

TEST REPORT

DYNAMIC FREQUENCY SELECTION REQUIREMENTS

OF

FCC Part 15.407 Subpart E (UNII) & RSS-210 Issue 6

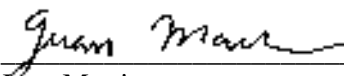
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SCOPE

The Federal Communications Commission, Industry Canada, and the European Telecommunications Standards Institute (ETSI) publish standards regarding ElectroMagnetic Compatibility and Radio spectrum Matters for radio-communications devices. Tests have been performed on the Redline Communications, Inc. model AN-80i in accordance with these standards.

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

- FCC Part 15.407 Subpart E Unlicensed National Information Infrastructure (U-NII) Devices
- RSS-210, Issue 6 (Low-power License-exempt Radiocommunication Devices)

Tests were performed in accordance with these standards together with the current published versions of the basic standards referenced therein as outlined in Elliott Laboratories test procedures.

The test results recorded herein are based on a single type test of the Redline Communications, Inc. model AN-80i and therefore apply only to the tested sample. The sample was selected and prepared by Medhat Fawzy of Redline Communications, Inc.

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 sample of Redline Communications, Inc. model AN-80i complied with the DFS requirements of:

FCC Part 15.407
RSS-210, Issue 6

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 Redline Communications, Inc. model AN-80i is a Point to Point wireless device that is use to provided internet and networking services.

The sample was received on November 1, 2006 and tested on November 1, 2006. The EUT consisted of the following component(s):

Manufacturer	Model	Description	Serial Number
Redline Communications, Inc.	AN-80i	Advance Broadband Wireless Transport Device	N/A
Mobile Mark Communications Antennas	ECO9-5500	9dBi Omni Antenna	N/A

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

Operating Modes

- Master Device
 Client Device
 Client Device with In-Service Monitoring

Antenna Gains / EIRP

	5470 – 5725 MHz
Lowest Antenna Gain (dBi)	9
Highest Antenna Gain (dBi)	22
Output Power (dBm)	7

- Power can exceed 200mW eirp

Channel Protocol

- IP Based
 Frame Based
 OTHER _____

ENCLOSURE

The EUT enclosure measures approximately 25cm W by 15cm D by 5cm H. It is primarily constructed of aluminum.

MODIFICATIONS

No modifications were made to the EUT in order to comply with the requirements of the standard(s) referenced in this report.

SUPPORT EQUIPMENT

The following equipment was used as local support equipment for testing:

Manufacturer	Model	Description	Serial Number	FCC ID
Mobile Mark Communications	ECO9-5500	9dBi antenna	-	-

EUT INTERFACE PORTS

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

Port	Connected To	Cable(s)		
		Description	Shielded or Unshielded	Length(m)
RF	9 dBi antenna	Coaxial	Shielded	.5
Ethernet	Laptop	Cat5	Unshielded	15

EUT OPERATION

The EUT was operating with the following software.

Master Device: RL80_F_0110_193

Client Device: RL80_F_0110_193

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

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

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

The streamed file was the "FCC" test file and the client device was using Windows Media Player Classic as required by FCC Part 15 Subpart E.

TEST RESULTS**TEST RESULTS SUMMARY – FCC Part 15 & RSS-210, MASTER AND CLIENT DEVICE (20 MHz)**

Description	Radar Type	Radar Frequency	Measured Value	Requirement	Test Data	Status
Channel Availability Check (CAC) Time	Type 1	5530 MHz	> 60s	≥ 60s	Appendix F	Pass
CAC Detection Threshold	Type 1	5530 MHz	-64dBm	-64dBm (see note 2)	Appendix F	Pass
In-Service Monitoring Detection Threshold	Type 1 Type 2 Type 3 Type 4 Type 5 Type 6	5530 MHz	-64 dBm -64 dBm -64 dBm -64 dBm -64 dBm -64 dBm	-64dBm (see note 2)	Appendix D	Pass
Channel closing transmission time	Type 1 Type 5	5530 MHz	ms 0ms	≤ 60ms	Appendix D	Pass
Channel move time	Type 1 Type 5	5530 MHz	s 0s	≤ 10s	Appendix D	Pass
Non-occupancy period	N/A	5530 MHz	> 30 mins	> 30 minutes	Appendix D	Pass
5600 – 5650 MHz CAC or In-service monitoring Radar detection	Type 1	5600 MHz	-	10 minutes	Note 1	Pass
UNII Detection Bandwidth	Type 1	5530 MHz	18 MHz (Master) 15MHz (Client)	Minimum 80% of the UNII 99% transmission power bandwidth.	Appendix E	Pass
Uniform Loading		-	-	Uniform Loading	Refer to operational description	Information provided by client
Transmit Power Control			<p>A) First one, is automatically enabled when DFS is enable and its purpose is to keep the transmit power at a level which generate an RSSI on the receiver side below the radar power threshold which have to be detected.</p> <p>B) The second one could be enabled or disabled by the user and it keeps the transmit power at the lowest level which give the best SNR on the receiver side.</p>			Information provided by client

Table 1 FCC Part 15 Subpart E & RSS-210 Master and Client Device Test Result Summary

Notes:

- 1) The 5600-5650 band is excluded from use using the unique license key for radios sold in Canada.

MEASUREMENT UNCERTAINTIES

ISO/IEC 17025 requires that an estimate of the uncertainties associated with the measurement(s) be included in the report for applicable standards. The measurement uncertainties given below are based on a 95% confidence level, with a coverage factor (k=2) and were calculated in accordance with the ISO Guide to the Expression of Uncertainty in Measurement.

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.

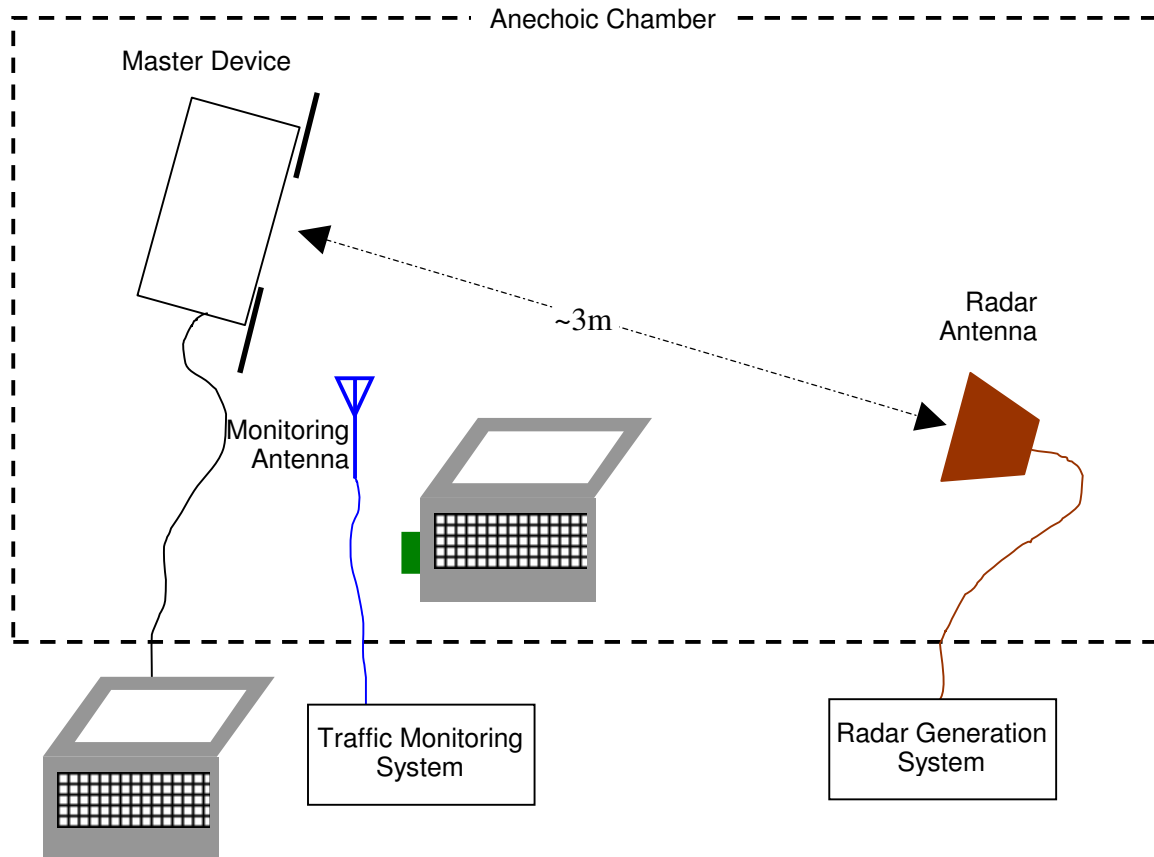


Figure 1 Test Configuration for radiated Measurement Method

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.

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 & RSS-210 – the total time of all individual transmissions from the EUT that are observed starting 200ms at the end of the last radar pulse in the waveform. This value is required to be less than 60ms.

DFS CHANNEL 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	78	05-Sep-07
Tektronix	1 GHz Oscilloscope	TDS5104	1435	26-Apr-08
EMCO	Antenna, Horn, 1-18 GHz	3117	1662	21-Mar-08
Agilent	Vector Signal Generator (250kHz - 20GHz)	E8267C	1877	23-Nov-07

Appendix B Test Data Tables for Radar Detection Probability FCC & RSS-210 (Master Device)**Table 2 - Summary of All Results (Master Device)**

Waveform Name	Success Rate	Number of Trials
FCC Short Pulse Radar (Type 1)	100.0 %	30
FCC Short Pulse Radar (Type 4)	96.7 %	30
FCC Short Pulse Radar (Type 2)	100.0 %	30
FCC Short Pulse Radar (Type 3)	96.7 %	30
FCC frequency hopping radar (Type 6)	97.4 %	38
Long Sequence	100.0 %	30

Table 3 - 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	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
1	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
2	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
3	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
4	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
5	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
6	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
7	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
8	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
9	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
10	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
11	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
12	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
13	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
14	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
15	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
16	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
17	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
18	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A

19	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
20	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
21	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
22	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
23	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
24	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
25	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
26	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
27	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
28	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
29	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A

Table 4 - 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	14	15.4	388.0	Yes	5530.0MHz, -64.0dBm	N/A
1	13	19.6	353.0	Yes	5530.0MHz, -64.0dBm	N/A
2	15	14.5	263.0	Yes	5530.0MHz, -64.0dBm	N/A
3	13	16.5	442.0	Yes	5530.0MHz, -64.0dBm	N/A
4	16	16.9	311.0	Yes	5530.0MHz, -64.0dBm	N/A
5	15	15.6	337.0	Yes	5530.0MHz, -64.0dBm	N/A
6	14	13.5	219.0	Yes	5530.0MHz, -64.0dBm	N/A
7	12	18.8	218.0	Yes	5530.0MHz, -64.0dBm	N/A
8	13	19.2	351.0	Yes	5530.0MHz, -64.0dBm	N/A
9	13	15.2	418.0	Yes	5530.0MHz, -64.0dBm	N/A
10	14	16.8	364.0	Yes	5530.0MHz, -64.0dBm	N/A
11	15	14.2	437.0	Yes	5530.0MHz, -64.0dBm	N/A
12	16	13.0	252.0	Yes	5530.0MHz, -64.0dBm	N/A
13	14	13.2	367.0	Yes	5530.0MHz, -64.0dBm	N/A
14	16	17.5	319.0	Yes	5530.0MHz, -64.0dBm	N/A

15	14	11.6	239.0	Yes	5530.0MHz, -64.0dBm	N/A
16	13	16.7	358.0	Yes	5530.0MHz, -64.0dBm	N/A
17	15	11.9	254.0	Yes	5530.0MHz, -64.0dBm	N/A
18	15	13.7	242.0	Yes	5530.0MHz, -64.0dBm	N/A
19	15	18.8	433.0	Yes	5530.0MHz, -64.0dBm	N/A
20	14	15.0	478.0	Yes	5530.0MHz, -64.0dBm	N/A
21	15	19.4	454.0	Yes	5530.0MHz, -64.0dBm	N/A
22	13	12.9	402.0	Yes	5530.0MHz, -64.0dBm	N/A
23	14	12.5	283.0	No	5530.0MHz, -64.0dBm	N/A
24	14	13.8	431.0	Yes	5530.0MHz, -64.0dBm	N/A
25	15	18.5	268.0	Yes	5530.0MHz, -64.0dBm	N/A
26	12	13.9	381.0	Yes	5530.0MHz, -64.0dBm	N/A
27	15	18.7	229.0	Yes	5530.0MHz, -64.0dBm	N/A
28	14	14.9	327.0	Yes	5530.0MHz, -64.0dBm	N/A
29	15	14.6	382.0	Yes	5530.0MHz, -64.0dBm	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	24	1.2	182.0	Yes	5530.0MHz, -64.0dBm	N/A
1	27	4.0	197.0	Yes	5530.0MHz, -64.0dBm	N/A
2	27	4.9	153.0	Yes	5530.0MHz, -64.0dBm	N/A
3	29	3.9	193.0	Yes	5530.0MHz, -64.0dBm	N/A
4	26	4.7	195.0	Yes	5530.0MHz, -64.0dBm	N/A
5	23	2.6	163.0	Yes	5530.0MHz, -64.0dBm	N/A
6	28	4.4	189.0	Yes	5530.0MHz, -64.0dBm	N/A
7	26	3.2	225.0	Yes	5530.0MHz, -64.0dBm	N/A
8	28	4.5	227.0	Yes	5530.0MHz, -64.0dBm	N/A
9	28	2.7	221.0	Yes	5530.0MHz, -64.0dBm	N/A
10	26	4.8	204.0	Yes	5530.0MHz, -64.0dBm	N/A

11	24	4.8	185.0	Yes	5530.0MHz, -64.0dBm	N/A
12	28	1.2	177.0	Yes	5530.0MHz, -64.0dBm	N/A
13	26	2.6	153.0	Yes	5530.0MHz, -64.0dBm	N/A
14	25	2.5	206.0	Yes	5530.0MHz, -64.0dBm	N/A
15	23	3.0	197.0	Yes	5530.0MHz, -64.0dBm	N/A
16	26	4.8	157.0	Yes	5530.0MHz, -64.0dBm	N/A
17	29	3.4	228.0	Yes	5530.0MHz, -64.0dBm	N/A
18	29	4.4	164.0	Yes	5530.0MHz, -64.0dBm	N/A
19	26	1.6	195.0	Yes	5530.0MHz, -64.0dBm	N/A
20	24	3.3	222.0	Yes	5530.0MHz, -64.0dBm	N/A
21	29	1.1	169.0	Yes	5530.0MHz, -64.0dBm	N/A
22	29	4.3	182.0	Yes	5530.0MHz, -64.0dBm	N/A
23	23	4.4	198.0	Yes	5530.0MHz, -64.0dBm	N/A
24	26	4.6	206.0	Yes	5530.0MHz, -64.0dBm	N/A
25	24	2.6	157.0	Yes	5530.0MHz, -64.0dBm	N/A
26	27	3.1	186.0	Yes	5530.0MHz, -64.0dBm	N/A
27	25	1.4	159.0	Yes	5530.0MHz, -64.0dBm	N/A
28	28	4.9	226.0	Yes	5530.0MHz, -64.0dBm	N/A
29	28	3.7	154.0	Yes	5530.0MHz, -64.0dBm	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	17	7.7	320.0	Yes	5530.0MHz, -64.0dBm	N/A
1	17	9.7	383.0	Yes	5530.0MHz, -64.0dBm	N/A
2	17	8.6	274.0	Yes	5530.0MHz, -64.0dBm	N/A
3	16	6.3	335.0	Yes	5530.0MHz, -64.0dBm	N/A
4	16	8.3	399.0	Yes	5530.0MHz, -64.0dBm	N/A
5	16	7.6	259.0	Yes	5530.0MHz, -64.0dBm	N/A
6	18	6.4	226.0	Yes	5530.0MHz, -64.0dBm	N/A
7	18	7.5	408.0	Yes	5530.0MHz, -64.0dBm	N/A
8	17	6.6	384.0	No	5530.0MHz, -64.0dBm	N/A
9	16	8.8	242.0	Yes	5530.0MHz, -64.0dBm	N/A
10	16	7.8	435.0	Yes	5530.0MHz, -64.0dBm	N/A
11	18	7.0	202.0	Yes	5530.0MHz, -64.0dBm	N/A
12	18	6.7	201.0	Yes	5530.0MHz, -64.0dBm	N/A
13	16	6.8	352.0	Yes	5530.0MHz, -64.0dBm	N/A
14	18	7.1	334.0	Yes	5530.0MHz, -64.0dBm	N/A
15	17	7.5	484.0	Yes	5530.0MHz, -64.0dBm	N/A
16	17	7.5	373.0	Yes	5530.0MHz, -64.0dBm	N/A
17	18	8.8	291.0	Yes	5530.0MHz, -64.0dBm	N/A
18	17	8.3	314.0	Yes	5530.0MHz, -64.0dBm	N/A
19	16	7.5	388.0	Yes	5530.0MHz, -64.0dBm	N/A
20	16	9.9	406.0	Yes	5530.0MHz, -64.0dBm	N/A
21	16	8.2	276.0	Yes	5530.0MHz, -64.0dBm	N/A
22	18	9.1	498.0	Yes	5530.0MHz, -64.0dBm	N/A
23	17	6.8	263.0	Yes	5530.0MHz, -64.0dBm	N/A
24	18	7.1	220.0	Yes	5530.0MHz, -64.0dBm	N/A
25	17	9.7	232.0	Yes	5530.0MHz, -64.0dBm	N/A

