trial #29	Detected	5290.0MHz, -56.0dBm
Trial #30	Detected	5290.0MHz, -56.0dBm

Table 9 Long Sequence Waveform Summary

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	69.7	18	1232.0	-	0.071588
1	3	87.6	14	1061.0	1395.0	1.882705
2	2	91.3	11	1622.0	-	4.423781
3	3	69.7	6	1815.0	1228.0	4.991096
4	2	98.8	18	1366.0	-	7.234892
5	2	72.9	12	1141.0	-	8.139395
6	2	59.8	6	1495.0	-	10.385017
7	1	54.5	10	-	-	11.105961

Table 10 Long Sequence Waveform Trial#1 (NOT Detected **)**

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	3	81.3	15	1500.0	1774.0	0.045233
1	1	70.6	15	-	-	0.820645
2	2	73.9	18	1486.0	-	1.327170
3	2	75.6	11	1262.0	-	2.212934
4	2	70.0	17	1373.0	-	2.932032
5	2	69.9	6	1674.0	-	3.438678
6	2	84.4	13	1478.0	-	3.892389
7	1	89.9	8	-	-	4.912629
8	2	70.7	15	1219.0	-	5.146343
9	2	71.5	7	1949.0	-	5.982954
10	2	80.6	12	1836.0	-	6.316600
11	2	94.7	13	1485.0	-	7.326344

12	1	52.2	13	-	-	7.820073
13	2	57.6	7	1376.0	-	8.571729
14	1	57.3	16	-	-	9.279456
15	1	86.3	11	-	-	9.980241
16	1	54.0	16	-	-	10.206523
17	3	63.9	8	1253.0	1700.0	11.075070
18	3	72.1	11	1348.0	1815.0	11.942856

Table 11 Long Sequence Waveform Trial#2 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	3	59.5	14	1154.0	1806.0	0.256308
1	3	79.9	12	1162.0	1368.0	1.334177
2	2	62.7	19	1984.0	-	3.115409
3	1	52.5	9	-	-	3.701980
4	2	81.6	11	1043.0	-	4.833755
5	1	60.4	19	-	-	6.061444
6	2	67.4	5	1635.0	-	7.036785
7	2	62.9	8	1608.0	-	7.789557
8	2	90.5	14	1112.0	-	9.202952
9	2	85.5	18	1735.0	-	10.043171
10	1	83.5	5	-	-	11.647267

Table 12 Long Sequence Waveform Trial#3 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	80.6	7	1398.0	-	0.358141
1	2	67.2	14	1134.0	-	2.139945
2	2	79.3	8	1284.0	-	3.483527
3	1	85.8	16	-	-	4.874315
4	3	87.5	9	1069.0	1603.0	5.597605
5	3	85.4	11	1786.0	1542.0	7.471247
6	1	97.9	6	-	-	8.354070
7	3	54.2	7	1057.0	1285.0	9.671145
8	3	71.1	19	1791.0	1832.0	11.489841

Table 13 Long Sequence Waveform Trial#4 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	81.0	8	1365.0	-	0.271505
1	1	75.5	6	-	-	0.938728
2	1	52.3	12	-	-	1.928144
3	2	56.1	8	1597.0	-	2.567250
4	3	55.6	15	1897.0	1562.0	3.014573
5	2	80.9	7	1179.0	-	3.995278

6	2	63.3	15	1785.0	-	5.197289
7	2	64.9	7	1709.0	-	5.811451
8	3	91.0	20	1268.0	1830.0	6.674291
9	1	89.7	20	-	-	7.370604
10	1	98.5	12	-	-	8.083006
11	2	88.1	18	1937.0	-	8.434590
12	1	96.0	7	-	-	9.671949
13	2	77.5	12	1325.0	-	9.968942
14	2	60.9	10	1597.0	-	10.582280
15	2	58.3	6	1645.0	-	11.311179

Table 14 Long Sequence Waveform Trial#5 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	1	51.0	10	-	-	0.436294
1	2	97.4	5	1401.0	-	1.288134
2	3	83.3	18	1716.0	1088.0	1.986199
3	3	89.9	8	1811.0	1071.0	3.109528
4	3	79.3	16	1833.0	1175.0	3.209553
5	1	58.8	19	-	-	4.301013
6	2	96.6	6	1406.0	-	4.824210
7	2	94.0	11	1657.0	-	6.215954
8	2	63.6	17	1637.0	-	6.635059
9	2	91.5	19	1368.0	-	7.376077
10	3	68.7	8	1863.0	1866.0	8.031032
11	2	83.0	19	1910.0	-	8.811949
12	2	89.1	19	1935.0	-	10.176947
13	2	90.2	13	1977.0	-	10.560170
14	3	71.6	6	1317.0	1577.0	11.376982

Table 15 Long Sequence Waveform Trial#6 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	3	62.0	17	1110.0	1187.0	0.190295
1	2	93.3	20	1350.0	-	0.794759
2	3	66.1	8	1163.0	1134.0	1.342090
3	2	81.3	13	1069.0	-	2.091185
4	2	85.5	9	1258.0	-	2.882223
5	3	57.0	6	1844.0	1244.0	3.618783
6	2	97.3	5	1401.0	-	4.144661
7	1	60.6	6	-	-	4.689739
8	3	80.0	18	1340.0	1594.0	5.977184
9	3	57.9	17	1327.0	1832.0	6.118057
10	2	73.4	6	1087.0	-	7.287711
11	2	59.4	19	1320.0	-	7.791780
12	3	77.7	19	1040.0	1408.0	8.350403

13	3	90.7	18	1329.0	1446.0	8.878073
14	1	81.3	13	-	-	9.863095
15	2	62.3	11	1030.0	-	10.109313
16	3	99.5	16	1953.0	1713.0	11.193391
17	3	51.9	15	1149.0	1834.0	11.587448

Table 16 Long Sequence Waveform Trial#7 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	1	72.0	7	-	-	0.500081
1	2	81.6	5	1973.0	-	1.052869
2	3	99.0	7	1642.0	1022.0	1.973789
3	3	61.6	19	1265.0	1663.0	2.438116
4	1	52.3	8	-	-	3.266350
5	2	84.2	10	1279.0	-	4.647819
6	2	97.3	9	1132.0	-	5.324595
7	3	57.6	8	1684.0	1575.0	5.912135
8	3	78.1	14	1493.0	1914.0	6.575290
9	2	55.6	6	1975.0	-	7.295247
10	2	99.5	7	1757.0	-	8.198088
11	1	78.3	12	-	-	9.253466
12	2	66.7	7	1924.0	-	9.870567
13	2	63.9	7	1912.0	-	11.147774
14	2	67.6	12	1975.0	-	11.411155

Table 17 Long Sequence Waveform Trial#8 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	74.0	6	1230.0	-	0.010851
1	2	52.4	18	1773.0	-	1.262527
2	3	58.0	15	1589.0	1831.0	2.283597
3	2	87.9	18	1487.0	-	3.136671
4	2	80.4	18	1834.0	-	3.374282
5	2	63.9	15	1037.0	-	4.389000
6	2	81.4	15	1572.0	-	5.375326
7	2	68.1	9	1697.0	-	5.855793
8	1	66.4	7	-	-	6.653768
9	2	58.8	9	1542.0	-	7.841609
10	3	60.8	18	1857.0	1211.0	8.403762
11	2	94.7	15	1462.0	-	9.340714
12	3	71.1	9	1423.0	1803.0	10.232610
13	2	94.7	18	1160.0	-	10.870087
14	1	96.9	18	-	-	11.416652

Table 18 Long Sequence Waveform Trial#9 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	95.8	17	1221.0	-	0.272196
1	3	78.2	13	1906.0	1515.0	1.172393
2	2	72.7	16	1485.0	-	1.677935
3	3	54.1	15	1998.0	1093.0	2.290353
4	2	52.3	16	1464.0	-	3.180546
5	3	98.0	17	1610.0	1606.0	3.706988
6	3	89.7	14	1761.0	1336.0	4.387626
7	2	82.5	16	1035.0	-	4.816255
8	1	65.3	13	-	-	5.637255
9	1	59.4	10	-	-	6.123389
10	2	93.7	15	1779.0	-	6.767504
11	1	64.6	16	-	-	7.827952
12	2	52.9	18	1850.0	-	8.477065
13	3	79.3	6	1120.0	1369.0	8.678865
14	2	53.0	13	1445.0	-	9.498551
15	1	87.5	19	-	-	10.347373
16	3	86.4	9	1940.0	1814.0	10.740205
17	1	61.9	10	-	-	11.569335

Table 19 Long Sequence Waveform Trial#10 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	55.0	9	1422.0	-	1.077974
1	2	77.0	10	1998.0	-	1.640750
2	2	78.2	13	1879.0	-	3.191783
3	3	77.5	17	1070.0	1111.0	4.114344
4	2	97.2	12	1763.0	-	4.612305
5	1	96.8	16	-	-	5.455851
6	2	88.3	11	1248.0	-	6.775438
7	1	92.3	14	-	-	8.492676
8	1	60.4	8	-	-	9.626960
9	1	75.5	18	-	-	9.893423
10	2	66.5	8	1969.0	-	11.035655

Table 20 Long Sequence Waveform Trial#11 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	3	59.2	14	1958.0	1032.0	0.383059
1	3	83.2	16	1449.0	1580.0	1.342311
2	3	88.0	5	1323.0	1903.0	1.517779
3	2	85.2	17	1140.0	-	2.179666
4	1	82.3	14	-	-	3.431724
5	3	88.0	14	1971.0	1058.0	3.663053
6	1	73.1	6	-	-	4.312170

7	2	93.3	19	1126.0	-	5.084828
8	3	90.1	15	1774.0	1282.0	5.833306
9	2	73.4	12	1699.0	-	6.492801
10	1	79.8	14	-	-	7.068896
11	3	90.1	6	1278.0	1902.0	8.410338
12	3	61.9	17	1609.0	1710.0	9.016575
13	2	52.1	17	1362.0	-	9.332974
14	1	65.2	9	-	-	10.331272
15	2	66.7	12	1817.0	-	10.589192
16	3	68.9	16	1476.0	1764.0	11.675233

Table 21 Long Sequence Waveform Trial#12 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	92.2	19	1962.0	-	0.432417
1	2	70.5	7	1679.0	-	1.752273
2	3	55.4	10	1298.0	1783.0	2.586578
3	2	88.6	14	1453.0	-	3.704564
4	2	51.3	15	1388.0	-	4.245814
5	3	92.9	10	1082.0	1198.0	5.804826
6	1	53.5	11	-	-	6.003736
7	2	68.7	14	1276.0	-	7.580176
8	2	91.4	13	1579.0	-	8.727802
9	2	88.0	6	1183.0	-	9.704382
10	1	73.2	15	-	-	10.235030
11	1	97.0	10	-	-	11.780651

Table 22 Long Sequence Waveform Trial#13 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	59.4	14	1995.0	-	0.901384
1	3	78.3	18	1504.0	1240.0	1.297477
2	3	70.6	6	1048.0	1069.0	2.763554
3	2	51.5	7	1994.0	-	3.776139
4	2	65.5	14	1144.0	-	5.361989
5	2	80.6	14	1545.0	-	6.091579
6	1	84.8	16	-	-	8.326964
7	2	59.1	11	1661.0	-	9.330492
8	1	70.2	13	-	-	10.236066
9	1	69.6	12	-	-	11.325738

Table 23 Long Sequence Waveform Trial#14 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	3	68.1	19	1118.0	1218.0	1.021397

1	1	66.1	14	-	-	2.009452
2	1	84.6	12	-	-	2.404221
3	1	70.9	8	-	-	3.809359
4	2	58.5	5	1491.0	-	4.861564
5	2	92.9	13	1970.0	-	6.367729
6	1	87.6	19	-	-	8.064800
7	3	76.5	17	1641.0	1701.0	8.761941
8	3	67.9	18	1401.0	1746.0	9.965830
9	3	63.0	16	1135.0	1953.0	11.560187

Table 24 Long Sequence Waveform Trial#15 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	66.1	10	1023.0	-	0.642047
1	1	68.9	10	-	-	1.362418
2	2	67.1	12	1783.0	-	2.153220
3	1	98.6	15	-	-	2.993518
4	1	81.3	5	-	-	3.438783
5	3	67.3	8	1873.0	1358.0	4.054185
6	2	70.6	20	1922.0	-	4.527157
7	2	70.2	18	1505.0	-	5.962641
8	1	99.2	16	-	-	6.210786
9	1	80.1	19	-	-	7.439071
10	2	71.7	15	1245.0	-	8.147383
11	2	58.3	9	1358.0	-	8.599089
12	2	79.0	14	1318.0	-	9.154916
13	2	75.9	6	1456.0	-	10.289062
14	2	70.6	19	1934.0	-	10.717915
15	1	67.0	17	-	-	11.361018

Table 25 Long Sequence Waveform Trial#16 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	67.6	7	1770.0	-	0.157153
1	2	75.9	5	1330.0	-	1.070614
2	2	99.6	11	1527.0	-	1.343982
3	2	54.1	10	1246.0	-	2.031812
4	1	92.6	8	-	-	2.795801
5	2	90.7	18	1130.0	-	3.939691
6	3	90.7	18	1425.0	1576.0	4.587296
7	2	79.8	8	1390.0	-	5.285118
8	1	53.5	19	-	-	5.630985
9	2	52.2	10	1826.0	-	6.461246
10	2	59.9	7	1941.0	-	6.991648
11	2	84.4	17	1966.0	-	7.938795
12	3	50.7	7	1266.0	1570.0	8.231863

13	1	79.2	7	-	-	8.881640
14	2	88.8	17	1143.0	-	9.560988
15	2	56.9	16	1626.0	-	10.096408
16	1	92.7	13	-	-	10.968898
17	3	86.8	5	1934.0	1470.0	11.370426

Table 26 Long Sequence Waveform Trial#17 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	3	61.8	12	1486.0	1576.0	0.884960
1	2	100.0	10	1238.0	-	1.986214
2	2	54.4	14	1730.0	-	2.982749
3	3	72.1	7	1642.0	1963.0	3.087250
4	1	96.8	18	-	-	4.294482
5	2	51.9	11	1177.0	-	5.276490
6	2	52.9	17	1224.0	-	6.540826
7	2	79.1	14	1894.0	-	7.036794
8	1	59.2	13	-	-	8.494183
9	1	91.4	13	-	-	9.430324
10	2	96.4	17	1449.0	-	10.542782
11	2	63.2	12	1129.0	-	11.900766

Table 27 Long Sequence Waveform Trial#18 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	1	71.7	8	-	-	0.691144
1	2	62.9	16	1826.0	-	1.796718
2	2	64.8	10	1413.0	-	2.286475
3	1	92.0	18	-	-	3.466525
4	3	76.0	14	1303.0	1812.0	4.858115
5	2	79.3	11	1855.0	-	5.995688
6	1	83.4	7	-	-	6.748289
7	2	88.9	12	1006.0	-	7.743959
8	1	88.4	14	-	-	8.688645
9	2	98.5	10	1328.0	-	9.007533
10	2	88.0	13	1859.0	-	10.725732
11	1	90.1	5	-	-	11.239873

Table 28 Long Sequence Waveform Trial#19 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	99.2	17	1110.0	-	0.242306
1	2	75.0	7	1638.0	-	0.802468
2	3	99.4	7	1664.0	1611.0	1.503399
3	2	50.5	14	1358.0	-	2.353411

4	1	73.0	5	-	-	2.962872
5	2	52.5	9	1186.0	-	3.864326
6	3	80.1	13	1662.0	1446.0	4.206649
7	2	60.6	19	1300.0	-	4.923827
8	2	69.1	15	1021.0	-	5.695101
9	3	73.2	6	1937.0	1421.0	6.387950
10	1	77.2	14	-	-	6.859014
11	1	98.0	12	-	-	7.769998
12	3	58.0	19	1710.0	1193.0	8.319762
13	2	77.8	19	1326.0	-	8.981673
14	1	80.9	7	-	-	9.432999
15	2	69.6	19	1440.0	-	10.447502
16	2	61.7	9	1262.0	-	10.868879
17	1	73.7	18	-	-	11.969578

Table 29 Long Sequence Waveform Trial#20 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	51.3	10	1530.0	-	0.312303
1	2	59.0	13	1714.0	-	1.309053
2	2	79.0	7	1132.0	-	1.913255
3	3	82.2	11	1349.0	1408.0	3.489636
4	1	70.4	12	-	-	4.088226
5	1	80.8	6	-	-	5.489994
6	3	68.4	17	1298.0	1222.0	5.770075
7	2	70.9	6	1298.0	-	6.874111
8	2	76.6	10	1307.0	-	7.585180
9	2	90.3	15	1988.0	-	8.778094
10	1	89.3	10	-	-	9.441488
11	3	72.5	15	1744.0	1684.0	10.954143
12	2	89.7	9	1681.0	-	11.724077

Table 30 Long Sequence Waveform Trial#21 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	3	57.6	6	1149.0	1572.0	0.205079
1	2	96.7	8	1735.0	-	1.426389
2	2	60.3	8	1782.0	-	1.944387
3	2	93.5	8	1684.0	-	2.606427
4	3	89.4	17	1452.0	1526.0	3.596569
5	1	57.3	14	-	-	4.093341
6	3	84.5	19	1295.0	1377.0	4.558738
7	3	75.6	16	1939.0	1246.0	5.615396
8	3	91.3	6	1242.0	1215.0	6.675816
9	3	59.4	20	1885.0	1422.0	7.378128
10	2	68.9	14	1641.0	-	7.655624

11	3	85.1	20	1498.0	1120.0	8.794496
12	3	73.3	13	1130.0	1215.0	9.133586
13	2	80.0	10	1828.0	-	10.275477
14	1	89.6	12	-	-	11.239866
15	3	93.6	7	1056.0	1296.0	11.284206