26	17	9.7	379.0	Yes	5530.0MHz, -64.0dBm	N/A
27	17	8.4	271.0	Yes	5530.0MHz, -64.0dBm	N/A
28	17	7.9	358.0	Yes	5530.0MHz, -64.0dBm	N/A
29	18	7.6	419.0	Yes	5530.0MHz, -64.0dBm	N/A

Table 7 - FCC frequency hopping radar (Type 6) 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	5521.0MHz, -64.0dBm	5338, 5572, 5640, 5521, 5258, 5687, 5692, 5581, 5411, 5652, 5645, 5449, 5427, 5463, 5708, 5281, 5408, 5697, 5425, 5316, 5641, 5322, 5711, 5516, 5367, 5403, 5677, 5358, 5439, 5405, 5695, 5444, 5384, 5326, 5515, 5615, 5507, 5488, 5626, 5480, 5479, 5631, 5561, 5674, 5320, 5482, 5473, 5505, 5327, 5451, 5310, 5531, 5700, 5705, 5486, 5295, 5434, 5298, 5648, 5404, 5256, 5665, 5592, 5470, 5312, 5294, 5537, 5670, 5429, 5564, 5597, 5440, 5526, 5389, 5506, 5646, 5712, 5343, 5719, 5251, 5276, 5707, 5335, 5478, 5336, 5552, 5503, 5420, 5575, 5578, 5628, 5391, 5606, 5602, 5664, 5368, 5432, 5356, 5460, 5696 (4 hits)
1	9	1.0	333.0	No	5522.0MHz, -64.0dBm	5395, 5457, 5551, 5444, 5438, 5431, 5315, 5349, 5282, 5660, 5409, 5451, 5351, 5381, 5652, 5564, 5326, 5292, 5343, 5489, 5375, 5640, 5325, 5283, 5449, 5597, 5461, 5581, 5672, 5422, 5488, 5638, 5471, 5543, 5696, 5380, 5436, 5350, 5674, 5653, 5688, 5550, 5429, 5654, 5276, 5355, 5642, 5459, 5703, 5556, 5602, 5514, 5354, 5704, 5623, 5285, 5586, 5507, 5509, 5361, 5639, 5364, 5560, 5310, 5312, 5252, 5624, 5400, 5644, 5524, 5267, 5511, 5303, 5655, 5322, 5573, 5493, 5718, 5568, 5578, 5401, 5320, 5329, 5366, 5323, 5417, 5472, 5686, 5630, 5668, 5496, 5370, 5280, 5440, 5455, 5426, 5447, 5582, 5557, 5469 (1 hits)
2	9	1.0	333.0	Yes	5523.0MHz, -64.0dBm	5583, 5419, 5448, 5584, 5421, 5585, 5476, 5519, 5559, 5432, 5418, 5449, 5342, 5296, 5710, 5371, 5329, 5579, 5399, 5661, 5634, 5291, 5420, 5427, 5576, 5724, 5680, 5450, 5722, 5491, 5328, 5488, 5263, 5642, 5562, 5372, 5720, 5650, 5314, 5443, 5620, 5485, 5678, 5685, 5543, 5716, 5705, 5700, 5301, 5626, 5613, 5633, 5516, 5492, 5412,

						5447, 5630, 5285, 5391, 5267, 5393, 5533, 5690, 5381, 5674, 5497, 5565, 5446, 5429, 5629, 5315, 5348, 5681, 5404, 5396, 5318, 5656, 5311, 5606, 5462, 5609, 5711, 5403, 5256, 5695, 5587, 5300, 5662, 5706, 5295, 5598, 5409, 5376, 5525, 5458, 5378, 5611, 5468, 5258, 5713 (2 hits)
3	9	1.0	333.0	Yes	5524.0MHz, -64.0dBm	5676, 5634, 5617, 5623, 5544, 5638, 5526, 5426, 5560, 5504, 5340, 5256, 5650, 5485, 5572, 5370, 5587, 5328, 5326, 5633, 5313, 5690, 5449, 5714, 5478, 5436, 5266, 5710, 5341, 5627, 5317, 5361, 5442, 5262, 5269, 5407, 5497, 5518, 5684, 5251, 5691, 5408, 5380, 5387, 5645, 5525, 5451, 5279, 5549, 5416, 5308, 5693, 5527, 5334, 5514, 5437, 5275, 5394, 5668, 5445, 5630, 5355, 5646, 5417, 5589, 5505, 5671, 5384, 5494, 5585, 5715, 5462, 5573, 5376, 5470, 5719, 5431, 5683, 5588, 5535, 5332, 5696, 5446, 5642, 5662, 5686, 5479, 5452, 5465, 5277, 5319, 5502, 5607, 5321, 5419, 5259, 5429, 5516, 5579, 5333 (4 hits)
4	9	1.0	333.0	Yes	5525.0MHz, -64.0dBm	5537, 5286, 5271, 5508, 5625, 5612, 5589, 5402, 5480, 5541, 5643, 5366, 5414, 5670, 5266, 5325, 5568, 5353, 5406, 5611, 5630, 5511, 5684, 5329, 5616, 5490, 5649, 5391, 5475, 5685, 5479, 5576, 5404, 5664, 5512, 5530, 5496, 5472, 5435, 5520, 5501, 5374, 5383, 5315, 5421, 5592, 5468, 5324, 5410, 5489, 5574, 5398, 5653, 5623, 5581, 5598, 5710, 5370, 5344, 5448, 5487, 5282, 5476, 5615, 5526, 5385, 5500, 5721, 5563, 5256, 5426, 5629, 5706, 5582, 5287, 5439, 5635, 5486, 5669, 5488, 5371, 5575, 5437, 5701, 5600, 5338, 5350, 5430, 5416, 5319, 5317, 5570, 5678, 5298, 5375, 5631, 5327, 5525, 5447, 5680 (4 hits)
5	9	1.0	333.0	Yes	5526.0MHz, -64.0dBm	5500, 5285, 5333, 5415, 5344, 5564, 5556, 5278, 5651, 5360, 5369, 5677, 5256, 5448, 5275, 5598, 5299, 5407, 5424, 5451, 5304, 5484, 5430, 5592, 5590, 5406, 5566, 5349, 5376, 5361, 5365, 5510, 5495, 5650, 5539,

						5343, 5257, 5284, 5459, 5615, 5422, 5712, 5457, 5440, 5705, 5486, 5320, 5426, 5664, 5701, 5391, 5371, 5687, 5678, 5268, 5550, 5578, 5675, 5264, 5295, 5362, 5655, 5367, 5499, 5375, 5370, 5537, 5331, 5575, 5384, 5401, 5402, 5262, 5530, 5468, 5684, 5526, 5544, 5444, 5253, 5724, 5493, 5314, 5312, 5379, 5351, 5515, 5504, 5479, 5660, 5449, 5672, 5480, 5718, 5581, 5450, 5473, 5648, 5674, 5694 (4 hits)
6	9	1.0	333.0	Yes	5527.0MHz, -64.0dBm	5370, 5630, 5394, 5714, 5379, 5638, 5488, 5568, 5482, 5517, 5389, 5669, 5437, 5406, 5261, 5684, 5504, 5325, 5615, 5506, 5345, 5704, 5358, 5477, 5598, 5645, 5441, 5497, 5613, 5277, 5513, 5658, 5305, 5547, 5690, 5560, 5520, 5397, 5600, 5401, 5444, 5580, 5561, 5592, 5633, 5553, 5509, 5429, 5641, 5337, 5268, 5490, 5391, 5521, 5616, 5491, 5529, 5657, 5383, 5278, 5583, 5631, 5683, 5448, 5485, 5614, 5516, 5691, 5556, 5586, 5489, 5294, 5442, 5338, 5470, 5412, 5493, 5579, 5365, 5392, 5629, 5388, 5524, 5603, 5667, 5453, 5413, 5386, 5414, 5310, 5696, 5677, 5717, 5464, 5457, 5256, 5654, 5308, 5301, 5530 (4 hits)
7	9	1.0	333.0	Yes	5528.0MHz, -64.0dBm	5414, 5297, 5283, 5336, 5319, 5591, 5394, 5673, 5582, 5613, 5279, 5549, 5290, 5557, 5704, 5515, 5325, 5671, 5628, 5316, 5386, 5469, 5274, 5409, 5323, 5408, 5255, 5261, 5589, 5259, 5666, 5647, 5695, 5618, 5330, 5430, 5602, 5457, 5529, 5519, 5345, 5363, 5610, 5506, 5477, 5344, 5558, 5689, 5288, 5629, 5496, 5631, 5357, 5281, 5295, 5609, 5567, 5298, 5596, 5599, 5564, 5711, 5614, 5436, 5652, 5655, 5528, 5687, 5594, 5612, 5326, 5660, 5270, 5327, 5276, 5680, 5379, 5697, 5533, 5299, 5535, 5595, 5540, 5347, 5360, 5371, 5503, 5718, 5667, 5425, 5257, 5635, 5539, 5375, 5719, 5651, 5266, 5716, 5676, 5265 (5 hits)
8	9	1.0	333.0	Yes	5529.0MHz, -64.0dBm	5382, 5663, 5572, 5681, 5308, 5267, 5317, 5601, 5399, 5614, 5432, 5512, 5482, 5390, 5445,

						5504, 5591, 5476, 5416, 5414, 5358, 5252, 5598, 5261, 5655, 5400, 5581, 5666, 5398, 5725, 5621, 5563, 5538, 5564, 5485, 5322, 5668, 5632, 5535, 5346, 5636, 5429, 5413, 5709, 5469, 5640, 5605, 5486, 5520, 5544, 5265, 5285, 5363, 5336, 5633, 5357, 5541, 5553, 5647, 5289, 5539, 5701, 5562, 5651, 5441, 5599, 5474, 5658, 5627, 5536, 5567, 5611, 5643, 5674, 5638, 5457, 5313, 5711, 5258, 5281, 5458, 5467, 5637, 5631, 5589, 5570, 5722, 5698, 5354, 5405, 5584, 5679, 5263, 5428, 5377, 5337, 5687, 5496, 5276, 5559 (4 hits)
9	9	1.0	333.0	Yes	5530.0MHz, -64.0dBm	5583, 5457, 5696, 5406, 5560, 5661, 5703, 5539, 5575, 5522, 5310, 5669, 5313, 5620, 5713, 5516, 5440, 5602, 5665, 5689, 5481, 5675, 5640, 5453, 5578, 5722, 5326, 5372, 5523, 5317, 5471, 5595, 5432, 5275, 5716, 5572, 5693, 5698, 5374, 5435, 5384, 5428, 5444, 5272, 5663, 5593, 5351, 5409, 5715, 5321, 5584, 5307, 5360, 5641, 5445, 5682, 5322, 5576, 5548, 5438, 5498, 5415, 5562, 5460, 5298, 5358, 5265, 5461, 5518, 5541, 5433, 5678, 5534, 5492, 5608, 5725, 5473, 5710, 5373, 5436, 5266, 5340, 5256, 5341, 5650, 5455, 5469, 5494, 5437, 5400, 5369, 5465, 5587, 5414, 5381, 5660, 5565, 5521, 5314, 5606 (5 hits)
10	9	1.0	333.0	Yes	5531.0MHz, -64.0dBm	5721, 5453, 5593, 5380, 5261, 5626, 5481, 5399, 5412, 5443, 5709, 5526, 5256, 5717, 5525, 5701, 5643, 5672, 5435, 5393, 5472, 5300, 5613, 5341, 5591, 5522, 5587, 5441, 5575, 5251, 5271, 5289, 5568, 5333, 5411, 5546, 5397, 5534, 5366, 5277, 5275, 5452, 5608, 5464, 5545, 5539, 5718, 5424, 5685, 5601, 5470, 5576, 5573, 5253, 5286, 5569, 5631, 5488, 5398, 5469, 5558, 5510, 5303, 5471, 5634, 5317, 5670, 5388, 5338, 5378, 5373, 5661, 5559, 5542, 5288, 5586, 5614, 5653, 5263, 5508, 5605, 5409, 5451, 5260, 5305, 5390, 5354, 5650, 5617, 5446, 5282, 5357, 5618, 5361, 5571, 5711, 5628, 5262, 5356, 5360 (5 hits)

						hits)
11	9	1.0	333.0	Yes	5532.0MHz, -64.0dBm	5509, 5326, 5605, 5347, 5594, 5576, 5404, 5432, 5704, 5392, 5425, 5256, 5489, 5705, 5477, 5522, 5664, 5535, 5307, 5552, 5345, 5381, 5692, 5454, 5514, 5428, 5267, 5699, 5613, 5482, 5681, 5603, 5679, 5524, 5463, 5526, 5399, 5452, 5645, 5503, 5355, 5442, 5417, 5398, 5684, 5269, 5406, 5350, 5388, 5426, 5620, 5338, 5694, 5440, 5393, 5400, 5299, 5300, 5302, 5606, 5289, 5697, 5304, 5464, 5496, 5521, 5478, 5589, 5278, 5378, 5544, 5556, 5376, 5721, 5291, 5309, 5254, 5323, 5294, 5627, 5493, 5255, 5628, 5597, 5290, 5669, 5513, 5438, 5510, 5640, 5559, 5436, 5351, 5598, 5395, 5416, 5519, 5706, 5558, 5720 (5 hits)
12	9	1.0	333.0	Yes	5533.0MHz, -64.0dBm	5358, 5571, 5516, 5353, 5364, 5331, 5368, 5297, 5484, 5518, 5256, 5343, 5286, 5387, 5546, 5429, 5559, 5306, 5657, 5403, 5575, 5411, 5444, 5652, 5339, 5262, 5372, 5419, 5271, 5667, 5501, 5643, 5506, 5428, 5474, 5511, 5488, 5718, 5630, 5367, 5587, 5318, 5255, 5315, 5393, 5566, 5609, 5459, 5265, 5408, 5541, 5470, 5413, 5405, 5335, 5320, 5362, 5703, 5307, 5455, 5263, 5639, 5491, 5678, 5629, 5416, 5584, 5567, 5399, 5275, 5562, 5338, 5610, 5434, 5638, 5337, 5619, 5613, 5453, 5490, 5356, 5583, 5573, 5661, 5713, 5549, 5427, 5465, 5472, 5670, 5665, 5635, 5641, 5598, 5461, 5334, 5251, 5394, 5658, 5530 (1 hits)
13	9	1.0	333.0	Yes	5534.0MHz, -64.0dBm	5721, 5529, 5324, 5350, 5413, 5570, 5544, 5623, 5345, 5521, 5380, 5606, 5296, 5384, 5373, 5448, 5319, 5404, 5260, 5466, 5271, 5494, 5575, 5508, 5434, 5376, 5363, 5257, 5481, 5566, 5531, 5328, 5387, 5525, 5688, 5562, 5379, 5588, 5648, 5573, 5637, 5333, 5473, 5461, 5605, 5662, 5396, 5571, 5590, 5533, 5432, 5317, 5427, 5349, 5507, 5537, 5564, 5499, 5365, 5469, 5368, 5266, 5639, 5567, 5668, 5400, 5667, 5642, 5560, 5285, 5488, 5500, 5353, 5651, 5301, 5428, 5621, 5505, 5677, 5513,

						5682, 5674, 5576, 5707, 5366, 5408, 5492, 5362, 5258, 5490, 5295, 5530, 5680, 5273, 5678, 5358, 5364, 5394, 5361, 5302 (7 hits)
14	9	1.0	333.0	Yes	5535.0MHz, -64.0dBm	5450, 5463, 5605, 5481, 5516, 5252, 5418, 5529, 5597, 5456, 5505, 5349, 5705, 5611, 5462, 5580, 5517, 5655, 5707, 5438, 5645, 5386, 5637, 5317, 5522, 5508, 5471, 5566, 5663, 5292, 5703, 5324, 5338, 5608, 5654, 5446, 5667, 5367, 5631, 5390, 5263, 5612, 5494, 5561, 5492, 5563, 5451, 5694, 5636, 5344, 5396, 5431, 5366, 5340, 5519, 5593, 5534, 5356, 5544, 5447, 5564, 5715, 5371, 5437, 5333, 5498, 5332, 5591, 5261, 5318, 5493, 5581, 5314, 5439, 5483, 5336, 5264, 5584, 5478, 5293, 5570, 5307, 5405, 5291, 5313, 5393, 5689, 5722, 5426, 5700, 5490, 5387, 5270, 5485, 5576, 5266, 5677, 5510, 5676, 5720 (3 hits)
15	9	1.0	333.0	Yes	5536.0MHz, -64.0dBm	5496, 5724, 5412, 5710, 5711, 5323, 5394, 5498, 5601, 5479, 5669, 5543, 5631, 5413, 5298, 5469, 5575, 5327, 5602, 5700, 5586, 5500, 5472, 5704, 5442, 5252, 5358, 5368, 5686, 5261, 5273, 5548, 5570, 5330, 5420, 5402, 5418, 5662, 5350, 5316, 5625, 5445, 5592, 5286, 5595, 5359, 5511, 5515, 5385, 5325, 5285, 5355, 5320, 5284, 5590, 5447, 5682, 5550, 5388, 5659, 5657, 5671, 5474, 5677, 5277, 5699, 5537, 5409, 5581, 5334, 5357, 5341, 5452, 5545, 5331, 5491, 5666, 5393, 5335, 5372, 5292, 5540, 5290, 5382, 5541, 5276, 5260, 5478, 5648, 5716, 5458, 5551, 5488, 5343, 5300, 5340, 5519, 5403, 5297, 5653 (1 hits)
16	9	1.0	333.0	Yes	5537.0MHz, -64.0dBm	5453, 5398, 5289, 5283, 5571, 5259, 5318, 5704, 5378, 5697, 5306, 5632, 5604, 5521, 5546, 5517, 5533, 5441, 5528, 5374, 5518, 5454, 5711, 5520, 5435, 5407, 5385, 5303, 5716, 5556, 5448, 5363, 5713, 5720, 5370, 5583, 5550, 5529, 5444, 5319, 5341, 5589, 5299, 5450, 5326, 5469, 5633, 5662, 5575, 5639, 5691, 5537, 5695, 5387, 5671, 5392, 5541, 5580, 5668, 5404,

						5687, 5254, 5388, 5718, 5527, 5686, 5679, 5574, 5256, 5565, 5496, 5308, 5593, 5682, 5675, 5599, 5396, 5509, 5287, 5260, 5489, 5336, 5427, 5255, 5659, 5292, 5403, 5486, 5661, 5693, 5684, 5543, 5270, 5386, 5340, 5349, 5542, 5576, 5487, 5367 (6 hits)
17	9	1.0	333.0	Yes	5538.0MHz, -64.0dBm	5539, 5317, 5695, 5571, 5308, 5370, 5406, 5411, 5666, 5663, 5426, 5523, 5645, 5289, 5520, 5286, 5586, 5516, 5415, 5297, 5505, 5721, 5692, 5428, 5454, 5502, 5470, 5712, 5519, 5272, 5656, 5628, 5529, 5677, 5429, 5688, 5683, 5438, 5537, 5561, 5345, 5679, 5400, 5452, 5694, 5383, 5649, 5500, 5490, 5338, 5321, 5377, 5448, 5496, 5578, 5350, 5456, 5396, 5434, 5252, 5480, 5298, 5581, 5613, 5399, 5390, 5435, 5327, 5563, 5395, 5526, 5643, 5281, 5347, 5515, 5398, 5555, 5342, 5574, 5540, 5375, 5626, 5698, 5397, 5381, 5570, 5593, 5612, 5258, 5689, 5478, 5364, 5467, 5647, 5310, 5703, 5422, 5629, 5544, 5329 (5 hits)
18	9	1.0	333.0	Yes	5539.0MHz, -64.0dBm	5606, 5607, 5451, 5437, 5267, 5522, 5302, 5438, 5368, 5363, 5653, 5272, 5337, 5486, 5545, 5464, 5442, 5282, 5252, 5555, 5370, 5647, 5703, 5519, 5515, 5597, 5501, 5504, 5583, 5719, 5257, 5692, 5417, 5301, 5460, 5462, 5258, 5490, 5308, 5439, 5533, 5447, 5580, 5323, 5722, 5409, 5564, 5705, 5724, 5567, 5508, 5617, 5521, 5410, 5354, 5645, 5427, 5478, 5662, 5415, 5556, 5275, 5357, 5374, 5518, 5443, 5541, 5627, 5382, 5376, 5346, 5581, 5476, 5307, 5274, 5253, 5369, 5524, 5413, 5277, 5683, 5388, 5509, 5572, 5428, 5289, 5319, 5349, 5333, 5278, 5578, 5675, 5280, 5570, 5457, 5343, 5525, 5718, 5701, 5677 (5 hits)
19	9	1.0	333.0	Yes	5521.0MHz, -64.0dBm	5579, 5372, 5619, 5491, 5535, 5645, 5405, 5274, 5387, 5469, 5388, 5415, 5273, 5680, 5346, 5722, 5335, 5462, 5353, 5350, 5308, 5464, 5446, 5307, 5411, 5655, 5445, 5282, 5303, 5359, 5613, 5463, 5707, 5279, 5497, 5540, 5410, 5263, 5268, 5632,

						5448, 5709, 5336, 5524, 5641, 5711, 5343, 5407, 5393, 5312, 5608, 5460, 5275, 5567, 5369, 5583, 5704, 5426, 5283, 5627, 5670, 5664, 5674, 5409, 5412, 5360, 5252, 5294, 5717, 5654, 5691, 5424, 5591, 5368, 5356, 5453, 5310, 5421, 5714, 5606, 5563, 5689, 5639, 5357, 5384, 5325, 5293, 5338, 5561, 5276, 5355, 5306, 5418, 5647, 5708, 5692, 5592, 5278, 5344, 5486 (2 hits)
20	9	1.0	333.0	Yes	5522.0MHz, -64.0dBm	5385, 5560, 5473, 5579, 5261, 5334, 5554, 5439, 5433, 5629, 5294, 5303, 5421, 5552, 5659, 5453, 5588, 5259, 5496, 5711, 5458, 5562, 5341, 5293, 5483, 5364, 5545, 5574, 5368, 5528, 5437, 5715, 5634, 5300, 5691, 5283, 5671, 5292, 5598, 5698, 5627, 5701, 5648, 5547, 5619, 5555, 5681, 5335, 5389, 5347, 5447, 5461, 5525, 5531, 5478, 5318, 5380, 5398, 5518, 5330, 5690, 5302, 5685, 5676, 5543, 5315, 5322, 5495, 5587, 5355, 5460, 5349, 5696, 5590, 5663, 5480, 5592, 5490, 5252, 5435, 5683, 5340, 5673, 5529, 5295, 5351, 5687, 5499, 5393, 5645, 5328, 5551, 5412, 5253, 5397, 5459, 5375, 5542, 5680, 5521 (5 hits)
21	9	1.0	333.0	Yes	5523.0MHz, -64.0dBm	5612, 5501, 5519, 5488, 5462, 5418, 5683, 5512, 5366, 5606, 5599, 5479, 5643, 5689, 5552, 5558, 5637, 5451, 5676, 5650, 5404, 5690, 5651, 5717, 5285, 5405, 5424, 5314, 5696, 5659, 5287, 5414, 5412, 5664, 5669, 5515, 5301, 5457, 5476, 5276, 5330, 5449, 5289, 5644, 5619, 5442, 5603, 5332, 5362, 5406, 5520, 5675, 5399, 5563, 5416, 5417, 5434, 5518, 5360, 5718, 5707, 5535, 5541, 5293, 5410, 5579, 5646, 5322, 5461, 5494, 5627, 5498, 5620, 5306, 5526, 5492, 5568, 5345, 5583, 5305, 5513, 5640, 5542, 5716, 5482, 5350, 5534, 5351, 5377, 5550, 5567, 5554, 5373, 5533, 5570, 5280, 5342, 5458, 5445, 5569 (4 hits)
22	9	1.0	333.0	Yes	5524.0MHz, -64.0dBm	5554, 5366, 5511, 5626, 5312, 5668, 5280, 5253, 5456, 5665, 5496, 5547, 5326, 5628, 5458, 5358, 5552, 5324, 5588, 5277,

						5378, 5521, 5483, 5296, 5388, 5512, 5495, 5537, 5403, 5499, 5427, 5664, 5551, 5501, 5419, 5359, 5361, 5669, 5645, 5714, 5542, 5713, 5368, 5476, 5560, 5339, 5523, 5317, 5605, 5655, 5487, 5519, 5510, 5497, 5508, 5513, 5532, 5715, 5578, 5341, 5428, 5472, 5424, 5276, 5567, 5466, 5515, 5313, 5328, 5363, 5724, 5330, 5527, 5422, 5579, 5556, 5346, 5608, 5672, 5716, 5464, 5474, 5670, 5461, 5336, 5370, 5302, 5407, 5520, 5384, 5614, 5650, 5529, 5402, 5580, 5525, 5557, 5379, 5604, 5392 (7 hits)
23	9	1.0	333.0	Yes	5525.0MHz, -64.0dBm	5537, 5370, 5305, 5303, 5266, 5614, 5719, 5485, 5454, 5606, 5542, 5391, 5464, 5692, 5398, 5451, 5434, 5294, 5654, 5404, 5502, 5708, 5260, 5302, 5538, 5353, 5506, 5569, 5438, 5643, 5616, 5341, 5661, 5667, 5662, 5685, 5461, 5706, 5594, 5718, 5449, 5275, 5720, 5334, 5356, 5251, 5599, 5259, 5288, 5285, 5314, 5555, 5710, 5431, 5543, 5503, 5423, 5278, 5380, 5424, 5368, 5505, 5672, 5308, 5593, 5433, 5442, 5495, 5427, 5277, 5455, 5291, 5369, 5644, 5318, 5365, 5430, 5336, 5265, 5630, 5309, 5666, 5698, 5627, 5325, 5456, 5349, 5591, 5257, 5279, 5636, 5558, 5507, 5381, 5714, 5414, 5705, 5441, 5375, 5520 (2 hits)
24	9	1.0	333.0	Yes	5526.0MHz, -64.0dBm	5498, 5421, 5372, 5563, 5447, 5572, 5522, 5469, 5252, 5510, 5594, 5382, 5568, 5312, 5422, 5259, 5277, 5695, 5637, 5268, 5716, 5596, 5307, 5431, 5722, 5384, 5485, 5654, 5412, 5342, 5359, 5419, 5642, 5542, 5253, 5564, 5486, 5326, 5270, 5337, 5311, 5327, 5579, 5525, 5574, 5271, 5633, 5567, 5492, 5636, 5398, 5517, 5598, 5548, 5518, 5464, 5260, 5437, 5644, 5376, 5313, 5503, 5339, 5535, 5362, 5499, 5515, 5545, 5330, 5255, 5714, 5283, 5402, 5604, 5578, 5264, 5593, 5618, 5367, 5263, 5429, 5661, 5665, 5254, 5416, 5705, 5394, 5332, 5694, 5333, 5363, 5408, 5699, 5323, 5257, 5392, 5354, 5669, 5269, 5453 (3 hits)

25	9	1.0	333.0	Yes	5527.0MHz, -64.0dBm	5435, 5505, 5686, 5693, 5445, 5723, 5410, 5712, 5551, 5313, 5388, 5400, 5631, 5363, 5357, 5462, 5559, 5500, 5476, 5492, 5280, 5607, 5581, 5375, 5391, 5675, 5258, 5277, 5611, 5438, 5340, 5534, 5285, 5502, 5416, 5691, 5490, 5455, 5616, 5504, 5586, 5376, 5636, 5580, 5553, 5699, 5254, 5612, 5590, 5698, 5605, 5437, 5312, 5491, 5572, 5448, 5434, 5418, 5708, 5493, 5482, 5299, 5402, 5570, 5405, 5288, 5358, 5346, 5421, 5602, 5594, 5471, 5433, 5274, 5672, 5645, 5374, 5424, 5555, 5415, 5656, 5619, 5465, 5250, 5390, 5526, 5641, 5307, 5524, 5530, 5625, 5265, 5716, 5564, 5359, 5533, 5366, 5689, 5532, 5257 (6 hits)
26	9	1.0	333.0	Yes	5528.0MHz, -64.0dBm	5474, 5662, 5549, 5719, 5319, 5437, 5648, 5567, 5311, 5682, 5606, 5581, 5258, 5657, 5270, 5286, 5257, 5365, 5554, 5364, 5442, 5389, 5696, 5293, 5301, 5356, 5400, 5363, 5528, 5448, 5306, 5450, 5631, 5623, 5339, 5454, 5507, 5588, 5349, 5516, 5594, 5658, 5417, 5491, 5325, 5622, 5376, 5403, 5455, 5593, 5646, 5429, 5360, 5432, 5463, 5441, 5551, 5390, 5610, 5332, 5585, 5279, 5722, 5546, 5656, 5277, 5504, 5665, 5586, 5361, 5386, 5353, 5497, 5500, 5433, 5502, 5613, 5436, 5394, 5472, 5415, 5616, 5583, 5435, 5535, 5393, 5373, 5650, 5341, 5352, 5272, 5496, 5559, 5609, 5418, 5637, 5296, 5590, 5452, 5447 (2 hits)
27	9	1.0	333.0	Yes	5529.0MHz, -64.0dBm	5544, 5709, 5567, 5569, 5453, 5253, 5442, 5382, 5553, 5546, 5566, 5287, 5528, 5416, 5386, 5273, 5303, 5341, 5526, 5391, 5631, 5276, 5461, 5350, 5252, 5402, 5305, 5325, 5620, 5476, 5431, 5462, 5409, 5675, 5285, 5337, 5615, 5315, 5507, 5505, 5721, 5267, 5717, 5477, 5440, 5353, 5394, 5571, 5677, 5722, 5667, 5591, 5509, 5532, 5654, 5320, 5609, 5650, 5481, 5530, 5304, 5419, 5715, 5465, 5515, 5585, 5441, 5547, 5543, 5418, 5684, 5688, 5464, 5480, 5427, 5549, 5652, 5551, 5694, 5308, 5663, 5384, 5354, 5724, 5263,