Table 31 Long Sequence Waveform Trial#22 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	1	50.7	8	-	-	0.552135
1	2	62.6	12	1567.0	-	1.191812
2	2	99.8	7	1394.0	-	1.882022
3	3	54.1	13	1845.0	1550.0	3.159597
4	2	54.2	19	1213.0	-	3.613687
5	3	59.5	5	1987.0	1481.0	4.609529
6	2	70.6	18	1104.0	-	5.591163
7	2	98.6	6	1812.0	-	5.795385
8	1	81.3	15	-	-	6.902493
9	3	78.0	15	1392.0	1642.0	7.905448
10	2	70.5	11	1291.0	-	8.332137
11	2	89.9	18	1255.0	-	9.409701
12	3	89.1	17	1983.0	1037.0	9.783709
13	2	99.2	9	1866.0	-	11.019774
14	2	64.7	9	1888.0	-	11.612403

Table 32 Long Sequence Waveform Trial#23 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	67.3	14	1416.0	-	0.796048
1	3	79.2	11	1527.0	1187.0	1.232174
2	2	84.3	17	1575.0	-	2.722647
3	1	62.1	16	-	-	3.217115
4	3	86.4	7	1050.0	1006.0	4.596666
5	2	72.1	14	1602.0	-	5.556889
6	2	53.6	16	1387.0	-	6.853732
7	2	79.8	5	1851.0	-	7.631735
8	2	81.3	16	1973.0	-	8.252534
9	2	66.0	19	1926.0	-	9.233875
10	2	85.1	20	1824.0	-	10.919448
11	2	52.7	12	1675.0	-	11.098208

Table 33 Long Sequence Waveform Trial#24 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	84.5	18	1984.0	-	0.374165

1	2	76.1	11	1980.0	-	1.941899
2	2	58.3	14	1589.0	-	3.340137
3	2	70.0	6	1519.0	-	4.717393
4	2	92.9	12	1527.0	-	5.452301
5	3	68.7	17	1721.0	1080.0	7.962220
6	3	85.9	7	1196.0	1446.0	9.239332
7	3	61.2	19	1416.0	1605.0	9.626879
8	2	88.1	6	1083.0	-	11.583851

Table 34 Long Sequence Waveform Trial#25 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	88.1	18	1648.0	-	0.290963
1	2	88.1	18	1607.0	-	0.797271
2	3	79.9	18	1307.0	1994.0	1.641176
3	1	57.4	16	-	-	2.466059
4	2	63.6	10	1536.0	-	3.390707
5	2	54.0	18	1301.0	-	3.770247
6	2	92.3	14	1660.0	-	4.672349
7	2	94.3	6	1679.0	-	5.642622
8	1	60.7	5	-	-	6.581374
9	2	66.6	5	1667.0	-	6.942199
10	1	95.8	10	-	-	7.922106
11	1	72.1	12	-	-	8.837647
12	3	50.5	9	1870.0	1058.0	9.100829
13	2	61.5	13	1735.0	-	9.772760
14	2	73.3	19	1109.0	-	11.152083
15	2	51.2	11	1562.0	-	11.819994

Table 35 Long Sequence Waveform Trial#26 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	87.1	15	1984.0	-	0.022161
1	2	94.6	16	1642.0	-	0.795429
2	2	94.3	7	1968.0	-	1.420974
3	1	74.8	12	-	-	2.105308
4	3	55.9	18	1510.0	1806.0	3.033038
5	2	53.8	12	1688.0	-	3.559772
6	2	96.1	19	1045.0	-	4.478057
7	2	54.9	6	1973.0	-	4.838049
8	3	93.0	13	1245.0	1139.0	5.459888
9	1	76.6	10	-	-	6.166111
10	2	75.2	10	1757.0	-	7.012357
11	1	71.5	10	-	-	7.632524
12	3	77.7	10	1475.0	1097.0	8.484821
13	1	55.7	9	-	-	9.077264

14	1	99.1	13	-	-	9.907779
15	2	78.2	20	1861.0	-	10.462785
16	1	91.3	10	-	-	11.233862
17	1	99.5	5	-	-	11.418052

Table 36 Long Sequence Waveform Trial#27 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	90.2	7	1434.0	-	0.555978
1	3	67.8	12	1349.0	1195.0	1.037089
2	1	90.7	17	-	-	1.798752
3	2	71.7	8	1302.0	-	3.091784
4	1	94.6	19	-	-	4.006371
5	3	53.3	7	1273.0	1841.0	4.433518
6	3	63.1	7	1720.0	1830.0	5.405224
7	2	56.4	9	1820.0	-	6.565965
8	3	77.0	11	1561.0	1876.0	6.897580
9	2	88.5	17	1111.0	-	7.944446
10	3	98.7	8	1382.0	1298.0	9.365602
11	2	67.2	19	1837.0	-	10.019693
12	1	85.1	15	-	-	11.062606
13	3	96.1	19	1392.0	1563.0	11.510480

Table 37 Long Sequence Waveform Trial#28 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	81.4	19	1254.0	-	0.765276
1	2	54.3	6	1963.0	-	2.110937
2	2	90.7	11	1328.0	-	2.777474
3	2	88.3	19	1570.0	-	3.650078
4	2	70.5	18	1015.0	-	5.660944
5	2	89.3	7	1765.0	-	6.645789
6	1	65.4	14	-	-	7.603206
7	1	95.8	9	-	-	9.255459
8	3	55.8	17	1261.0	1328.0	10.520022
9	2	77.6	13	1948.0	-	11.069798

Table 38 Long Sequence Waveform Trial#29 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	1	56.5	15	-	-	0.825968
1	2	86.8	6	1412.0	-	1.586152
2	2	59.2	16	1138.0	-	1.887899
3	2	56.7	13	1928.0	-	3.227692
4	2	72.5	10	1502.0	-	4.216704

5	1	77.5	7	-	-	4.659512
6	3	72.3	12	1428.0	1577.0	5.236052
7	1	69.5	13	-	-	6.591704
8	1	92.9	8	-	-	7.442552
9	2	68.8	17	1113.0	-	8.498704
10	3	61.2	13	1950.0	1757.0	9.382359
11	2	90.6	10	1093.0	-	9.470528
12	1	67.7	13	-	-	11.108475
13	2	50.1	8	1526.0	-	11.450207

Table 39 Long Sequence Waveform Trial#30 (Detected)

Bandwidth Detection Trials

UNII Detection Bandwidth determined to be 5278 to 5301 MHz based on center frequency of 5290 MHz using 10 trials at each 1 MHz step around 5290MHz.