						5340, 5665, 5599, 5264, 5423, 5600, 5425, 5392, 5594, 5575, 5701, 5714, 5262, 5607, 5519 (4 hits)
28	9	1.0	333.0	Yes	5530.0MHz, -64.0dBm	5356, 5719, 5440, 5635, 5267, 5663, 5629, 5401, 5537, 5593, 5605, 5609, 5595, 5368, 5461, 5561, 5486, 5502, 5660, 5376, 5557, 5572, 5509, 5297, 5404, 5366, 5580, 5325, 5391, 5631, 5310, 5384, 5283, 5344, 5540, 5279, 5581, 5653, 5250, 5496, 5432, 5441, 5473, 5429, 5458, 5340, 5508, 5579, 5435, 5275, 5254, 5252, 5621, 5666, 5590, 5677, 5640, 5515, 5562, 5280, 5450, 5483, 5578, 5318, 5396, 5626, 5453, 5272, 5424, 5477, 5423, 5716, 5455, 5341, 5512, 5433, 5446, 5491, 5659, 5479, 5699, 5565, 5257, 5284, 5672, 5282, 5650, 5723, 5482, 5658, 5386, 5627, 5352, 5372, 5362, 5311, 5622, 5370, 5345, 5535 (2 hits)
29	9	1.0	333.0	Yes	5531.0MHz, -64.0dBm	5656, 5504, 5405, 5545, 5509, 5403, 5338, 5492, 5717, 5705, 5719, 5446, 5304, 5645, 5585, 5371, 5345, 5411, 5577, 5404, 5474, 5639, 5568, 5724, 5414, 5710, 5711, 5630, 5669, 5694, 5650, 5401, 5399, 5286, 5673, 5522, 5525, 5392, 5426, 5419, 5679, 5632, 5607, 5499, 5433, 5557, 5640, 5502, 5495, 5687, 5610, 5637, 5437, 5418, 5297, 5696, 5328, 5699, 5427, 5549, 5283, 5458, 5708, 5592, 5720, 5533, 5332, 5539, 5581, 5668, 5584, 5293, 5288, 5604, 5323, 5360, 5471, 5480, 5381, 5470, 5475, 5507, 5313, 5334, 5321, 5540, 5365, 5266, 5579, 5384, 5382, 5631, 5534, 5691, 5548, 5531, 5634, 5370, 5326, 5335 (6 hits)
30	9	1.0	333.0	Yes	5532.0MHz, -64.0dBm	5659, 5416, 5421, 5586, 5403, 5445, 5565, 5520, 5572, 5422, 5617, 5330, 5304, 5312, 5573, 5402, 5268, 5428, 5618, 5641, 5269, 5685, 5526, 5720, 5543, 5705, 5400, 5326, 5262, 5615, 5379, 5629, 5318, 5383, 5413, 5373, 5609, 5497, 5581, 5370, 5455, 5264, 5332, 5683, 5554, 5664, 5718, 5398, 5552, 5368, 5344, 5695, 5551, 5329, 5393, 5299, 5273, 5538, 5671, 5328, 5468, 5350, 5488, 5721, 5510,

						5624, 5470, 5294, 5484, 5709, 5426, 5409, 5451, 5254, 5279, 5361, 5363, 5696, 5390, 5260, 5698, 5650, 5380, 5539, 5251, 5355, 5342, 5534, 5499, 5527, 5506, 5593, 5606, 5321, 5281, 5381, 5622, 5588, 5270, 5287 (5 hits)
31	9	1.0	333.0	Yes	5533.0MHz, -64.0dBm	5438, 5358, 5275, 5539, 5502, 5340, 5394, 5606, 5350, 5564, 5670, 5707, 5478, 5378, 5320, 5386, 5384, 5301, 5634, 5306, 5361, 5395, 5446, 5373, 5297, 5496, 5700, 5535, 5694, 5427, 5674, 5633, 5347, 5469, 5563, 5527, 5648, 5688, 5417, 5493, 5588, 5701, 5273, 5516, 5393, 5591, 5659, 5330, 5313, 5702, 5492, 5494, 5642, 5263, 5294, 5363, 5452, 5355, 5266, 5545, 5651, 5537, 5578, 5650, 5465, 5322, 5717, 5278, 5684, 5274, 5487, 5405, 5416, 5531, 5305, 5649, 5368, 5587, 5685, 5647, 5605, 5517, 5562, 5511, 5715, 5498, 5327, 5420, 5526, 5593, 5524, 5324, 5270, 5473, 5600, 5639, 5314, 5532, 5569, 5376 (8 hits)
32	9	1.0	333.0	Yes	5534.0MHz, -64.0dBm	5614, 5674, 5332, 5560, 5320, 5476, 5629, 5442, 5356, 5339, 5302, 5312, 5721, 5462, 5490, 5364, 5423, 5450, 5497, 5653, 5520, 5682, 5425, 5698, 5650, 5323, 5474, 5352, 5543, 5714, 5387, 5632, 5719, 5541, 5342, 5585, 5539, 5251, 5306, 5314, 5479, 5279, 5708, 5498, 5388, 5509, 5663, 5600, 5322, 5717, 5599, 5558, 5261, 5326, 5367, 5671, 5488, 5511, 5616, 5374, 5365, 5417, 5579, 5636, 5621, 5491, 5282, 5669, 5349, 5507, 5691, 5495, 5290, 5390, 5713, 5321, 5378, 5694, 5591, 5628, 5710, 5574, 5607, 5685, 5586, 5389, 5538, 5613, 5548, 5357, 5652, 5465, 5424, 5466, 5460, 5718, 5493, 5268, 5598, 5508 (2 hits)
33	9	1.0	333.0	Yes	5535.0MHz, -64.0dBm	5538, 5581, 5418, 5368, 5619, 5689, 5610, 5366, 5668, 5626, 5575, 5491, 5561, 5436, 5690, 5515, 5360, 5521, 5474, 5546, 5344, 5475, 5404, 5434, 5682, 5431, 5365, 5444, 5369, 5341, 5685, 5456, 5695, 5328, 5496, 5524, 5441, 5615, 5349, 5535, 5618, 5484, 5387, 5335, 5659,

						5355, 5507, 5442, 5293, 5410, 5654, 5697, 5634, 5480, 5462, 5306, 5437, 5582, 5426, 5260, 5291, 5454, 5394, 5720, 5498, 5262, 5423, 5375, 5403, 5675, 5493, 5388, 5566, 5681, 5511, 5725, 5595, 5702, 5648, 5637, 5667, 5363, 5625, 5584, 5362, 5661, 5412, 5401, 5452, 5440, 5425, 5602, 5499, 5393, 5343, 5657, 5708, 5470, 5280, 5567 (4 hits)
34	9	1.0	333.0	Yes	5536.0MHz, -64.0dBm	5670, 5261, 5430, 5587, 5258, 5459, 5384, 5649, 5345, 5700, 5292, 5376, 5445, 5348, 5574, 5280, 5277, 5306, 5433, 5672, 5282, 5420, 5354, 5702, 5551, 5625, 5659, 5451, 5523, 5692, 5481, 5666, 5689, 5471, 5668, 5556, 5499, 5350, 5349, 5622, 5546, 5309, 5310, 5698, 5623, 5399, 5413, 5402, 5644, 5685, 5539, 5476, 5470, 5383, 5581, 5677, 5307, 5638, 5695, 5373, 5386, 5600, 5553, 5343, 5295, 5493, 5531, 5487, 5674, 5334, 5701, 5356, 5255, 5388, 5500, 5344, 5359, 5706, 5287, 5432, 5511, 5410, 5316, 5394, 5612, 5660, 5715, 5590, 5265, 5563, 5557, 5400, 5626, 5392, 5569, 5664, 5618, 5548, 5449, 5534 (4 hits)
35	9	1.0	333.0	Yes	5537.0MHz, -64.0dBm	5579, 5564, 5393, 5303, 5384, 5672, 5281, 5454, 5480, 5645, 5358, 5291, 5517, 5705, 5270, 5497, 5492, 5354, 5620, 5488, 5595, 5387, 5464, 5320, 5463, 5457, 5491, 5511, 5696, 5363, 5280, 5601, 5460, 5515, 5316, 5251, 5605, 5508, 5569, 5668, 5644, 5254, 5404, 5339, 5369, 5681, 5427, 5581, 5482, 5583, 5611, 5373, 5692, 5582, 5609, 5255, 5671, 5634, 5439, 5532, 5590, 5343, 5327, 5421, 5565, 5506, 5545, 5430, 5655, 5466, 5436, 5290, 5397, 5574, 5315, 5614, 5367, 5419, 5416, 5615, 5332, 5453, 5512, 5701, 5321, 5434, 5262, 5282, 5383, 5299, 5424, 5331, 5678, 5425, 5489, 5714, 5495, 5663, 5630, 5406 (1 hits)
36	9	1.0	333.0	Yes	5538.0MHz, -64.0dBm	5484, 5640, 5709, 5295, 5354, 5438, 5691, 5682, 5512, 5433, 5610, 5669, 5385, 5293, 5584, 5578, 5437, 5519, 5619, 5280, 5576, 5430, 5589, 5573, 5432,

						5502, 5330, 5415, 5283, 5708, 5547, 5368, 5638, 5366, 5336, 5707, 5645, 5520, 5606, 5253, 5421, 5323, 5271, 5304, 5464, 5399, 5636, 5307, 5264, 5718, 5628, 5683, 5386, 5678, 5643, 5458, 5634, 5376, 5604, 5440, 5542, 5694, 5369, 5416, 5637, 5523, 5599, 5631, 5524, 5492, 5554, 5349, 5302, 5562, 5388, 5580, 5266, 5680, 5579, 5652, 5309, 5677, 5698, 5299, 5472, 5526, 5428, 5626, 5546, 5325, 5456, 5521, 5459, 5318, 5701, 5535, 5621, 5499, 5274, 5279 (5 hits)
37	9	1.0	333.0	Yes	5539.0MHz, -64.0dBm	5654, 5438, 5471, 5564, 5659, 5696, 5251, 5353, 5570, 5563, 5506, 5320, 5550, 5638, 5646, 5543, 5690, 5681, 5614, 5677, 5624, 5604, 5458, 5268, 5384, 5700, 5561, 5426, 5723, 5522, 5618, 5474, 5501, 5305, 5281, 5674, 5278, 5500, 5536, 5279, 5313, 5521, 5565, 5457, 5292, 5286, 5616, 5416, 5300, 5369, 5449, 5605, 5456, 5598, 5297, 5294, 5684, 5356, 5707, 5567, 5314, 5633, 5530, 5492, 5495, 5481, 5597, 5575, 5586, 5311, 5258, 5374, 5600, 5527, 5468, 5387, 5333, 5290, 5397, 5615, 5620, 5626, 5491, 5701, 5306, 5302, 5610, 5547, 5331, 5451, 5577, 5408, 5637, 5682, 5304, 5345, 5470, 5685, 5612, 5523 (6 hits)

Table 8 - Long Sequence Waveform Summary

Long Sequence Trial	Result	Radar Frequency / Amplitude
Trial #1	Detected	5530.0MHz, -64.0dBm
Trial #2	Detected	5530.0MHz, -64.0dBm
Trial #3	Detected	5530.0MHz, -64.0dBm
Trial #4	Detected	5530.0MHz, -64.0dBm
Trial #5	Detected	5530.0MHz, -64.0dBm
Trial #6	Detected	5530.0MHz, -64.0dBm
Trial #7	Detected	5530.0MHz, -64.0dBm
Trial #8	Detected	5530.0MHz, -64.0dBm
Trial #9	Detected	5530.0MHz, -64.0dBm
Trial #10	Detected	5530.0MHz, -64.0dBm
Trial #11	Detected	5530.0MHz, -64.0dBm
Trial #12	Detected	5530.0MHz, -64.0dBm
Trial #13	Detected	5530.0MHz, -64.0dBm
Trial #14	Detected	5530.0MHz, -64.0dBm
Trial #15	Detected	5530.0MHz, -64.0dBm
Trial #16	Detected	5530.0MHz, -64.0dBm
Trial #17	Detected	5530.0MHz, -64.0dBm
Trial #18	Detected	5530.0MHz, -64.0dBm
Trial #19	Detected	5530.0MHz, -64.0dBm
Trial #20	Detected	5530.0MHz, -64.0dBm
Trial #21	Detected	5530.0MHz, -64.0dBm
Trial #22	Detected	5530.0MHz, -64.0dBm
Trial #23	Detected	5530.0MHz, -64.0dBm
Trial #24	Detected	5530.0MHz, -64.0dBm
Trial #25	Detected	5530.0MHz, -64.0dBm
Trial #26	Detected	5530.0MHz, -64.0dBm
Trial #27	Detected	5530.0MHz, -64.0dBm

Trial #28	Detected	5530.0MHz, -64.0dBm
Trial #29	Detected	5530.0MHz, -64.0dBm
Trial #30	Detected	5530.0MHz, -64.0dBm

Table 9 - Long Sequence Waveform Trial#1 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	1	77.3	10	-	-	0.776210
1	3	74.4	16	1880.0	1367.0	1.375818
2	2	58.2	12	1281.0	-	2.554162
3	2	85.6	11	1818.0	-	3.207384
4	3	63.6	16	1076.0	1376.0	4.409317
5	2	53.7	17	1918.0	-	5.017577
6	2	61.1	7	1949.0	-	6.038258
7	1	63.0	10	-	-	7.195599
8	1	85.4	10	-	-	7.692729
9	3	98.3	7	1398.0	1684.0	8.712038
10	2	60.4	12	1100.0	-	9.766960
11	2	55.6	10	1497.0	-	10.279865
12	1	79.6	14	-	-	11.870569

Table 10 - 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	58.2	18	1968.0	1097.0	0.648063
1	1	92.8	17	-	-	1.177655
2	1	86.9	18	-	-	2.785614
3	1	99.6	12	-	-	3.583094
4	2	57.5	7	1812.0	-	4.039435
5	2	72.0	10	1111.0	-	5.097106
6	2	97.4	15	1771.0	-	6.360901
7	3	87.7	13	1196.0	1484.0	7.321111
8	2	89.1	10	1650.0	-	8.439392
9	2	76.9	15	1865.0	-	9.925962
10	2	67.1	11	1365.0	-	10.812868
11	3	75.6	8	1443.0	1366.0	11.077312

Table 11 - 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	54.7	12	1464.0	-	0.378758
1	2	68.6	14	1289.0	-	1.543861
2	2	64.8	20	1844.0	-	3.898023
3	3	69.7	15	1869.0	1356.0	4.792238
4	2	97.6	20	1618.0	-	6.969742
5	3	59.9	12	1702.0	1508.0	8.468101
6	3	72.9	10	1672.0	1201.0	10.292604
7	3	54.1	18	1100.0	1591.0	10.608073

Table 12 - 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	3	95.7	15	1448.0	1944.0	0.685749
1	2	60.1	19	1366.0	-	1.299496
2	3	99.2	5	1493.0	1990.0	1.892679
3	3	69.6	11	1964.0	1473.0	2.225820
4	3	88.7	7	1109.0	1390.0	3.233614
5	2	62.1	18	1164.0	-	3.562994
6	3	93.2	18	1983.0	1203.0	4.718327
7	1	51.9	10	-	-	5.586364
8	3	73.8	9	1755.0	1176.0	5.803553
9	3	71.4	9	1304.0	1043.0	6.375067
10	2	90.8	10	1527.0	-	7.475125
11	2	64.8	6	1400.0	-	7.866419
12	3	73.6	10	1955.0	1332.0	8.811474
13	3	87.5	14	1695.0	1075.0	9.541731
14	2	77.9	10	1694.0	-	10.519074
15	2	56.9	19	1131.0	-	10.805654
16	2	51.7	10	1903.0	-	11.753399

Table 13 - 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	2	87.4	6	1550.0	-	0.729705
1	2	71.4	7	1079.0	-	1.634877
2	2	61.8	19	1924.0	-	2.037435
3	2	61.0	11	1742.0	-	3.349199
4	1	79.1	16	-	-	4.085621
5	2	74.8	9	1271.0	-	5.569222
6	3	98.6	12	1555.0	1576.0	6.283138
7	1	82.5	13	-	-	7.425448
8	3	68.1	9	1687.0	1885.0	8.562928
9	2	80.4	9	1146.0	-	9.595357
10	1	55.7	5	-	-	10.917327
11	2	70.9	11	1117.0	-	11.170724

Table 14 - Long Sequence Waveform Trial#6 (Detected)

Burst #	#	Pulse Width	Chirp	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
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	Pulses	(us)	(MHz)			
0	2	77.7	12	1815.0	-	0.033552
1	2	76.9	13	1584.0	-	1.798334
2	3	97.5	16	1110.0	1074.0	2.808763
3	2	91.7	17	1657.0	-	3.079697
4	1	99.3	18	-	-	4.958129
5	3	79.6	14	1813.0	1042.0	5.550475
6	2	73.3	7	1477.0	-	6.216783
7	2	95.2	12	1734.0	-	7.894863
8	2	85.2	12	1811.0	-	8.357971
9	2	91.7	12	1323.0	-	9.977508
10	1	84.9	11	-	-	10.282091
11	2	52.0	16	1104.0	-	11.937022

Table 15 - 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	60.1	18	-	-	0.152339
1	2	96.3	17	1947.0	-	1.161902
2	2	87.2	9	1318.0	-	3.120159
3	1	52.2	9	-	-	3.425599
4	1	57.5	17	-	-	5.354947
5	1	70.3	10	-	-	5.734626
6	2	61.8	17	1822.0	-	6.958980
7	2	95.8	7	1221.0	-	7.938036
8	3	54.7	6	1137.0	1840.0	9.587878
9	2	75.7	10	1186.0	-	9.882122
10	1	99.0	15	-	-	11.477157

Table 16 - 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	81.5	17	1207.0	-	0.215912
1	3	88.1	12	1551.0	1064.0	1.048336
2	2	83.7	16	1088.0	-	2.696867
3	2	59.3	15	1281.0	-	3.518614
4	3	65.4	9	1111.0	1534.0	3.699431
5	2	97.0	17	1938.0	-	5.454560
6	3	52.3	18	1400.0	1056.0	5.908161
7	2	87.5	6	1607.0	-	6.897897
8	2	55.1	15	1127.0	-	8.186211
9	1	90.5	5	-	-	8.858254
10	2	97.9	10	1307.0	-	9.713348
11	3	82.3	14	1843.0	1691.0	10.571656
12	2	62.0	14	1288.0	-	11.807550

Table 17 - 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	3	65.7	14	1124.0	1539.0	1.252574
1	1	68.8	10	-	-	2.625940
2	1	56.0	15	-	-	3.538973
3	1	64.2	19	-	-	4.642702
4	3	61.7	17	1137.0	1749.0	5.881093
5	3	57.0	7	1924.0	1871.0	7.503117
6	3	70.0	6	1418.0	1936.0	8.055006
7	3	63.6	13	1446.0	1098.0	10.521974
8	3	65.0	8	1565.0	1293.0	11.098816

Table 18 - 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	3	88.3	8	1643.0	1606.0	0.399079
1	1	93.2	13	-	-	0.848228
2	2	67.8	14	1412.0	-	1.945868
3	2	93.0	7	1389.0	-	2.019844
4	2	51.0	18	1755.0	-	3.308663
5	1	90.8	19	-	-	3.723337
6	2	73.8	17	1649.0	-	4.563974
7	2	67.5	14	1722.0	-	4.756292
8	3	85.8	7	1953.0	1863.0	5.404331
9	3	90.0	7	1434.0	1588.0	6.186997
10	2	53.8	19	1821.0	-	6.847409
11	1	72.2	12	-	-	7.386767
12	2	63.6	15	1697.0	-	8.082916
13	3	99.1	11	1563.0	1107.0	9.321812
14	1	97.9	7	-	-	9.364534
15	1	81.9	14	-	-	10.655713
16	3	60.6	13	1159.0	1311.0	11.220926
17	3	93.7	12	1011.0	1821.0	11.905838

Table 19 - 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	2	50.7	19	1359.0	-	0.256102
1	2	73.1	11	1499.0	-	2.536459
2	2	97.1	13	1704.0	-	3.834025
3	2	86.4	14	1635.0	-	4.161534
4	2	97.4	17	1949.0	-	5.343922
5	2	60.7	10	1061.0	-	7.569371
6	3	74.8	12	1365.0	1984.0	8.645430
7	2	96.5	18	1437.0	-	9.957208
8	3	91.4	11	1159.0	1641.0	10.741625

Table 20 - 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	1	87.0	13	-	-	0.996853
1	2	74.7	12	1840.0	-	1.355898
2	1	58.0	14	-	-	2.258720
3	1	91.4	9	-	-	3.045707
4	3	54.3	18	1189.0	1608.0	4.002139
5	2	79.4	19	1495.0	-	5.007390
6	3	89.2	9	1857.0	1827.0	6.989495
7	1	62.2	9	-	-	7.645559
8	2	81.6	5	1314.0	-	8.626013
9	3	56.2	11	1624.0	1073.0	9.193255
10	1	58.6	10	-	-	10.943450
11	2	58.1	8	1521.0	-	11.190452

Table 21 - 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	1	60.3	15	-	-	0.503783
1	2	99.7	6	1680.0	-	1.000501
2	3	71.3	16	1550.0	1943.0	1.312733
3	2	81.3	18	1094.0	-	1.920142
4	2	99.6	19	1658.0	-	2.622640
5	2	77.1	16	1273.0	-	3.120047
6	1	94.8	9	-	-	3.826183
7	2	87.5	15	1662.0	-	4.588369
8	2	99.7	15	1212.0	-	4.948995
9	1	94.9	17	-	-	5.666534
10	2	81.5	16	1800.0	-	6.590538
11	1	71.0	13	-	-	7.140865
12	2	54.3	10	1324.0	-	7.749711
13	1	51.6	8	-	-	7.815821
14	2	85.9	15	1204.0	-	8.558093
15	3	69.3	17	1860.0	1081.0	9.452883
16	3	63.7	6	1630.0	1058.0	9.856472
17	2	73.6	7	1415.0	-	10.202032
18	1	86.9	12	-	-	11.183704
19	1	82.5	9	-	-	11.796840

Table 22 - 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	2	59.1	17	1651.0	-	1.117114
1	2	61.7	16	1570.0	-	1.348510
2	1	67.9	17	-	-	3.256410
3	1	70.7	13	-	-	4.306191
4	1	55.7	16	-	-	5.968085
5	2	66.8	6	1192.0	-	7.097960
6	3	74.9	10	1885.0	1091.0	7.407635
7	1	50.6	6	-	-	8.523457
8	1	99.3	13	-	-	10.625347
9	3	72.3	20	1774.0	1243.0	11.848004

Table 23 - 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	1	59.4	6	-	-	0.022064
1	2	94.6	8	1551.0	-	0.856450
2	3	67.8	10	1682.0	1293.0	1.534425
3	2	88.4	7	1712.0	-	2.645259
4	3	84.5	14	1004.0	1721.0	3.165958
5	1	64.6	8	-	-	3.519179
6	2	67.2	14	1624.0	-	4.243707
7	1	53.9	7	-	-	5.159369
8	1	63.1	13	-	-	5.806309
9	3	50.8	16	1635.0	1177.0	6.086843
10	2	50.5	13	1061.0	-	7.122974
11	2	59.8	15	1620.0	-	7.392613
12	2	52.7	8	1931.0	-	8.484056
13	2	80.3	6	1145.0	-	9.068867
14	2	85.4	6	1488.0	-	9.623651
15	2	83.2	9	1180.0	-	10.294197
16	2	53.7	12	1267.0	-	10.722239
17	1	97.7	6	-	-	11.341728

Table 24 - 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	80.0	9	1984.0	-	0.255116
1	2	54.4	11	1848.0	-	1.098820
2	2	95.5	7	1885.0	-	1.500597
3	1	56.3	18	-	-	2.269692
4	3	86.7	6	1937.0	1232.0	3.669446
5	2	90.5	13	1850.0	-	4.204669
6	3	51.8	5	1688.0	1323.0	4.580429
7	2	69.9	7	1739.0	-	5.680661
8	2	66.4	15	1057.0	-	6.312686
9	1	57.5	11	-	-	6.852954
10	3	57.0	19	1252.0	1197.0	7.523992
11	1	88.2	13	-	-	8.787417
12	1	54.7	14	-	-	9.520824
13	2	96.9	20	1227.0	-	9.753343
14	3	62.5	11	1200.0	1703.0	10.934702
15	1	78.7	14	-	-	11.967989

Table 25 - 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	2	99.1	16	1808.0	-	0.121680
1	2	67.1	12	1021.0	-	1.278240
2	2	63.8	12	1176.0	-	2.567360
3	3	69.1	14	1988.0	1349.0	2.631122
4	1	87.3	13	-	-	3.457992
5	3	92.8	10	1016.0	1577.0	5.096014
6	1	95.5	18	-	-	5.314367
7	3	77.6	10	1352.0	1153.0	6.680901
8	3	63.9	7	1561.0	1943.0	7.560941
9	1	72.6	8	-	-	8.345080
10	1	64.5	11	-	-	8.877296
11	3	60.2	8	1630.0	1467.0	9.807366
12	3	50.9	7	1791.0	1597.0	10.385982
13	2	98.2	7	1124.0	-	11.647511

Table 26 - 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	2	61.2	20	1139.0	-	0.350412
1	3	60.2	13	1410.0	1775.0	1.030667
2	1	73.0	16	-	-	1.946189
3	1	92.6	16	-	-	2.507355
4	3	58.5	9	1844.0	1716.0	3.468525
5	2	85.5	9	1696.0	-	3.965884
6	1	62.4	10	-	-	4.547920
7	1	75.5	14	-	-	5.506927
8	3	86.1	15	1788.0	1688.0	5.673028
9	2	50.8	15	1923.0	-	6.474418
10	1	60.2	17	-	-	7.255171
11	2	92.4	16	1577.0	-	8.153400
12	1	65.8	14	-	-	8.509638
13	1	86.1	14	-	-	9.257698
14	1	74.6	20	-	-	10.484825
15	3	56.4	9	1453.0	1403.0	11.007285
16	2	99.0	8	1309.0	-	11.861835

Table 27 - 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	3	77.2	16	1304.0	1993.0	0.243273
1	3	63.3	18	1586.0	1491.0	0.961844
2	3	67.6	20	1169.0	1132.0	2.051112
3	2	81.5	17	1070.0	-	2.838678
4	3	63.8	13	1351.0	1009.0	4.481614
5	3	56.8	11	1115.0	1545.0	5.122038
6	2	65.3	12	1737.0	-	5.842367
7	2	79.2	8	1383.0	-	7.294870
8	1	78.2	8	-	-	7.445035
9	1	93.7	16	-	-	8.685196
10	2	94.7	7	1680.0	-	10.042050
11	2	64.1	14	1137.0	-	10.440495
12	2	86.5	9	1411.0	-	11.808805

Table 28 - 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	3	95.1	11	1221.0	1904.0	0.642705
1	3	77.0	14	1544.0	1615.0	1.640719
2	2	75.8	17	1809.0	-	1.812831
3	3	72.6	17	1795.0	1847.0	3.278830
4	1	56.4	10	-	-	3.593735
5	2	63.8	12	1995.0	-	4.797339
6	1	77.0	9	-	-	5.962139
7	2	85.3	8	1446.0	-	6.028186
8	2	75.6	18	1989.0	-	7.665231
9	2	52.8	12	1063.0	-	8.376604
10	2	86.5	17	1285.0	-	9.073120
11	2	96.0	16	1784.0	-	9.675072
12	2	69.7	8	1945.0	-	10.566144
13	2	64.0	12	1953.0	-	11.841334

Table 29 - 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	56.7	13	1168.0	1601.0	0.121788
1	1	79.8	10	-	-	1.184317
2	2	65.8	6	1097.0	-	2.115044
3	3	58.4	10	1922.0	1751.0	2.955749
4	2	54.6	8	1721.0	-	3.442166
5	2	70.2	8	1403.0	-	4.846050
6	3	98.4	7	1449.0	1203.0	5.860490
7	3	83.3	13	1925.0	1520.0	6.775019
8	3	80.1	6	1948.0	1017.0	7.404115
9	1	93.9	18	-	-	8.568180
10	2	79.3	6	1124.0	-	8.579749
11	3	75.6	15	1561.0	1557.0	10.103449
12	1	61.9	16	-	-	10.637797
13	3	78.5	15	1860.0	1760.0	11.287164

Table 30 - 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	3	82.4	9	1365.0	1990.0	0.533487
1	2	86.2	18	1313.0	-	0.781001
2	2	55.8	15	1103.0	-	1.491409
3	2	54.7	12	1804.0	-	2.610329
4	1	99.0	6	-	-	3.039669
5	2	81.3	8	1613.0	-	3.403773
6	1	85.2	15	-	-	4.061822
7	3	53.8	9	1688.0	1469.0	4.667866
8	2	85.2	11	1041.0	-	5.369119
9	2	92.4	6	1887.0	-	6.233360
10	1	66.1	7	-	-	7.275531
11	2	66.3	12	1008.0	-	7.905669
12	2	73.9	11	1895.0	-	8.545137
13	1	89.3	6	-	-	9.315545
14	2	81.7	15	1249.0	-	9.785160
15	2	75.3	7	1536.0	-	10.107305
16	3	70.9	9	1813.0	1789.0	10.816788
17	2	92.4	11	1161.0	-	11.782232

Table 31 - 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	1	86.6	15	-	-	0.526562
1	2	71.5	7	1652.0	-	1.573570
2	2	69.4	17	1441.0	-	2.615968
3	1	66.3	10	-	-	4.626216
4	3	67.2	13	1146.0	1500.0	5.179853
5	2	78.4	9	1385.0	-	6.698279
6	3	84.9	9	1647.0	1977.0	7.505837
7	1	77.0	15	-	-	8.543727
8	3	87.7	6	1330.0	1545.0	9.985046
9	2	61.6	18	1606.0	-	11.269656

Table 32 - 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	51.6	20	1229.0	-	0.149165
1	2	84.1	11	1341.0	-	1.974183
2	2	89.0	14	1686.0	-	2.051469
3	3	96.2	7	1644.0	1765.0	3.579222
4	1	54.1	17	-	-	4.303533
5	3	94.5	5	1015.0	1762.0	5.680456
6	1	63.3	7	-	-	6.161133
7	1	74.3	16	-	-	7.212900
8	1	74.2	13	-	-	8.207513
9	2	90.0	6	1182.0	-	9.829911
10	2	94.1	12	1702.0	-	10.051393
11	3	51.9	6	1371.0	1359.0	11.653821

Table 33 - 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	77.9	8	1103.0	-	0.173320
1	3	54.7	12	1721.0	1876.0	1.303314
2	1	85.0	9	-	-	1.340084
3	1	96.3	10	-	-	2.531440
4	1	62.9	16	-	-	3.108943
5	1	98.7	12	-	-	3.385864
6	2	87.8	20	1407.0	-	4.317501
7	1	86.8	8	-	-	5.104629
8	2	71.0	17	1606.0	-	5.411766
9	2	67.8	14	1328.0	-	6.433344
10	2	52.1	7	1786.0	-	6.888397
11	1	95.5	10	-	-	7.531759
12	1	97.2	14	-	-	8.291079
13	1	75.5	10	-	-	9.183211
14	2	59.4	7	1312.0	-	9.423916
15	3	93.8	19	1092.0	1134.0	10.063357
16	1	84.0	5	-	-	11.151119
17	3	54.6	16	1245.0	1296.0	11.805125

Table 34 - 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	1	80.5	6	-	-	0.829672
1	3	90.8	5	1193.0	1041.0	1.501301
2	2	98.4	12	1989.0	-	2.726852
3	1	90.5	5	-	-	3.879300
4	2	89.7	14	1537.0	-	4.625632
5	3	63.6	18	1503.0	1038.0	5.551693
6	1	99.3	12	-	-	7.098230
7	2	91.7	20	1494.0	-	8.495891
8	3	52.6	14	1503.0	1543.0	9.710477
9	2	87.2	13	1492.0	-	9.870716
10	1	91.7	10	-	-	10.978304

Table 35 - 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	97.0	20	1326.0	-	0.458624
1	2	94.1	12	1799.0	-	0.940784
2	2	84.8	12	1867.0	-	1.808640
3	3	72.7	19	1911.0	1509.0	3.045796
4	2	78.0	19	1989.0	-	4.256011
5	3	79.6	8	1897.0	1471.0	4.902869
6	2	86.1	6	1929.0	-	5.357913
7	2	95.9	17	1956.0	-	6.423253
8	1	68.9	12	-	-	7.627206
9	2	65.0	11	1800.0	-	7.930898
10	3	85.8	19	1015.0	1856.0	9.104147
11	3	92.7	13	1421.0	1084.0	9.922714
12	1	75.7	16	-	-	10.436576
13	3	71.0	12	1429.0	1148.0	11.424440

Table 36 - 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	1	60.5	6	-	-	0.115091
1	1	52.6	11	-	-	1.922795
2	2	91.8	6	1460.0	-	2.613181
3	3	93.0	15	1751.0	1882.0	3.713874
4	1	56.7	5	-	-	5.399040
5	1	56.0	14	-	-	6.131878
6	3	79.4	18	1921.0	1612.0	7.434783
7	3	83.4	20	1137.0	1283.0	8.353364
8	2	51.4	12	1784.0	-	8.921455
9	1	81.9	17	-	-	10.383735
10	1	52.6	19	-	-	11.035713