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
0	18	1.0	1428.0	No	5277.0MHz, -56.0dBm	N/A
1	18	1.0	1428.0	No	5277.0MHz, -56.0dBm	N/A
2	18	1.0	1428.0	No	5277.0MHz, -56.0dBm	N/A
3	18	1.0	1428.0	No	5277.0MHz, -56.0dBm	N/A
4	18	1.0	1428.0	No	5277.0MHz, -56.0dBm	N/A
5	18	1.0	1428.0	No	5277.0MHz, -56.0dBm	N/A
6	18	1.0	1428.0	No	5277.0MHz, -56.0dBm	N/A
7	18	1.0	1428.0	No	5277.0MHz, -56.0dBm	N/A
8	18	1.0	1428.0	No	5277.0MHz, -56.0dBm	N/A
9	18	1.0	1428.0	No	5277.0MHz, -56.0dBm	N/A
10	18	1.0	1428.0	Yes	5278.0MHz, -56.0dBm	N/A
11	18	1.0	1428.0	Yes	5278.0MHz, -56.0dBm	N/A
12	18	1.0	1428.0	Yes	5278.0MHz, -56.0dBm	N/A
13	18	1.0	1428.0	Yes	5278.0MHz, -56.0dBm	N/A
14	18	1.0	1428.0	Yes	5278.0MHz, -56.0dBm	N/A
15	18	1.0	1428.0	Yes	5278.0MHz, -56.0dBm	N/A
16	18	1.0	1428.0	Yes	5278.0MHz, -56.0dBm	N/A
17	18	1.0	1428.0	Yes	5278.0MHz, -56.0dBm	N/A
18	18	1.0	1428.0	Yes	5278.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
19	18	1.0	1428.0	Yes	5278.0MHz, -56.0dBm	N/A
20	18	1.0	1428.0	Yes	5279.0MHz, -56.0dBm	N/A
21	18	1.0	1428.0	Yes	5279.0MHz, -56.0dBm	N/A
22	18	1.0	1428.0	Yes	5279.0MHz, -56.0dBm	N/A
23	18	1.0	1428.0	Yes	5579.0MHz, -56.0dBm	N/A
24	18	1.0	1428.0	Yes	5279.0MHz, -56.0dBm	N/A
25	18	1.0	1428.0	Yes	5279.0MHz, -56.0dBm	N/A
26	18	1.0	1428.0	Yes	5279.0MHz, -56.0dBm	N/A
27	18	1.0	1428.0	Yes	5279.0MHz, -56.0dBm	N/A
28	18	1.0	1428.0	Yes	5279.0MHz, -56.0dBm	N/A
29	18	1.0	1428.0	Yes	5279.0MHz, -56.0dBm	N/A
30	18	1.0	1428.0	Yes	5280.0MHz, -56.0dBm	N/A
31	18	1.0	1428.0	Yes	5280.0MHz, -56.0dBm	N/A
32	18	1.0	1428.0	Yes	5280.0MHz, -56.0dBm	N/A
33	18	1.0	1428.0	Yes	5580.0MHz, -56.0dBm	N/A
34	18	1.0	1428.0	Yes	5280.0MHz, -56.0dBm	N/A
35	18	1.0	1428.0	Yes	5280.0MHz, -56.0dBm	N/A
36	18	1.0	1428.0	Yes	5280.0MHz, -56.0dBm	N/A
37	18	1.0	1428.0	Yes	5280.0MHz, -56.0dBm	N/A
38	18	1.0	1428.0	Yes	5280.0MHz, -56.0dBm	N/A
39	18	1.0	1428.0	Yes	5280.0MHz, -56.0dBm	N/A
40	18	1.0	1428.0	Yes	5281.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
41	18	1.0	1428.0	Yes	5281.0MHz, -56.0dBm	N/A
42	18	1.0	1428.0	Yes	5281.0MHz, -56.0dBm	N/A
43	18	1.0	1428.0	Yes	5281.0MHz, -56.0dBm	N/A
44	18	1.0	1428.0	Yes	5281.0MHz, -56.0dBm	N/A
45	18	1.0	1428.0	Yes	5281.0MHz, -56.0dBm	N/A
46	18	1.0	1428.0	Yes	5281.0MHz, -56.0dBm	N/A
47	18	1.0	1428.0	Yes	5281.0MHz, -56.0dBm	N/A
48	18	1.0	1428.0	Yes	5281.0MHz, -56.0dBm	N/A
49	18	1.0	1428.0	Yes	5281.0MHz, -56.0dBm	N/A
50	18	1.0	1428.0	Yes	5282.0MHz, -56.0dBm	N/A
51	18	1.0	1428.0	Yes	5282.0MHz, -56.0dBm	N/A
52	18	1.0	1428.0	Yes	5282.0MHz, -56.0dBm	N/A
53	18	1.0	1428.0	Yes	5282.0MHz, -56.0dBm	N/A
54	18	1.0	1428.0	Yes	5282.0MHz, -56.0dBm	N/A
55	18	1.0	1428.0	Yes	5282.0MHz, -56.0dBm	N/A
56	18	1.0	1428.0	Yes	5282.0MHz, -56.0dBm	N/A
57	18	1.0	1428.0	Yes	5282.0MHz, -56.0dBm	N/A
58	18	1.0	1428.0	Yes	5282.0MHz, -56.0dBm	N/A
59	18	1.0	1428.0	Yes	5282.0MHz, -56.0dBm	N/A
60	18	1.0	1428.0	Yes	5283.0MHz, -56.0dBm	N/A
61	18	1.0	1428.0	Yes	5283.0MHz, -56.0dBm	N/A
62	18	1.0	1428.0	Yes	5283.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
63	18	1.0	1428.0	Yes	5283.0MHz, -56.0dBm	N/A
64	18	1.0	1428.0	Yes	5283.0MHz, -56.0dBm	N/A
65	18	1.0	1428.0	Yes	5283.0MHz, -56.0dBm	N/A
66	18	1.0	1428.0	Yes	5283.0MHz, -56.0dBm	N/A
67	18	1.0	1428.0	Yes	5283.0MHz, -56.0dBm	N/A
68	18	1.0	1428.0	Yes	5283.0MHz, -56.0dBm	N/A
69	18	1.0	1428.0	Yes	5283.0MHz, -56.0dBm	N/A
70	18	1.0	1428.0	Yes	5284.0MHz, -56.0dBm	N/A
71	18	1.0	1428.0	Yes	5284.0MHz, -56.0dBm	N/A
72	18	1.0	1428.0	Yes	5284.0MHz, -56.0dBm	N/A
73	18	1.0	1428.0	Yes	5284.0MHz, -56.0dBm	N/A
74	18	1.0	1428.0	Yes	5284.0MHz, -56.0dBm	N/A
75	18	1.0	1428.0	Yes	5284.0MHz, -56.0dBm	N/A
76	18	1.0	1428.0	Yes	5284.0MHz, -56.0dBm	N/A
77	18	1.0	1428.0	Yes	5284.0MHz, -56.0dBm	N/A
78	18	1.0	1428.0	Yes	5284.0MHz, -56.0dBm	N/A
79	18	1.0	1428.0	Yes	5284.0MHz, -56.0dBm	N/A
80	18	1.0	1428.0	Yes	5285.0MHz, -56.0dBm	N/A
81	18	1.0	1428.0	Yes	5285.0MHz, -56.0dBm	N/A
82	18	1.0	1428.0	Yes	5285.0MHz, -56.0dBm	N/A
83	18	1.0	1428.0	Yes	5285.0MHz, -56.0dBm	N/A
84	18	1.0	1428.0	Yes	5285.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
85	18	1.0	1428.0	Yes	5285.0MHz, -56.0dBm	N/A
86	18	1.0	1428.0	Yes	5285.0MHz, -56.0dBm	N/A
87	18	1.0	1428.0	Yes	5285.0MHz, -56.0dBm	N/A
88	18	1.0	1428.0	Yes	5285.0MHz, -56.0dBm	N/A
89	18	1.0	1428.0	Yes	5285.0MHz, -56.0dBm	N/A
90	18	1.0	1428.0	Yes	5286.0MHz, -56.0dBm	N/A
91	18	1.0	1428.0	Yes	5286.0MHz, -56.0dBm	N/A
92	18	1.0	1428.0	Yes	5286.0MHz, -56.0dBm	N/A
93	18	1.0	1428.0	Yes	5286.0MHz, -56.0dBm	N/A
94	18	1.0	1428.0	Yes	5286.0MHz, -56.0dBm	N/A
95	18	1.0	1428.0	Yes	5286.0MHz, -56.0dBm	N/A
96	18	1.0	1428.0	Yes	5286.0MHz, -56.0dBm	N/A
97	18	1.0	1428.0	Yes	5286.0MHz, -56.0dBm	N/A
98	18	1.0	1428.0	Yes	5286.0MHz, -56.0dBm	N/A
99	18	1.0	1428.0	Yes	5286.0MHz, -56.0dBm	N/A
100	18	1.0	1428.0	Yes	5287.0MHz, -56.0dBm	N/A
101	18	1.0	1428.0	Yes	5287.0MHz, -56.0dBm	N/A
102	18	1.0	1428.0	Yes	5287.0MHz, -56.0dBm	N/A
103	18	1.0	1428.0	Yes	5287.0MHz, -56.0dBm	N/A
104	18	1.0	1428.0	Yes	5287.0MHz, -56.0dBm	N/A
105	18	1.0	1428.0	Yes	5287.0MHz, -56.0dBm	N/A
106	18	1.0	1428.0	Yes	5287.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
107	18	1.0	1428.0	Yes	5287.0MHz, -56.0dBm	N/A
108	18	1.0	1428.0	Yes	5287.0MHz, -56.0dBm	N/A
109	18	1.0	1428.0	Yes	5287.0MHz, -56.0dBm	N/A
110	18	1.0	1428.0	Yes	5288.0MHz, -56.0dBm	N/A
111	18	1.0	1428.0	Yes	5288.0MHz, -56.0dBm	N/A
112	18	1.0	1428.0	Yes	5288.0MHz, -56.0dBm	N/A
113	18	1.0	1428.0	Yes	5288.0MHz, -56.0dBm	N/A
114	18	1.0	1428.0	Yes	5288.0MHz, -56.0dBm	N/A
115	18	1.0	1428.0	Yes	5288.0MHz, -56.0dBm	N/A
116	18	1.0	1428.0	Yes	5288.0MHz, -56.0dBm	N/A
117	18	1.0	1428.0	Yes	5288.0MHz, -56.0dBm	N/A
118	18	1.0	1428.0	Yes	5288.0MHz, -56.0dBm	N/A
119	18	1.0	1428.0	Yes	5288.0MHz, -56.0dBm	N/A
120	18	1.0	1428.0	Yes	5289.0MHz, -56.0dBm	N/A
121	18	1.0	1428.0	Yes	5289.0MHz, -56.0dBm	N/A
122	18	1.0	1428.0	Yes	5289.0MHz, -56.0dBm	N/A
123	18	1.0	1428.0	Yes	5289.0MHz, -56.0dBm	N/A
124	18	1.0	1428.0	Yes	5289.0MHz, -56.0dBm	N/A
125	18	1.0	1428.0	Yes	5289.0MHz, -56.0dBm	N/A
126	18	1.0	1428.0	Yes	5289.0MHz, -56.0dBm	N/A
127	18	1.0	1428.0	Yes	5289.0MHz, -56.0dBm	N/A
128	18	1.0	1428.0	Yes	5289.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
129	18	1.0	1428.0	Yes	5289.0MHz, -56.0dBm	N/A