Table 37 - 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	2	54.0	14	1486.0	-	0.583335
1	3	56.3	9	1057.0	1433.0	1.419877
2	1	51.7	13	-	-	2.056958
3	2	87.9	14	1461.0	-	2.855484
4	3	65.2	18	1197.0	1812.0	3.274555
5	1	61.0	7	-	-	3.884017
6	3	98.2	18	1291.0	1197.0	5.201411
7	2	94.7	19	1878.0	-	5.695064
8	2	91.2	15	1453.0	-	6.682442
9	1	75.7	14	-	-	6.788052
10	3	66.7	17	1922.0	1776.0	7.669292
11	2	57.6	14	1438.0	-	8.473418
12	2	99.4	6	1139.0	-	9.662111
13	1	78.6	11	-	-	10.377600
14	1	55.9	11	-	-	10.833311
15	2	51.3	19	1639.0	-	11.981224

Table 38 - Long Sequence Waveform Trial#30 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	58.2	10	1365.0	-	0.001239
1	1	66.6	12	-	-	1.846423
2	2	67.7	10	1050.0	-	3.482503
3	2	80.1	15	1120.0	-	3.664211
4	2	93.6	14	1798.0	-	5.047555
5	2	81.2	20	1586.0	-	7.129508
6	1	77.8	12	-	-	8.269657
7	2	75.0	13	1961.0	-	8.404242
8	3	64.0	6	1869.0	1579.0	10.200406
9	2	53.7	13	1887.0	-	11.186130

Appendix C Test Data Tables for Radar Detection Probability FCC & RSS-210 (Client Device)**Table 39 - Summary of All Results (Client Device)**

Waveform Name	Success Rate	Number of Trials
FCC Short Pulse Radar (Type 1)	96.7 %	30
FCC Short Pulse Radar (Type 2)	100.0 %	30
FCC Short Pulse Radar (Type 3)	86.7 %	30
FCC Short Pulse Radar (Type 4)	70.0 %	30
FCC frequency hopping radar (Type 6)	100.0 %	32
Long Sequence	100.0 %	30

Table 40 - 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	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
1	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
2	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
3	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
4	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
5	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
6	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
7	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
8	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
9	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
10	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
11	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
12	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
13	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
14	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
15	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
16	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
17	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
18	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A

19	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
20	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
21	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
22	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
23	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
24	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
25	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
26	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
27	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
28	18	1.0	1428.0	Yes	5530.0MHz, -64.0dBm	N/A
29	18	1.0	1428.0	No	5530.0MHz, -64.0dBm	N/A

Table 41 - 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	27	2.4	176.0	Yes	5530.0MHz, -64.0dBm	N/A
1	25	2.0	206.0	Yes	5530.0MHz, -64.0dBm	N/A
2	27	1.4	220.0	Yes	5530.0MHz, -64.0dBm	N/A
3	27	2.0	203.0	Yes	5530.0MHz, -64.0dBm	N/A
4	25	1.4	185.0	Yes	5530.0MHz, -64.0dBm	N/A
5	24	1.1	184.0	Yes	5530.0MHz, -64.0dBm	N/A
6	23	1.3	153.0	Yes	5530.0MHz, -64.0dBm	N/A
7	28	4.9	196.0	Yes	5530.0MHz, -64.0dBm	N/A
8	28	1.7	156.0	Yes	5530.0MHz, -64.0dBm	N/A
9	28	1.8	216.0	Yes	5530.0MHz, -64.0dBm	N/A
10	25	4.1	207.0	Yes	5530.0MHz, -64.0dBm	N/A
11	24	4.1	189.0	Yes	5530.0MHz, -64.0dBm	N/A
12	24	1.8	204.0	Yes	5530.0MHz, -64.0dBm	N/A
13	27	3.3	180.0	Yes	5530.0MHz, -64.0dBm	N/A
14	25	5.0	159.0	Yes	5530.0MHz, -64.0dBm	N/A

15	23	4.8	189.0	Yes	5530.0MHz, -64.0dBm	N/A
16	23	2.7	207.0	Yes	5530.0MHz, -64.0dBm	N/A
17	24	4.8	205.0	Yes	5530.0MHz, -64.0dBm	N/A
18	24	4.1	220.0	Yes	5530.0MHz, -64.0dBm	N/A
19	26	1.3	152.0	Yes	5530.0MHz, -64.0dBm	N/A
20	24	1.6	156.0	Yes	5530.0MHz, -64.0dBm	N/A
21	26	4.1	161.0	Yes	5530.0MHz, -64.0dBm	N/A
22	27	3.4	209.0	Yes	5530.0MHz, -64.0dBm	N/A
23	25	4.0	167.0	Yes	5530.0MHz, -64.0dBm	N/A
24	24	3.8	206.0	Yes	5530.0MHz, -64.0dBm	N/A
25	26	1.4	218.0	Yes	5530.0MHz, -64.0dBm	N/A
26	25	3.6	180.0	Yes	5530.0MHz, -64.0dBm	N/A
27	25	4.5	204.0	Yes	5530.0MHz, -64.0dBm	N/A
28	24	2.8	214.0	Yes	5530.0MHz, -64.0dBm	N/A
29	23	2.4	221.0	Yes	5530.0MHz, -64.0dBm	N/A

Table 42 - 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	16	6.9	238.0	Yes	5530.0MHz, -64.0dBm	N/A
1	17	8.2	224.0	Yes	5530.0MHz, -64.0dBm	N/A
2	17	9.6	274.0	Yes	5530.0MHz, -64.0dBm	N/A
3	16	7.8	376.0	Yes	5530.0MHz, -64.0dBm	N/A
4	16	6.0	450.0	Yes	5530.0MHz, -64.0dBm	N/A
5	17	6.1	321.0	No	5530.0MHz, -64.0dBm	N/A
6	17	7.7	232.0	Yes	5530.0MHz, -64.0dBm	N/A
7	16	7.0	241.0	Yes	5530.0MHz, -64.0dBm	N/A
8	18	6.4	474.0	Yes	5530.0MHz, -64.0dBm	N/A
9	17	8.4	388.0	Yes	5530.0MHz, -64.0dBm	N/A
10	17	7.5	380.0	Yes	5530.0MHz, -64.0dBm	N/A

11	18	9.7	348.0	Yes	5530.0MHz, -64.0dBm	N/A
12	18	8.6	440.0	Yes	5530.0MHz, -64.0dBm	N/A
13	17	8.2	387.0	Yes	5530.0MHz, -64.0dBm	N/A
14	18	7.8	237.0	No	5530.0MHz, -64.0dBm	N/A
15	16	9.8	334.0	Yes	5530.0MHz, -64.0dBm	N/A
16	17	9.5	431.0	Yes	5530.0MHz, -64.0dBm	N/A
17	18	8.0	289.0	Yes	5530.0MHz, -64.0dBm	N/A
18	17	6.0	238.0	Yes	5530.0MHz, -64.0dBm	N/A
19	18	7.2	472.0	Yes	5530.0MHz, -64.0dBm	N/A
20	17	7.0	419.0	Yes	5530.0MHz, -64.0dBm	N/A
21	17	8.1	383.0	Yes	5530.0MHz, -64.0dBm	N/A
22	17	6.9	338.0	Yes	5530.0MHz, -64.0dBm	N/A
23	16	7.4	250.0	Yes	5530.0MHz, -64.0dBm	N/A
24	17	9.0	247.0	Yes	5530.0MHz, -64.0dBm	N/A
25	18	8.5	305.0	Yes	5530.0MHz, -64.0dBm	N/A
26	17	8.1	450.0	Yes	5530.0MHz, -64.0dBm	N/A
27	17	6.1	285.0	No	5530.0MHz, -64.0dBm	N/A
28	17	9.6	409.0	No	5530.0MHz, -64.0dBm	N/A
29	17	8.4	321.0	Yes	5530.0MHz, -64.0dBm	N/A

Table 43 - 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	13	18.5	471.0	Yes	5530.0MHz, -64.0dBm	N/A
1	15	13.7	317.0	Yes	5530.0MHz, -64.0dBm	N/A
2	14	15.9	345.0	Yes	5530.0MHz, -64.0dBm	N/A
3	12	14.3	428.0	No	5530.0MHz, -64.0dBm	N/A
4	15	13.4	392.0	Yes	5530.0MHz, -64.0dBm	N/A
5	16	15.7	372.0	Yes	5530.0MHz, -64.0dBm	N/A
6	12	18.3	245.0	Yes	5530.0MHz, -64.0dBm	N/A

7	14	18.9	364.0	Yes	5530.0MHz, -64.0dBm	N/A
8	12	12.9	311.0	No	5530.0MHz, -64.0dBm	N/A
9	12	15.2	245.0	Yes	5530.0MHz, -64.0dBm	N/A
10	15	15.1	242.0	Yes	5530.0MHz, -64.0dBm	N/A
11	13	14.2	376.0	Yes	5530.0MHz, -64.0dBm	N/A
12	15	14.3	309.0	Yes	5530.0MHz, -64.0dBm	N/A
13	12	17.0	447.0	Yes	5530.0MHz, -64.0dBm	N/A
14	15	15.7	361.0	No	5530.0MHz, -64.0dBm	N/A
15	13	16.6	434.0	Yes	5530.0MHz, -64.0dBm	N/A
16	13	19.6	266.0	Yes	5530.0MHz, -64.0dBm	N/A
17	14	15.6	377.0	Yes	5530.0MHz, -64.0dBm	N/A
18	13	18.2	214.0	No	5530.0MHz, -64.0dBm	N/A
19	14	15.0	393.0	Yes	5530.0MHz, -64.0dBm	N/A
20	15	17.1	297.0	No	5530.0MHz, -64.0dBm	N/A
21	12	18.8	436.0	No	5530.0MHz, -64.0dBm	N/A
22	16	17.3	308.0	No	5530.0MHz, -64.0dBm	N/A
23	15	15.8	220.0	No	5530.0MHz, -64.0dBm	N/A
24	15	13.2	335.0	Yes	5530.0MHz, -64.0dBm	N/A
25	14	19.0	315.0	Yes	5530.0MHz, -64.0dBm	N/A
26	15	15.9	462.0	Yes	5530.0MHz, -64.0dBm	N/A
27	16	11.6	337.0	No	5530.0MHz, -64.0dBm	N/A
28	14	19.5	449.0	Yes	5530.0MHz, -64.0dBm	N/A
29	13	14.8	428.0	Yes	5530.0MHz, -64.0dBm	N/A

Table 44 - FCC frequency hopping radar (Type 6) 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	5522.0MHz, -64.0dBm	5612, 5581, 5301, 5299, 5404, 5371, 5702, 5596, 5338, 5689, 5416, 5642, 5510, 5323, 5615, 5594, 5525, 5531, 5655, 5670, 5588, 5609, 5646, 5698, 5592, 5506, 5313, 5361, 5500, 5401,

						5528, 5314, 5421, 5605, 5641, 5267, 5629, 5669, 5552, 5515, 5548, 5422, 5678, 5558, 5322, 5723, 5277, 5725, 5395, 5651, 5630, 5724, 5579, 5259, 5534, 5345, 5389, 5697, 5687, 5295, 5403, 5487, 5679, 5306, 5681, 5497, 5483, 5671, 5504, 5566, 5335, 5722, 5659, 5577, 5312, 5364, 5376, 5614, 5486, 5367, 5320, 5366, 5509, 5300, 5638, 5576, 5369, 5547, 5275, 5667, 5458, 5680, 5441, 5462, 5461, 5383, 5321, 5620, 5495, 5435 (4 hits) 3
1	9	1.0	333.0	Yes	5523.0MHz, -64.0dBm	5707, 5665, 5561, 5446, 5494, 5469, 5277, 5509, 5422, 5386, 5322, 5496, 5682, 5689, 5336, 5692, 5273, 5269, 5398, 5329, 5305, 5611, 5602, 5630, 5566, 5449, 5290, 5441, 5272, 5320, 5297, 5258, 5684, 5376, 5461, 5679, 5264, 5467, 5618, 5274, 5433, 5500, 5605, 5359, 5664, 5713, 5311, 5403, 5263, 5413, 5477, 5598, 5675, 5489, 5388, 5286, 5453, 5450, 5399, 5485, 5434, 5524, 5695, 5411, 5554, 5412, 5681, 5586, 5452, 5392, 5578, 5573, 5658, 5625, 5642, 5465, 5637, 5660, 5504, 5259, 5702, 5666, 5705, 5499, 5267, 5640, 5668, 5368, 5574, 5285, 5317, 5346, 5479, 5613, 5435, 5447, 5528, 5487, 5531, 5408 (3 hits)
2	9	1.0	333.0	Yes	5524.0MHz, -64.0dBm	5463, 5706, 5376, 5356, 5674, 5460, 5281, 5613, 5627, 5384, 5581, 5374, 5357, 5359, 5408, 5383, 5658, 5686, 5513, 5532, 5616, 5702, 5301, 5691, 5608, 5711, 5266, 5666, 5484, 5522, 5445, 5431, 5367, 5466, 5312, 5548, 5309, 5524, 5402, 5498, 5663, 5362, 5368, 5609, 5612, 5571, 5696, 5588, 5495, 5567, 5491, 5284, 5392, 5308, 5650, 5456, 5274, 5680, 5397, 5334, 5678, 5635, 5436, 5507, 5405, 5626, 5545, 5464, 5505, 5560, 5378, 5496, 5421, 5346, 5326, 5487, 5310, 5410, 5544, 5275, 5652, 5659, 5425, 5535, 5638, 5579, 5630, 5419, 5254, 5422, 5360, 5329, 5385, 5504, 5670, 5428, 5343, 5339, 5273, 5268 (3 hits)
3	9	1.0	333.0	Yes	5525.0MHz, -64.0dBm	5595, 5268, 5592, 5375, 5333, 5499, 5259, 5485, 5438, 5343,

						5677, 5697, 5563, 5546, 5390, 5548, 5591, 5380, 5310, 5422, 5504, 5443, 5334, 5447, 5614, 5451, 5475, 5304, 5466, 5420, 5357, 5270, 5479, 5547, 5441, 5340, 5676, 5363, 5719, 5274, 5410, 5352, 5589, 5587, 5359, 5553, 5362, 5706, 5297, 5435, 5616, 5712, 5583, 5417, 5707, 5640, 5597, 5525, 5618, 5350, 5624, 5635, 5335, 5439, 5502, 5594, 5494, 5454, 5416, 5405, 5463, 5262, 5319, 5540, 5536, 5542, 5384, 5684, 5701, 5286, 5696, 5705, 5575, 5593, 5440, 5680, 5648, 5569, 5292, 5332, 5621, 5276, 5459, 5609, 5581, 5364, 5508, 5667, 5323, 5264 (2 hits)
4	9	1.0	333.0	Yes	5526.0MHz, -64.0dBm	5371, 5638, 5669, 5627, 5578, 5357, 5690, 5394, 5543, 5442, 5633, 5683, 5659, 5385, 5648, 5549, 5564, 5306, 5340, 5420, 5364, 5267, 5379, 5528, 5412, 5380, 5262, 5410, 5519, 5370, 5251, 5426, 5470, 5324, 5361, 5715, 5513, 5407, 5535, 5619, 5461, 5517, 5266, 5345, 5626, 5663, 5622, 5254, 5334, 5650, 5515, 5576, 5255, 5608, 5391, 5424, 5330, 5684, 5493, 5479, 5603, 5547, 5474, 5625, 5386, 5282, 5257, 5512, 5475, 5687, 5502, 5662, 5718, 5316, 5448, 5293, 5568, 5323, 5614, 5645, 5720, 5620, 5532, 5446, 5320, 5289, 5717, 5689, 5277, 5376, 5531, 5641, 5406, 5719, 5259, 5400, 5612, 5392, 5481, 5673 (4 hits)
5	9	1.0	333.0	Yes	5527.0MHz, -64.0dBm	5639, 5693, 5299, 5289, 5555, 5551, 5644, 5672, 5388, 5567, 5293, 5406, 5670, 5333, 5381, 5717, 5565, 5572, 5440, 5536, 5619, 5285, 5699, 5304, 5630, 5445, 5305, 5577, 5680, 5528, 5512, 5696, 5433, 5566, 5515, 5309, 5453, 5679, 5358, 5364, 5723, 5596, 5446, 5294, 5411, 5320, 5542, 5721, 5274, 5519, 5514, 5654, 5477, 5608, 5538, 5427, 5647, 5306, 5571, 5373, 5554, 5434, 5257, 5330, 5517, 5618, 5260, 5354, 5489, 5389, 5563, 5502, 5314, 5526, 5634, 5263, 5300, 5584, 5276, 5689, 5315, 5341, 5520, 5534, 5657, 5507, 5510, 5393, 5402, 5448, 5284, 5564, 5695, 5399, 5444,

						5329, 5450, 5408, 5541, 5635 (5 hits)
6	9	1.0	333.0	Yes	5528.0MHz, -64.0dBm	5581, 5340, 5692, 5453, 5349, 5657, 5444, 5435, 5470, 5396, 5639, 5417, 5278, 5447, 5405, 5423, 5573, 5250, 5666, 5650, 5448, 5591, 5403, 5418, 5352, 5400, 5509, 5513, 5712, 5619, 5626, 5724, 5522, 5707, 5571, 5646, 5363, 5534, 5311, 5658, 5459, 5529, 5270, 5391, 5388, 5430, 5640, 5503, 5436, 5525, 5689, 5544, 5256, 5643, 5526, 5669, 5540, 5507, 5284, 5497, 5576, 5362, 5394, 5517, 5422, 5601, 5562, 5370, 5496, 5457, 5261, 5725, 5343, 5264, 5375, 5718, 5432, 5268, 5555, 5322, 5325, 5308, 5670, 5355, 5473, 5518, 5678, 5698, 5402, 5255, 5446, 5499, 5535, 5701, 5472, 5461, 5629, 5294, 5528, 5553 (6 hits)
7	9	1.0	333.0	Yes	5529.0MHz, -64.0dBm	5557, 5425, 5564, 5361, 5700, 5578, 5588, 5659, 5328, 5291, 5498, 5303, 5561, 5716, 5682, 5394, 5505, 5531, 5343, 5356, 5574, 5312, 5257, 5381, 5610, 5250, 5322, 5627, 5324, 5669, 5719, 5715, 5577, 5675, 5624, 5307, 5492, 5398, 5497, 5665, 5286, 5651, 5483, 5615, 5707, 5397, 5677, 5363, 5258, 5445, 5496, 5595, 5308, 5368, 5393, 5352, 5486, 5611, 5558, 5512, 5309, 5448, 5464, 5511, 5444, 5631, 5331, 5289, 5573, 5256, 5341, 5518, 5340, 5656, 5626, 5482, 5376, 5723, 5318, 5634, 5456, 5646, 5365, 5288, 5474, 5268, 5306, 5364, 5271, 5276, 5305, 5388, 5285, 5622, 5701, 5299, 5253, 5534, 5325, 5657 (2 hits)
8	9	1.0	333.0	Yes	5530.0MHz, -64.0dBm	5631, 5662, 5410, 5542, 5402, 5407, 5418, 5589, 5644, 5391, 5724, 5347, 5356, 5671, 5533, 5291, 5495, 5696, 5455, 5423, 5622, 5621, 5549, 5511, 5674, 5401, 5317, 5518, 5413, 5493, 5652, 5688, 5602, 5720, 5656, 5684, 5468, 5565, 5269, 5567, 5285, 5420, 5711, 5313, 5284, 5543, 5501, 5466, 5630, 5322, 5398, 5531, 5304, 5584, 5633, 5434, 5691, 5464, 5540, 5506, 5312, 5376, 5591, 5293, 5321, 5499, 5433, 5320, 5702, 5716, 5270, 5689, 5310, 5603, 5522,

						5613, 5305, 5649, 5599, 5467, 5412, 5620, 5625, 5425, 5390, 5451, 5693, 5530, 5409, 5461, 5279, 5268, 5667, 5640, 5597, 5366, 5280, 5456, 5266, 5692 (3 hits)
9	9	1.0	333.0	Yes	5531.0MHz, -64.0dBm	5639, 5426, 5563, 5664, 5332, 5250, 5404, 5671, 5284, 5558, 5695, 5422, 5393, 5450, 5718, 5464, 5670, 5435, 5616, 5625, 5470, 5527, 5566, 5663, 5312, 5593, 5303, 5504, 5678, 5696, 5364, 5635, 5373, 5598, 5724, 5522, 5355, 5659, 5515, 5717, 5486, 5592, 5591, 5277, 5406, 5372, 5720, 5318, 5273, 5342, 5438, 5634, 5494, 5603, 5646, 5590, 5499, 5633, 5461, 5290, 5315, 5453, 5269, 5570, 5716, 5711, 5270, 5399, 5292, 5601, 5251, 5302, 5636, 5517, 5446, 5544, 5721, 5309, 5348, 5383, 5382, 5595, 5260, 5432, 5445, 5586, 5697, 5571, 5506, 5525, 5725, 5698, 5415, 5534, 5388, 5405, 5281, 5423, 5505, 5455 (3 hits)
10	9	1.0	333.0	Yes	5532.0MHz, -64.0dBm	5474, 5559, 5574, 5522, 5530, 5712, 5596, 5629, 5388, 5550, 5373, 5492, 5307, 5561, 5603, 5695, 5604, 5435, 5440, 5618, 5482, 5295, 5346, 5578, 5302, 5670, 5279, 5520, 5485, 5421, 5487, 5497, 5547, 5372, 5484, 5389, 5366, 5398, 5531, 5455, 5328, 5488, 5631, 5334, 5356, 5275, 5637, 5534, 5673, 5348, 5276, 5598, 5461, 5646, 5303, 5367, 5415, 5436, 5458, 5495, 5638, 5378, 5411, 5341, 5282, 5382, 5593, 5475, 5422, 5449, 5653, 5451, 5481, 5521, 5278, 5261, 5265, 5343, 5519, 5623, 5502, 5428, 5614, 5395, 5405, 5417, 5682, 5420, 5691, 5517, 5362, 5271, 5401, 5723, 5314, 5327, 5263, 5403, 5252, 5535 (4 hits)
11	9	1.0	333.0	Yes	5533.0MHz, -64.0dBm	5292, 5385, 5723, 5342, 5255, 5696, 5362, 5531, 5324, 5313, 5438, 5277, 5260, 5283, 5697, 5691, 5519, 5627, 5468, 5724, 5265, 5565, 5575, 5664, 5373, 5542, 5340, 5414, 5482, 5591, 5439, 5457, 5506, 5564, 5410, 5601, 5477, 5432, 5546, 5268, 5715, 5676, 5356, 5276, 5495, 5450, 5643, 5530, 5551, 5322, 5289, 5604, 5597, 5271, 5332,

						5686, 5706, 5673, 5630, 5359, 5409, 5316, 5416, 5585, 5405, 5345, 5561, 5570, 5462, 5656, 5695, 5489, 5714, 5421, 5496, 5264, 5437, 5515, 5469, 5543, 5392, 5321, 5566, 5694, 5701, 5648, 5504, 5639, 5365, 5672, 5435, 5671, 5501, 5301, 5651, 5645, 5334, 5562, 5606, 5599 (2 hits)
12	9	1.0	333.0	Yes	5534.0MHz, -64.0dBm	5639, 5541, 5320, 5521, 5594, 5709, 5560, 5559, 5286, 5663, 5261, 5694, 5364, 5509, 5445, 5497, 5603, 5517, 5708, 5581, 5494, 5547, 5622, 5500, 5516, 5415, 5515, 5255, 5368, 5278, 5380, 5298, 5540, 5648, 5698, 5374, 5646, 5427, 5273, 5398, 5321, 5387, 5334, 5477, 5297, 5352, 5627, 5596, 5344, 5430, 5561, 5531, 5643, 5409, 5562, 5685, 5552, 5638, 5358, 5336, 5338, 5343, 5716, 5588, 5501, 5388, 5306, 5678, 5569, 5383, 5617, 5538, 5666, 5404, 5376, 5467, 5595, 5433, 5715, 5592, 5554, 5328, 5421, 5449, 5367, 5299, 5357, 5463, 5390, 5703, 5432, 5582, 5602, 5319, 5598, 5304, 5600, 5668, 5265, 5345 (2 hits)
13	9	1.0	333.0	Yes	5535.0MHz, -64.0dBm	5515, 5715, 5619, 5611, 5688, 5301, 5506, 5594, 5558, 5574, 5713, 5716, 5489, 5269, 5691, 5441, 5590, 5538, 5642, 5677, 5297, 5551, 5509, 5406, 5330, 5518, 5532, 5467, 5402, 5646, 5644, 5408, 5431, 5718, 5399, 5514, 5443, 5725, 5264, 5629, 5616, 5578, 5265, 5577, 5277, 5686, 5674, 5519, 5480, 5280, 5622, 5598, 5434, 5521, 5613, 5364, 5375, 5635, 5442, 5591, 5346, 5544, 5641, 5555, 5315, 5274, 5658, 5331, 5293, 5466, 5304, 5324, 5478, 5454, 5389, 5426, 5291, 5384, 5496, 5678, 5306, 5336, 5447, 5668, 5511, 5372, 5368, 5362, 5609, 5423, 5380, 5682, 5671, 5535, 5270, 5554, 5255, 5388, 5685, 5666 (3 hits)
14	9	1.0	333.0	Yes	5536.0MHz, -64.0dBm	5534, 5377, 5446, 5473, 5519, 5311, 5356, 5418, 5704, 5515, 5476, 5448, 5435, 5652, 5610, 5693, 5535, 5469, 5286, 5329, 5413, 5415, 5250, 5279, 5382, 5550, 5666, 5548, 5271, 5472, 5533, 5262, 5430, 5613, 5713,

						5334, 5614, 5544, 5555, 5644, 5582, 5370, 5330, 5675, 5349, 5670, 5502, 5627, 5671, 5398, 5700, 5600, 5336, 5607, 5474, 5660, 5692, 5405, 5649, 5558, 5462, 5637, 5422, 5437, 5384, 5451, 5527, 5434, 5417, 5463, 5263, 5589, 5681, 5471, 5378, 5711, 5691, 5630, 5252, 5304, 5254, 5655, 5342, 5723, 5454, 5341, 5571, 5433, 5302, 5383, 5541, 5391, 5578, 5397, 5524, 5499, 5678, 5694, 5300, 5591 (5 hits)
15	9	1.0	333.0	Yes	5537.0MHz, -64.0dBm	5719, 5350, 5322, 5271, 5330, 5397, 5394, 5253, 5504, 5310, 5451, 5396, 5592, 5574, 5306, 5514, 5596, 5526, 5258, 5377, 5658, 5427, 5539, 5528, 5380, 5694, 5345, 5438, 5680, 5513, 5715, 5626, 5565, 5333, 5575, 5561, 5410, 5476, 5622, 5598, 5406, 5637, 5326, 5627, 5251, 5335, 5296, 5563, 5290, 5431, 5517, 5494, 5503, 5275, 5404, 5502, 5295, 5314, 5311, 5287, 5297, 5276, 5560, 5340, 5282, 5373, 5347, 5590, 5334, 5600, 5662, 5272, 5299, 5655, 5375, 5486, 5474, 5465, 5313, 5701, 5687, 5689, 5577, 5566, 5537, 5632, 5417, 5459, 5449, 5588, 5492, 5291, 5644, 5374, 5652, 5639, 5586, 5661, 5398, 5323 (3 hits)
16	9	1.0	333.0	Yes	5538.0MHz, -64.0dBm	5359, 5620, 5365, 5519, 5388, 5270, 5420, 5425, 5698, 5295, 5712, 5498, 5525, 5276, 5471, 5383, 5665, 5456, 5581, 5394, 5300, 5439, 5512, 5489, 5497, 5696, 5699, 5565, 5274, 5266, 5355, 5619, 5265, 5576, 5258, 5292, 5536, 5678, 5362, 5697, 5426, 5674, 5387, 5654, 5329, 5347, 5509, 5369, 5311, 5534, 5604, 5296, 5403, 5632, 5414, 5582, 5642, 5481, 5524, 5603, 5483, 5616, 5404, 5716, 5506, 5590, 5449, 5673, 5257, 5595, 5526, 5298, 5546, 5409, 5304, 5543, 5256, 5705, 5484, 5282, 5558, 5714, 5573, 5286, 5629, 5717, 5324, 5522, 5345, 5618, 5608, 5596, 5523, 5400, 5424, 5357, 5314, 5569, 5412, 5532 (7 hits)
17	9	1.0	333.0	Yes	5523.0MHz, -64.0dBm	5693, 5360, 5564, 5590, 5264, 5333, 5528, 5347, 5658, 5502, 5436, 5447, 5428, 5661, 5572,

						5716, 5290, 5624, 5698, 5685, 5379, 5510, 5302, 5442, 5710, 5457, 5261, 5602, 5356, 5647, 5274, 5270, 5671, 5349, 5474, 5719, 5363, 5319, 5429, 5275, 5399, 5597, 5522, 5386, 5623, 5380, 5420, 5367, 5328, 5426, 5322, 5398, 5254, 5309, 5359, 5538, 5565, 5700, 5394, 5499, 5464, 5547, 5530, 5493, 5441, 5462, 5723, 5527, 5424, 5491, 5396, 5361, 5423, 5299, 5312, 5269, 5694, 5259, 5387, 5495, 5568, 5567, 5563, 5288, 5392, 5684, 5689, 5662, 5660, 5286, 5593, 5682, 5492, 5517, 5265, 5696, 5310, 5674, 5271, 5549 (4 hits)
18	9	1.0	333.0	Yes	5524.0MHz, -64.0dBm	5305, 5681, 5480, 5473, 5506, 5591, 5429, 5722, 5256, 5709, 5412, 5270, 5614, 5581, 5315, 5714, 5259, 5690, 5650, 5642, 5290, 5458, 5723, 5459, 5251, 5325, 5496, 5571, 5302, 5364, 5428, 5427, 5691, 5461, 5630, 5489, 5262, 5677, 5486, 5392, 5420, 5347, 5676, 5653, 5609, 5351, 5526, 5622, 5648, 5583, 5263, 5470, 5562, 5406, 5585, 5578, 5697, 5507, 5662, 5685, 5414, 5527, 5400, 5621, 5654, 5313, 5663, 5522, 5587, 5268, 5422, 5645, 5265, 5688, 5651, 5582, 5413, 5602, 5300, 5554, 5336, 5281, 5492, 5455, 5381, 5323, 5396, 5513, 5699, 5411, 5540, 5703, 5616, 5438, 5594, 5502, 5376, 5352, 5453, 5566 (2 hits)
19	9	1.0	333.0	Yes	5525.0MHz, -64.0dBm	5563, 5718, 5624, 5706, 5251, 5550, 5266, 5376, 5416, 5574, 5496, 5584, 5630, 5524, 5489, 5571, 5303, 5349, 5667, 5653, 5650, 5566, 5683, 5508, 5383, 5253, 5503, 5378, 5339, 5588, 5407, 5424, 5507, 5447, 5464, 5614, 5543, 5526, 5628, 5399, 5405, 5289, 5525, 5463, 5346, 5641, 5294, 5442, 5499, 5305, 5395, 5692, 5488, 5523, 5265, 5558, 5490, 5657, 5553, 5422, 5605, 5393, 5603, 5302, 5504, 5705, 5602, 5365, 5454, 5640, 5659, 5616, 5688, 5452, 5469, 5527, 5347, 5340, 5689, 5325, 5329, 5313, 5702, 5618, 5254, 5709, 5648, 5506, 5668, 5256, 5380, 5322, 5317, 5319, 5500, 5455, 5493, 5273, 5384, 5665 (5 hits)

						hits)
20	9	1.0	333.0	Yes	5526.0MHz, -64.0dBm	5311, 5484, 5361, 5563, 5628, 5475, 5568, 5560, 5540, 5550, 5704, 5611, 5266, 5313, 5432, 5389, 5301, 5502, 5584, 5636, 5500, 5483, 5288, 5379, 5435, 5469, 5592, 5298, 5459, 5287, 5360, 5413, 5659, 5317, 5376, 5485, 5670, 5690, 5619, 5587, 5524, 5343, 5719, 5263, 5426, 5365, 5358, 5493, 5539, 5514, 5423, 5443, 5573, 5401, 5523, 5334, 5285, 5382, 5308, 5530, 5548, 5336, 5330, 5699, 5425, 5501, 5572, 5506, 5414, 5650, 5681, 5519, 5352, 5600, 5701, 5354, 5454, 5431, 5440, 5371, 5635, 5513, 5697, 5654, 5395, 5312, 5255, 5604, 5251, 5606, 5415, 5349, 5694, 5586, 5648, 5713, 5651, 5645, 5366, 5665 (3 hits)
21	9	1.0	333.0	Yes	5527.0MHz, -64.0dBm	5549, 5679, 5282, 5315, 5533, 5286, 5399, 5516, 5366, 5312, 5592, 5674, 5609, 5385, 5266, 5437, 5520, 5423, 5629, 5690, 5688, 5283, 5500, 5443, 5271, 5651, 5506, 5538, 5323, 5620, 5574, 5322, 5251, 5341, 5632, 5280, 5680, 5300, 5643, 5381, 5258, 5704, 5477, 5575, 5320, 5325, 5659, 5376, 5641, 5461, 5544, 5488, 5363, 5672, 5660, 5445, 5721, 5441, 5528, 5619, 5494, 5618, 5709, 5459, 5555, 5387, 5439, 5482, 5531, 5395, 5346, 5665, 5623, 5504, 5515, 5552, 5701, 5438, 5378, 5565, 5290, 5313, 5383, 5370, 5598, 5269, 5274, 5358, 5365, 5499, 5267, 5338, 5424, 5698, 5550, 5305, 5647, 5296, 5536, 5449 (5 hits)
22	9	1.0	333.0	Yes	5528.0MHz, -64.0dBm	5507, 5336, 5493, 5381, 5670, 5587, 5674, 5463, 5312, 5400, 5644, 5332, 5447, 5388, 5416, 5508, 5266, 5322, 5685, 5497, 5268, 5656, 5525, 5689, 5544, 5577, 5267, 5335, 5601, 5291, 5282, 5716, 5582, 5598, 5462, 5404, 5660, 5364, 5472, 5271, 5452, 5502, 5578, 5359, 5432, 5615, 5304, 5369, 5594, 5270, 5604, 5340, 5491, 5284, 5683, 5411, 5310, 5286, 5365, 5679, 5527, 5377, 5640, 5325, 5456, 5509, 5421, 5289, 5571, 5562, 5692, 5422, 5530, 5638, 5320, 5296, 5532, 5285, 5341, 5529,