Table 40 FCC UNII Bandwidth Detection Short Pulse Radar (Type 1) Test Results

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
0	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
1	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
2	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
3	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
4	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
5	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
6	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
7	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
8	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
9	18	1.0	1428.0	Yes	5290.0MHz, -56.0dBm	N/A
10	18	1.0	1428.0	Yes	5291.0MHz, -56.0dBm	N/A
11	18	1.0	1428.0	Yes	5291.0MHz, -56.0dBm	N/A
12	18	1.0	1428.0	Yes	5291.0MHz, -56.0dBm	N/A
13	18	1.0	1428.0	Yes	5291.0MHz, -56.0dBm	N/A
14	18	1.0	1428.0	Yes	5291.0MHz, -56.0dBm	N/A
15	18	1.0	1428.0	Yes	5291.0MHz, -56.0dBm	N/A
16	18	1.0	1428.0	Yes	5291.0MHz, -56.0dBm	N/A
17	18	1.0	1428.0	Yes	5291.0MHz, -56.0dBm	N/A
18	18	1.0	1428.0	Yes	5291.0MHz, -56.0dBm	N/A
19	18	1.0	1428.0	Yes	5291.0MHz, -56.0dBm	N/A
20	18	1.0	1428.0	Yes	5292.0MHz, -56.0dBm	N/A
21	18	1.0	1428.0	Yes	5292.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
22	18	1.0	1428.0	Yes	5292.0MHz, -56.0dBm	N/A
23	18	1.0	1428.0	Yes	5292.0MHz, -56.0dBm	N/A
24	18	1.0	1428.0	Yes	5292.0MHz, -56.0dBm	N/A
25	18	1.0	1428.0	Yes	5292.0MHz, -56.0dBm	N/A
26	18	1.0	1428.0	Yes	5292.0MHz, -56.0dBm	N/A
27	18	1.0	1428.0	Yes	5292.0MHz, -56.0dBm	N/A
28	18	1.0	1428.0	Yes	5292.0MHz, -56.0dBm	N/A
29	18	1.0	1428.0	Yes	5292.0MHz, -56.0dBm	N/A
30	18	1.0	1428.0	Yes	5293.0MHz, -56.0dBm	N/A
31	18	1.0	1428.0	Yes	5293.0MHz, -56.0dBm	N/A
32	18	1.0	1428.0	Yes	5293.0MHz, -56.0dBm	N/A
33	18	1.0	1428.0	Yes	5293.0MHz, -56.0dBm	N/A
34	18	1.0	1428.0	Yes	5293.0MHz, -56.0dBm	N/A
35	18	1.0	1428.0	Yes	5293.0MHz, -56.0dBm	N/A
36	18	1.0	1428.0	Yes	5293.0MHz, -56.0dBm	N/A
37	18	1.0	1428.0	Yes	5293.0MHz, -56.0dBm	N/A
38	18	1.0	1428.0	Yes	5293.0MHz, -56.0dBm	N/A
39	18	1.0	1428.0	Yes	5293.0MHz, -56.0dBm	N/A
40	18	1.0	1428.0	Yes	5294.0MHz, -56.0dBm	N/A
41	18	1.0	1428.0	Yes	5294.0MHz, -56.0dBm	N/A
42	18	1.0	1428.0	Yes	5294.0MHz, -56.0dBm	N/A
43	18	1.0	1428.0	Yes	5294.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
44	18	1.0	1428.0	Yes	5294.0MHz, -56.0dBm	N/A
45	18	1.0	1428.0	Yes	5294.0MHz, -56.0dBm	N/A
46	18	1.0	1428.0	Yes	5294.0MHz, -56.0dBm	N/A
47	18	1.0	1428.0	Yes	5294.0MHz, -56.0dBm	N/A
48	18	1.0	1428.0	Yes	5294.0MHz, -56.0dBm	N/A
49	18	1.0	1428.0	Yes	5294.0MHz, -56.0dBm	N/A
50	18	1.0	1428.0	Yes	5295.0MHz, -56.0dBm	N/A
51	18	1.0	1428.0	Yes	5295.0MHz, -56.0dBm	N/A
52	18	1.0	1428.0	Yes	5295.0MHz, -56.0dBm	N/A
53	18	1.0	1428.0	Yes	5295.0MHz, -56.0dBm	N/A
54	18	1.0	1428.0	Yes	5295.0MHz, -56.0dBm	N/A
55	18	1.0	1428.0	Yes	5295.0MHz, -56.0dBm	N/A
56	18	1.0	1428.0	Yes	5295.0MHz, -56.0dBm	N/A
57	18	1.0	1428.0	Yes	5295.0MHz, -56.0dBm	N/A
58	18	1.0	1428.0	Yes	5295.0MHz, -56.0dBm	N/A
59	18	1.0	1428.0	Yes	5295.0MHz, -56.0dBm	N/A
60	18	1.0	1428.0	Yes	5296.0MHz, -56.0dBm	N/A
61	18	1.0	1428.0	Yes	5296.0MHz, -56.0dBm	N/A
62	18	1.0	1428.0	Yes	5296.0MHz, -56.0dBm	N/A
63	18	1.0	1428.0	Yes	5296.0MHz, -56.0dBm	N/A
64	18	1.0	1428.0	Yes	5296.0MHz, -56.0dBm	N/A
65	18	1.0	1428.0	Yes	5296.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
66	18	1.0	1428.0	Yes	5296.0MHz, -56.0dBm	N/A
67	18	1.0	1428.0	Yes	5296.0MHz, -56.0dBm	N/A
68	18	1.0	1428.0	Yes	5296.0MHz, -56.0dBm	N/A
69	18	1.0	1428.0	Yes	5296.0MHz, -56.0dBm	N/A
70	18	1.0	1428.0	Yes	5297.0MHz, -56.0dBm	N/A
71	18	1.0	1428.0	Yes	5297.0MHz, -56.0dBm	N/A
72	18	1.0	1428.0	Yes	5297.0MHz, -56.0dBm	N/A
73	18	1.0	1428.0	Yes	5297.0MHz, -56.0dBm	N/A
74	18	1.0	1428.0	Yes	5297.0MHz, -56.0dBm	N/A
75	18	1.0	1428.0	Yes	5297.0MHz, -56.0dBm	N/A
76	18	1.0	1428.0	Yes	5297.0MHz, -56.0dBm	N/A
77	18	1.0	1428.0	Yes	5297.0MHz, -56.0dBm	N/A
78	18	1.0	1428.0	Yes	5297.0MHz, -56.0dBm	N/A
79	18	1.0	1428.0	Yes	5297.0MHz, -56.0dBm	N/A
80	18	1.0	1428.0	Yes	5298.0MHz, -56.0dBm	N/A
81	18	1.0	1428.0	Yes	5298.0MHz, -56.0dBm	N/A
82	18	1.0	1428.0	Yes	5298.0MHz, -56.0dBm	N/A
83	18	1.0	1428.0	Yes	5298.0MHz, -56.0dBm	N/A
84	18	1.0	1428.0	Yes	5298.0MHz, -56.0dBm	N/A
85	18	1.0	1428.0	Yes	5298.0MHz, -56.0dBm	N/A
86	18	1.0	1428.0	Yes	5298.0MHz, -56.0dBm	N/A
87	18	1.0	1428.0	Yes	5298.0MHz, -56.0dBm	N/A

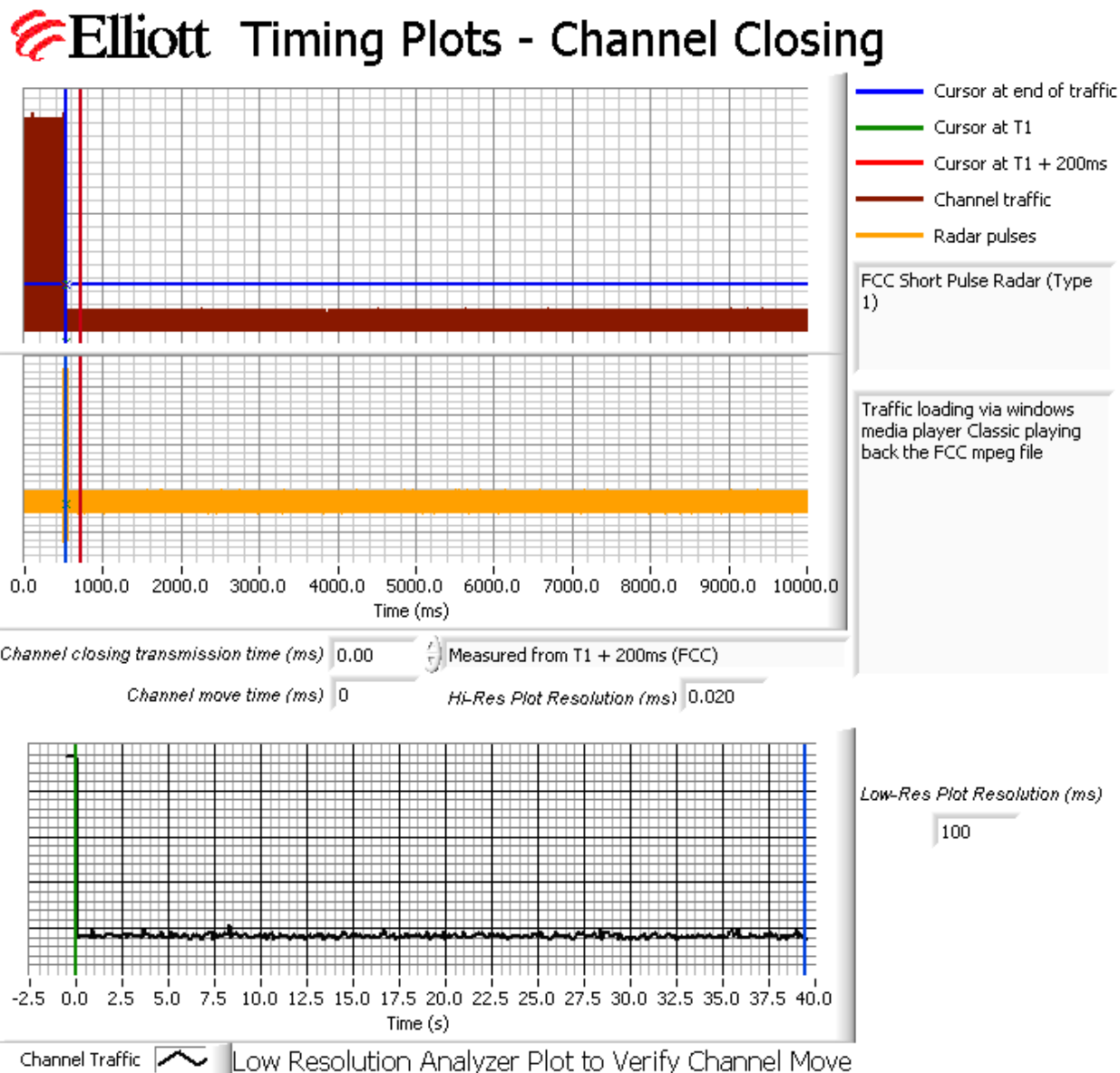
Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
88	18	1.0	1428.0	Yes	5298.0MHz, -56.0dBm	N/A
89	18	1.0	1428.0	Yes	5298.0MHz, -56.0dBm	N/A
90	18	1.0	1428.0	Yes	5299.0MHz, -56.0dBm	N/A
91	18	1.0	1428.0	Yes	5299.0MHz, -56.0dBm	N/A
92	18	1.0	1428.0	Yes	5299.0MHz, -56.0dBm	N/A
93	18	1.0	1428.0	Yes	5299.0MHz, -56.0dBm	N/A
94	18	1.0	1428.0	Yes	5299.0MHz, -56.0dBm	N/A
95	18	1.0	1428.0	Yes	5299.0MHz, -56.0dBm	N/A
96	18	1.0	1428.0	Yes	5299.0MHz, -56.0dBm	N/A
97	18	1.0	1428.0	Yes	5299.0MHz, -56.0dBm	N/A
98	18	1.0	1428.0	Yes	5299.0MHz, -56.0dBm	N/A
99	18	1.0	1428.0	Yes	5299.0MHz, -56.0dBm	N/A
100	18	1.0	1428.0	Yes	5300.0MHz, -56.0dBm	N/A
101	18	1.0	1428.0	Yes	5300.0MHz, -56.0dBm	N/A
102	18	1.0	1428.0	Yes	5300.0MHz, -56.0dBm	N/A
103	18	1.0	1428.0	Yes	5300.0MHz, -56.0dBm	N/A
104	18	1.0	1428.0	Yes	5300.0MHz, -56.0dBm	N/A
105	18	1.0	1428.0	Yes	5300.0MHz, -56.0dBm	N/A
106	18	1.0	1428.0	Yes	5300.0MHz, -56.0dBm	N/A
107	18	1.0	1428.0	Yes	5300.0MHz, -56.0dBm	N/A
108	18	1.0	1428.0	Yes	5300.0MHz, -56.0dBm	N/A
109	18	1.0	1428.0	Yes	5300.0MHz, -56.0dBm	N/A

Trial #	Pulses/Burst	Pulse Width (us)	PRI (us)	Detected?	Fr (MHz) and level (dBm)	Hop seq.
110	18	1.0	1428.0	Yes	5301.0MHz, -56.0dBm	N/A
111	18	1.0	1428.0	Yes	5301.0MHz, -56.0dBm	N/A
112	18	1.0	1428.0	Yes	5301.0MHz, -56.0dBm	N/A
113	18	1.0	1428.0	Yes	5301.0MHz, -56.0dBm	N/A
114	18	1.0	1428.0	Yes	5301.0MHz, -56.0dBm	N/A
115	18	1.0	1428.0	Yes	5301.0MHz, -56.0dBm	N/A
116	18	1.0	1428.0	Yes	5301.0MHz, -56.0dBm	N/A
117	18	1.0	1428.0	Yes	5301.0MHz, -56.0dBm	N/A
118	18	1.0	1428.0	Yes	5301.0MHz, -56.0dBm	N/A
119	18	1.0	1428.0	Yes	5301.0MHz, -56.0dBm	N/A
120	18	1.0	1428.0	No	5302.0MHz, -56.0dBm	N/A
121	18	1.0	1428.0	No	5302.0MHz, -56.0dBm	N/A
122	18	1.0	1428.0	No	5302.0MHz, -56.0dBm	N/A
123	18	1.0	1428.0	No	5302.0MHz, -56.0dBm	N/A
124	18	1.0	1428.0	No	5302.0MHz, -56.0dBm	N/A
125	18	1.0	1428.0	No	5302.0MHz, -56.0dBm	N/A
126	18	1.0	1428.0	No	5302.0MHz, -56.0dBm	N/A
127	18	1.0	1428.0	No	5302.0MHz, -56.0dBm	N/A
128	18	1.0	1428.0	No	5302.0MHz, -56.0dBm	N/A
129	18	1.0	1428.0	No	5302.0MHz, -56.0dBm	N/A

Table 41 FCC UNII Bandwidth Detection Short Pulse Radar (Type 1) Test Results

Appendix C Test Data Tables and Plots for Channel Closing**FCC PART 15 SUBPART E DATA – 5200AP**

Waveform Type	Channel Closing Transmission Time ¹		Channel Move Time		Result
	Measured	Limit	Measured	Limit	
Radar Type 1	0	60 ms	0	10s	Passed
Radar Type 5	0	60 ms	0	10s	Passed

Table 42 FCC Part 15 Subpart E Channel Closing Test Results – 5200AP**Figure 3 Channel closing timing with type 1 radar - 5200AP**

¹ 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.

Elliott Timing Plots - Channel Closing

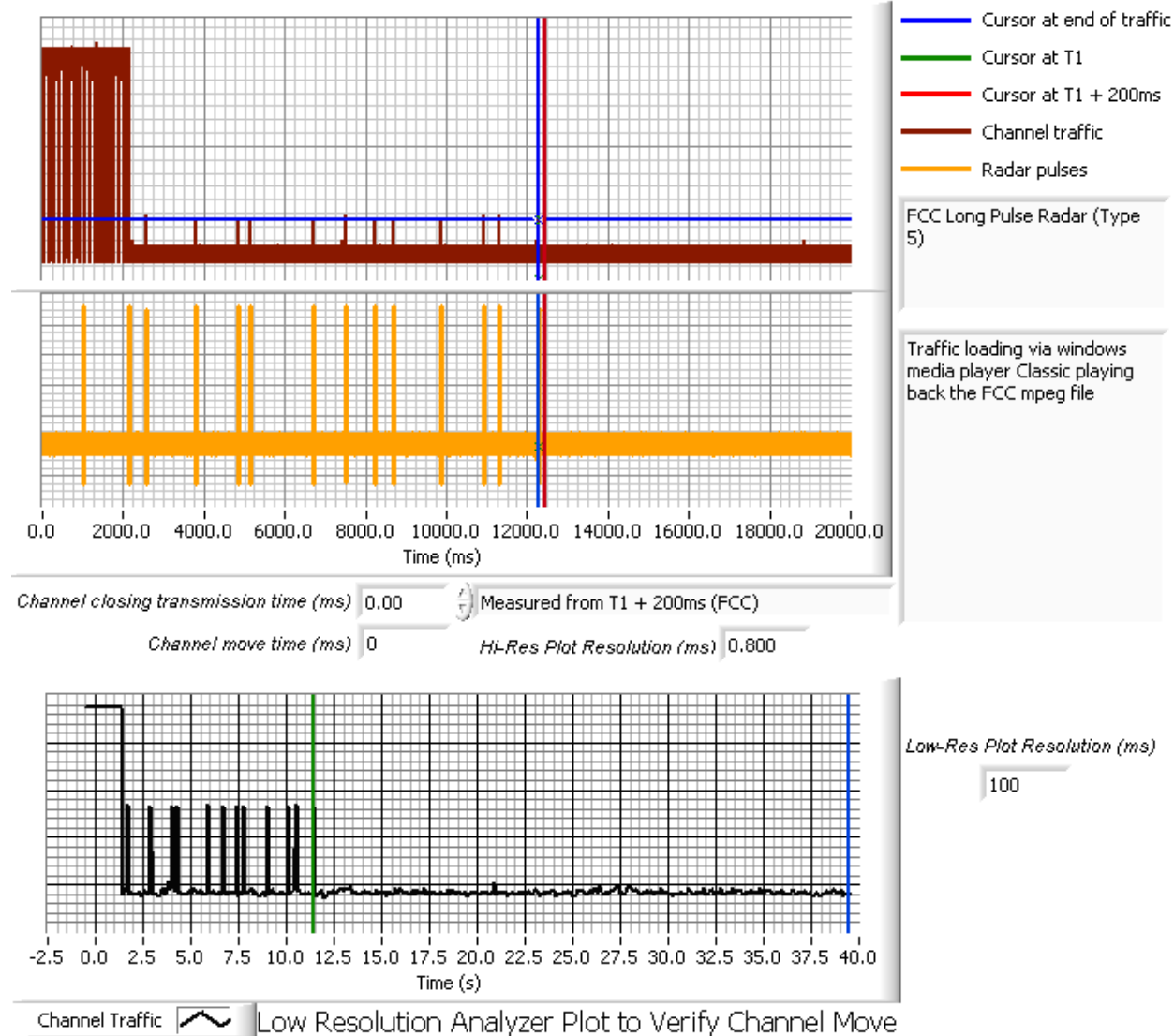
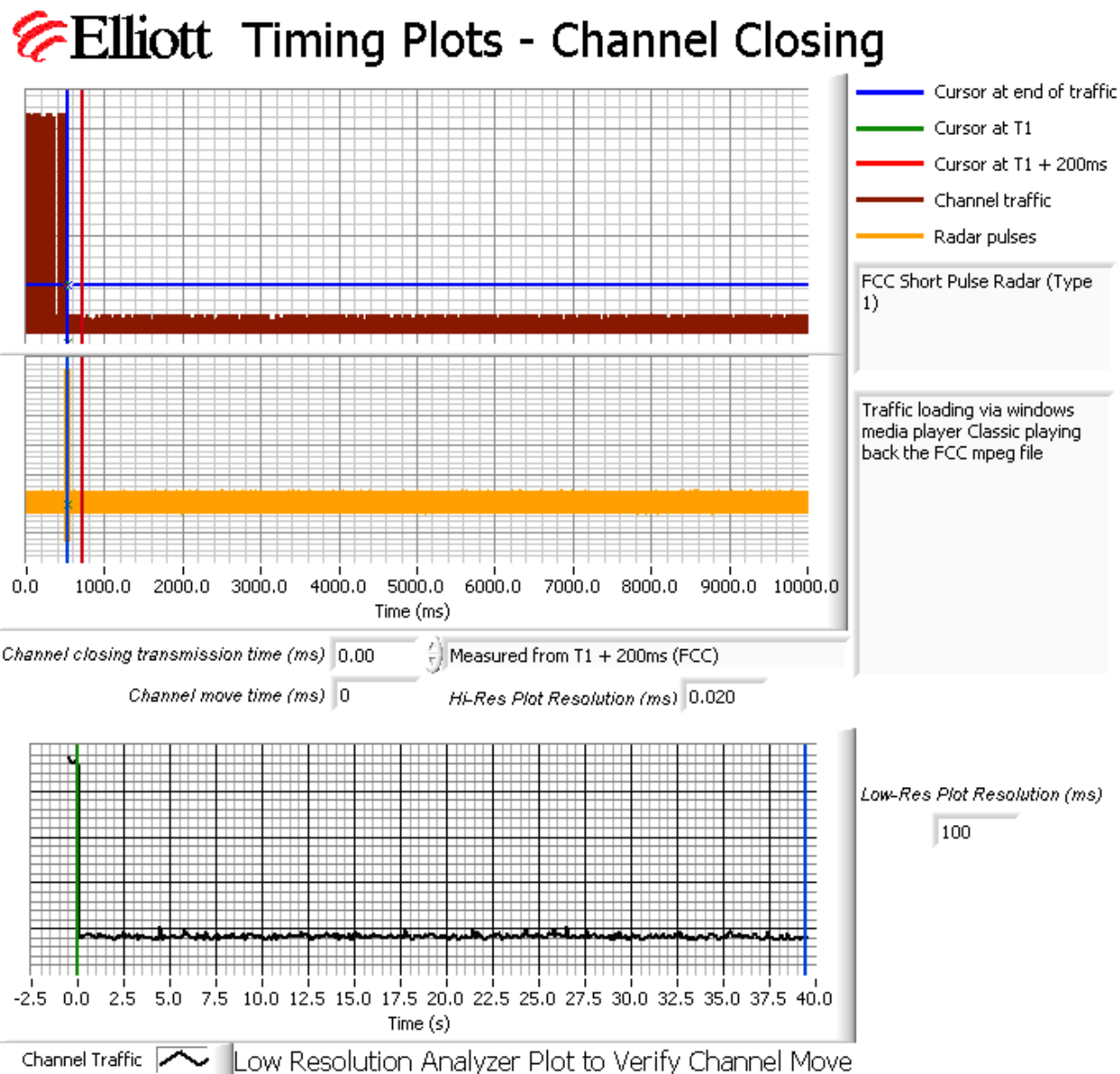


Figure 4 Channel closing timing with type 5 radar - 5200AP

After the final channel closing test the channel was monitored for a further 30 minutes. No transmissions occurred on the channel.

FCC PART 15 SUBPART E DATA – 5200SM

Waveform Type	Channel Closing Transmission Time ¹		Channel Move Time		Result
	Measured	Limit	Measured	Limit	
Radar Type 1	0	60 ms	0	10s	Passed

Table 43 FCC Part 15 Subpart E Channel Closing Test Results – 5200SM**Figure 5 Channel closing timing with type 1 radar – 5200SM**

After the final channel closing test the channel was monitored for a further 30 minutes. No transmissions occurred on the channel.

¹ 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.

Appendix D Test Data – Channel Availability Check

The first plot shows the start of transmissions approximately 68s after the start of the CAC (no radar applied during the CAC)

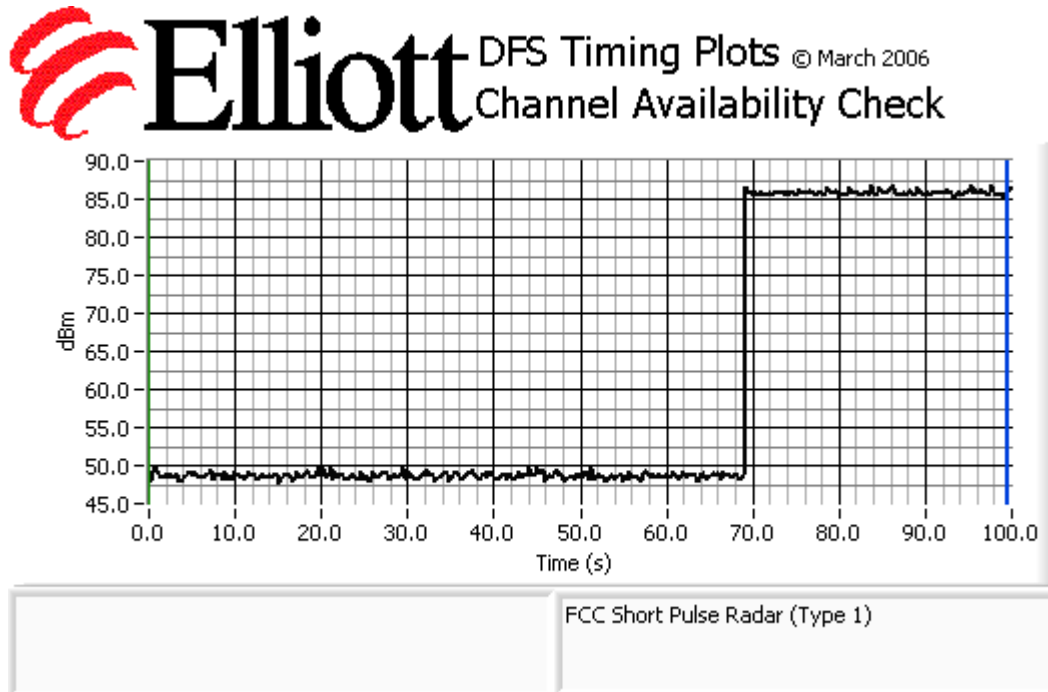


Figure 6 Plot of EUT Start-Up After CAC – 5200AP

The channel availability check (CAC) was made by applying radar type 1 during either the first 3 seconds or last 6 seconds of the CAC period.

The level of the radar signal applied was -57dBm which accounts for the 7 dBi antenna gain. Measurements were made at 5290 MHz.

The start of each plot is the same for each of the plots and is set to coincide with the start of the Channel Availability Check period.

The plots show that there were no transmissions on the channel 2.5 minutes 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.

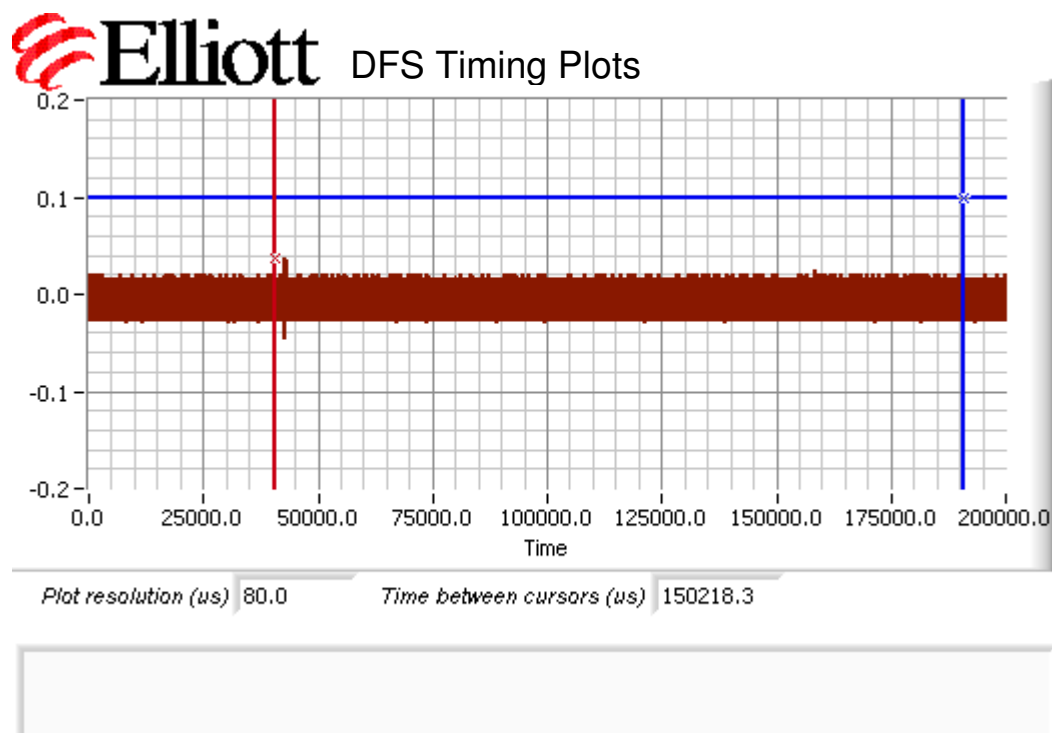
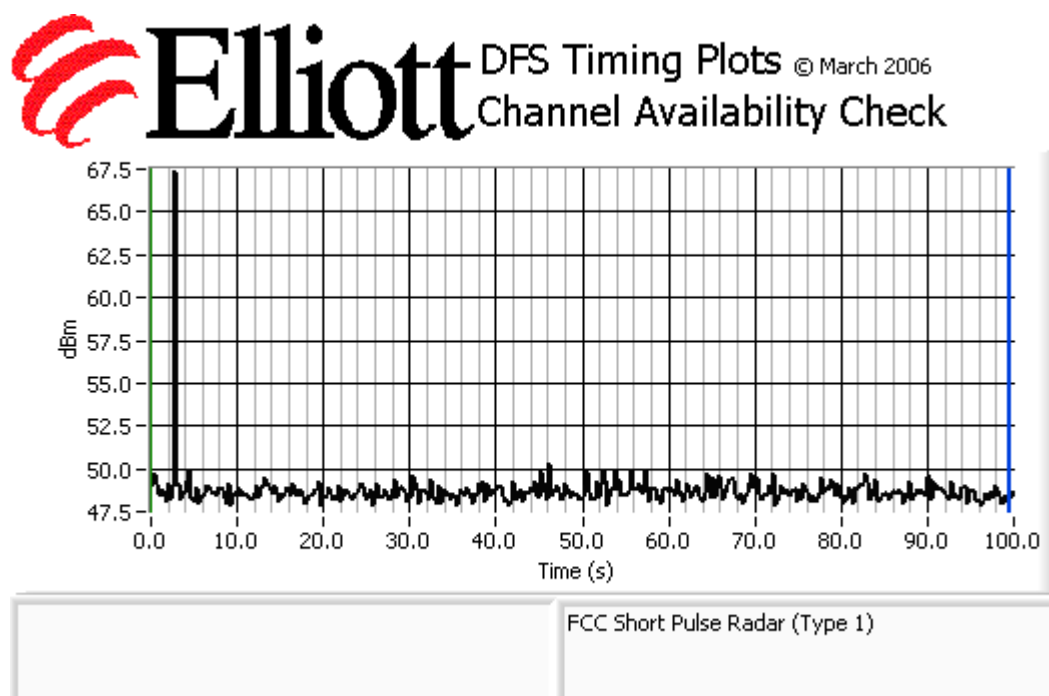


Figure 7 Plots of EUT transmissions with radar applied at start of CAC

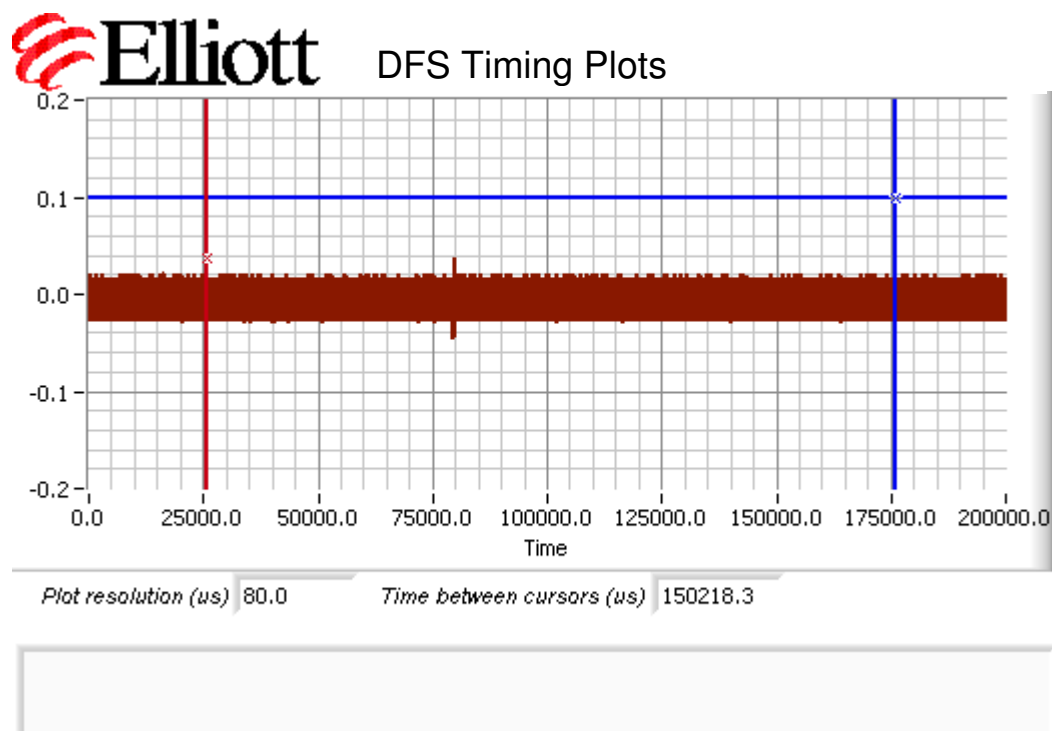
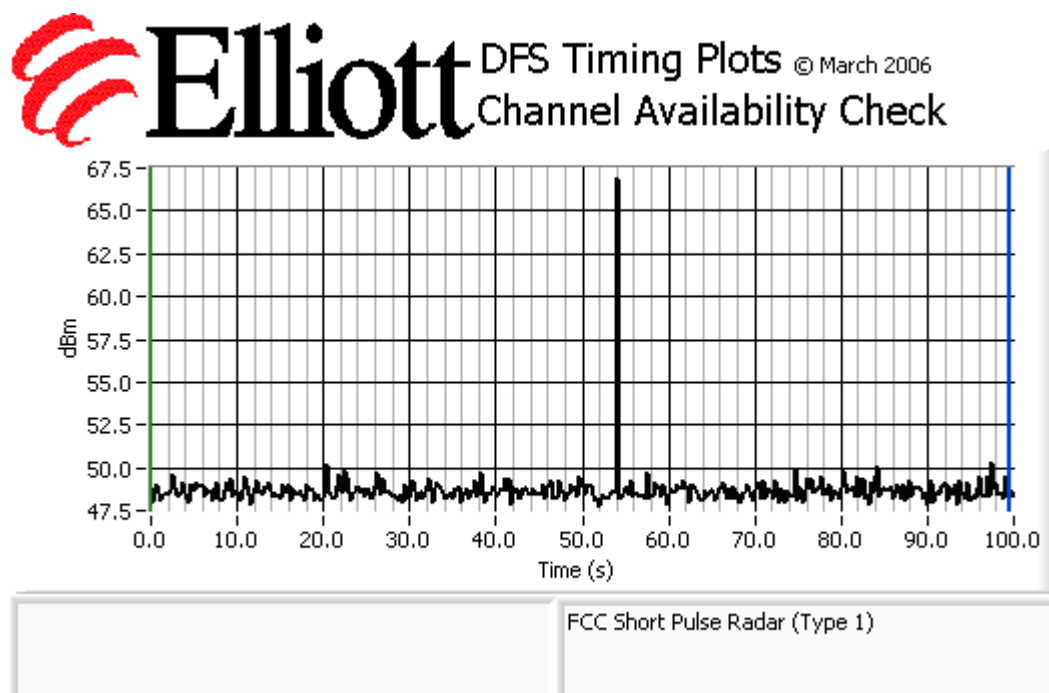


Figure 8 Plots of EUT transmissions with radar applied at end of CAC

Appendix E Antenna Specification

The antenna in the EUT is a custom patch antenna soldered to the feed point of the radio. The manufacturer declared that the gain of this antenna is 7dBi based on comparison with a known antenna.

Appendix F Test Configuration Photographs