						5540, 5610, 5699, 5639, 5380, 5607, 5448, 5719, 5712, 5543, 5642, 5436, 5433, 5482, 5278, 5314, 5574, 5324, 5481, 5725 (5 hits)
23	9	1.0	333.0	Yes	5529.0MHz, -64.0dBm	5369, 5664, 5319, 5711, 5291, 5257, 5463, 5532, 5491, 5416, 5625, 5593, 5342, 5591, 5689, 5606, 5692, 5694, 5635, 5392, 5435, 5325, 5289, 5443, 5367, 5345, 5432, 5313, 5699, 5461, 5438, 5698, 5587, 5370, 5397, 5260, 5473, 5379, 5362, 5376, 5506, 5458, 5480, 5693, 5306, 5373, 5543, 5459, 5314, 5679, 5514, 5588, 5378, 5616, 5576, 5293, 5347, 5364, 5354, 5365, 5642, 5283, 5517, 5447, 5498, 5261, 5500, 5316, 5464, 5507, 5305, 5539, 5384, 5483, 5268, 5592, 5301, 5502, 5271, 5446, 5508, 5530, 5583, 5477, 5383, 5452, 5519, 5253, 5567, 5687, 5409, 5343, 5282, 5709, 5337, 5623, 5604, 5456, 5297, 5398 (2 hits)
24	9	1.0	333.0	Yes	5530.0MHz, -64.0dBm	5333, 5317, 5673, 5658, 5707, 5416, 5484, 5376, 5478, 5377, 5665, 5614, 5595, 5537, 5617, 5272, 5352, 5612, 5336, 5594, 5691, 5646, 5413, 5504, 5294, 5636, 5653, 5635, 5687, 5545, 5657, 5295, 5535, 5640, 5429, 5463, 5498, 5593, 5642, 5487, 5686, 5702, 5631, 5588, 5505, 5356, 5421, 5714, 5466, 5430, 5298, 5697, 5391, 5331, 5538, 5693, 5268, 5585, 5667, 5481, 5632, 5309, 5666, 5692, 5512, 5449, 5263, 5552, 5409, 5661, 5655, 5408, 5326, 5694, 5399, 5674, 5567, 5441, 5316, 5721, 5456, 5400, 5281, 5266, 5508, 5453, 5719, 5618, 5468, 5428, 5613, 5325, 5518, 5375, 5577, 5323, 5497, 5532, 5660, 5471 (4 hits)
25	9	1.0	333.0	Yes	5531.0MHz, -64.0dBm	5366, 5569, 5658, 5687, 5451, 5509, 5703, 5305, 5263, 5707, 5544, 5430, 5277, 5370, 5688, 5561, 5268, 5482, 5499, 5522, 5611, 5269, 5629, 5666, 5311, 5351, 5590, 5300, 5464, 5466, 5615, 5691, 5272, 5252, 5274, 5424, 5677, 5533, 5420, 5501, 5665, 5327, 5643, 5602, 5617, 5637, 5474, 5397, 5613, 5632, 5541, 5702, 5682, 5655, 5568, 5368, 5457, 5349, 5452, 5531,

						5492, 5468, 5281, 5711, 5335, 5384, 5506, 5651, 5511, 5719, 5266, 5640, 5374, 5456, 5526, 5431, 5646, 5455, 5380, 5505, 5302, 5543, 5594, 5440, 5652, 5690, 5565, 5589, 5648, 5484, 5255, 5391, 5581, 5470, 5534, 5273, 5375, 5623, 5723, 5498 (4 hits)
26	9	1.0	333.0	Yes	5532.0MHz, -64.0dBm	5596, 5657, 5403, 5458, 5487, 5699, 5388, 5583, 5630, 5432, 5356, 5496, 5703, 5533, 5561, 5541, 5361, 5663, 5514, 5454, 5520, 5673, 5606, 5357, 5694, 5535, 5586, 5585, 5377, 5712, 5543, 5649, 5547, 5338, 5384, 5433, 5285, 5447, 5581, 5611, 5691, 5327, 5544, 5322, 5551, 5374, 5574, 5315, 5396, 5314, 5593, 5701, 5297, 5440, 5641, 5628, 5318, 5718, 5652, 5401, 5623, 5442, 5706, 5423, 5475, 5280, 5576, 5563, 5369, 5387, 5330, 5381, 5383, 5515, 5260, 5253, 5453, 5690, 5493, 5512, 5627, 5568, 5255, 5324, 5564, 5480, 5646, 5681, 5626, 5522, 5273, 5418, 5370, 5600, 5282, 5497, 5680, 5296, 5333, 5528 (3 hits)
27	9	1.0	333.0	Yes	5533.0MHz, -64.0dBm	5275, 5528, 5493, 5485, 5582, 5329, 5599, 5584, 5720, 5606, 5652, 5438, 5700, 5454, 5466, 5417, 5292, 5711, 5391, 5412, 5611, 5686, 5668, 5537, 5649, 5626, 5498, 5634, 5703, 5645, 5324, 5637, 5327, 5457, 5594, 5688, 5435, 5339, 5646, 5314, 5251, 5312, 5510, 5253, 5404, 5488, 5321, 5368, 5381, 5405, 5374, 5502, 5556, 5358, 5497, 5633, 5692, 5267, 5569, 5392, 5658, 5289, 5578, 5250, 5687, 5515, 5638, 5359, 5570, 5411, 5398, 5663, 5313, 5455, 5666, 5699, 5667, 5563, 5260, 5366, 5473, 5452, 5309, 5284, 5587, 5290, 5660, 5614, 5331, 5717, 5403, 5363, 5679, 5252, 5268, 5437, 5554, 5345, 5441, 5548 (2 hits)
28	9	1.0	333.0	Yes	5534.0MHz, -64.0dBm	5578, 5666, 5421, 5574, 5692, 5643, 5708, 5477, 5402, 5625, 5577, 5428, 5448, 5665, 5505, 5487, 5670, 5321, 5701, 5534, 5676, 5332, 5297, 5540, 5393, 5568, 5301, 5419, 5495, 5284, 5564, 5458, 5561, 5524, 5262, 5314, 5493, 5341, 5433, 5725,

						5438, 5251, 5309, 5549, 5323, 5566, 5546, 5498, 5506, 5392, 5483, 5415, 5698, 5425, 5521, 5288, 5636, 5478, 5695, 5639, 5718, 5461, 5606, 5283, 5597, 5347, 5668, 5717, 5559, 5329, 5395, 5632, 5442, 5296, 5260, 5502, 5431, 5622, 5295, 5621, 5697, 5556, 5339, 5537, 5389, 5417, 5400, 5569, 5371, 5675, 5490, 5353, 5680, 5555, 5572, 5645, 5525, 5688, 5482, 5305 (4 hits)
29	9	1.0	333.0	Yes	5535.0MHz, -64.0dBm	5355, 5676, 5427, 5436, 5672, 5457, 5595, 5622, 5491, 5541, 5633, 5687, 5519, 5364, 5448, 5416, 5629, 5509, 5586, 5421, 5387, 5539, 5381, 5294, 5648, 5259, 5674, 5468, 5546, 5696, 5589, 5469, 5705, 5269, 5337, 5279, 5255, 5430, 5573, 5262, 5361, 5593, 5439, 5699, 5317, 5606, 5709, 5549, 5504, 5701, 5250, 5407, 5710, 5322, 5562, 5516, 5435, 5703, 5268, 5653, 5568, 5369, 5434, 5408, 5467, 5566, 5282, 5603, 5365, 5374, 5422, 5497, 5684, 5450, 5405, 5392, 5366, 5502, 5596, 5412, 5458, 5609, 5290, 5368, 5295, 5613, 5358, 5530, 5558, 5625, 5698, 5592, 5623, 5561, 5453, 5335, 5533, 5522, 5540, 5498 (2 hits)
30	9	1.0	333.0	Yes	5536.0MHz, -64.0dBm	5605, 5623, 5488, 5321, 5348, 5429, 5657, 5625, 5280, 5372, 5349, 5379, 5400, 5543, 5383, 5486, 5567, 5401, 5592, 5297, 5335, 5402, 5360, 5456, 5580, 5347, 5453, 5354, 5628, 5721, 5295, 5660, 5720, 5381, 5692, 5346, 5579, 5672, 5690, 5673, 5629, 5722, 5410, 5289, 5542, 5322, 5457, 5442, 5472, 5378, 5711, 5458, 5356, 5266, 5279, 5415, 5619, 5616, 5389, 5377, 5704, 5337, 5303, 5522, 5667, 5338, 5320, 5508, 5630, 5416, 5604, 5518, 5424, 5451, 5324, 5573, 5622, 5367, 5498, 5368, 5265, 5587, 5718, 5566, 5695, 5659, 5680, 5462, 5490, 5390, 5655, 5596, 5706, 5693, 5484, 5581, 5286, 5578, 5374, 5538 (1 hits)
31	9	1.0	333.0	Yes	5537.0MHz, -64.0dBm	5482, 5706, 5633, 5418, 5285, 5457, 5692, 5401, 5436, 5368, 5594, 5677, 5327, 5263, 5508, 5394, 5685, 5678, 5623, 5343,

						5272, 5689, 5701, 5521, 5538, 5566, 5635, 5371, 5473, 5362, 5559, 5270, 5353, 5613, 5575, 5385, 5404, 5479, 5656, 5337, 5355, 5361, 5665, 5380, 5601, 5472, 5671, 5533, 5402, 5550, 5438, 5435, 5708, 5681, 5309, 5591, 5573, 5307, 5347, 5532, 5364, 5257, 5464, 5687, 5301, 5679, 5429, 5363, 5324, 5544, 5721, 5611, 5452, 5430, 5658, 5467, 5654, 5465, 5291, 5711, 5667, 5564, 5256, 5495, 5640, 5336, 5577, 5602, 5298, 5572, 5369, 5428, 5434, 5578, 5569, 5321, 5511, 5588, 5294, 5693 (3 hits)
32	9	1.0	333.0	Yes	5538.0MHz, -64.0dBm	5663, 5352, 5518, 5361, 5460, 5585, 5520, 5363, 5405, 5369, 5616, 5285, 5573, 5343, 5697, 5416, 5265, 5556, 5378, 5602, 5505, 5429, 5695, 5404, 5719, 5569, 5457, 5568, 5651, 5691, 5631, 5646, 5480, 5605, 5660, 5395, 5478, 5499, 5680, 5687, 5291, 5467, 5496, 5535, 5583, 5519, 5475, 5590, 5673, 5424, 5621, 5675, 5271, 5274, 5591, 5574, 5268, 5721, 5259, 5394, 5257, 5629, 5347, 5712, 5627, 5445, 5635, 5365, 5258, 5567, 5647, 5476, 5408, 5356, 5599, 5308, 5714, 5592, 5358, 5355, 5688, 5512, 5606, 5637, 5529, 5469, 5392, 5295, 5570, 5555, 5662, 5705, 5479, 5537, 5276, 5604, 5609, 5468, 5692, 5524 (4 hits)

Table 45 - Long Sequence Waveform Summary

Long Sequence Trial	Result	Radar Frequency / Amplitude
Trial #1	Detected	5530.0MHz, -64.0dBm
Trial #2	Detected	5530.0MHz, -64.0dBm
Trial #3	Detected	5530.0MHz, -64.0dBm
Trial #4	Detected	5530.0MHz, -64.0dBm
Trial #5	Detected	5530.0MHz, -64.0dBm
Trial #6	Detected	5530.0MHz, -64.0dBm
Trial #7	Detected	5530.0MHz, -64.0dBm
Trial #8	Detected	5530.0MHz, -64.0dBm

Trial #9	Detected	5530.0MHz, -64.0dBm
Trial #10	Detected	5530.0MHz, -64.0dBm
Trial #11	Detected	5530.0MHz, -64.0dBm
Trial #12	Detected	5530.0MHz, -64.0dBm
Trial #13	Detected	5530.0MHz, -64.0dBm
Trial #14	Detected	5530.0MHz, -64.0dBm
Trial #15	Detected	5530.0MHz, -64.0dBm
Trial #16	Detected	5530.0MHz, -64.0dBm
Trial #17	Detected	5530.0MHz, -64.0dBm
Trial #18	Detected	5530.0MHz, -64.0dBm
Trial #19	Detected	5530.0MHz, -64.0dBm
Trial #20	Detected	5530.0MHz, -64.0dBm
Trial #21	Detected	5530.0MHz, -64.0dBm
Trial #22	Detected	5530.0MHz, -64.0dBm
Trial #23	Detected	5530.0MHz, -64.0dBm
Trial #24	Detected	5530.0MHz, -64.0dBm
Trial #25	Detected	5530.0MHz, -64.0dBm
Trial #26	Detected	5530.0MHz, -64.0dBm
Trial #27	Detected	5530.0MHz, -64.0dBm
Trial #28	Detected	5530.0MHz, -64.0dBm
Trial #29	Detected	5530.0MHz, -64.0dBm
Trial #30	Detected	5530.0MHz, -64.0dBm

Table 46 - Long Sequence Waveform Trial#1 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	99.0	9	1118.0	-	0.161011
1	3	72.1	14	1066.0	1334.0	0.990486
2	2	63.5	8	1688.0	-	1.719244
3	2	56.7	15	1172.0	-	2.456039
4	2	84.8	6	1010.0	-	3.035760
5	2	61.6	15	1853.0	-	3.644972
6	2	96.1	8	1832.0	-	4.408203
7	1	81.8	9	-	-	4.546028

8	2	66.3	9	1617.0	-	5.567518
9	2	75.1	14	1955.0	-	6.167457
10	2	54.8	16	1711.0	-	6.473963
11	3	99.2	5	1740.0	1795.0	7.244762
12	3	51.4	5	1226.0	1794.0	8.087607
13	3	60.1	12	1650.0	1752.0	8.788076
14	2	75.2	15	1010.0	-	9.136473
15	3	84.7	13	1836.0	1679.0	9.669760
16	2	80.2	11	1144.0	-	10.502615
17	1	79.4	11	-	-	10.968057
18	2	80.0	17	1521.0	-	11.458758

Table 47 - 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	61.2	9	1184.0	1238.0	0.189586
1	2	53.5	18	1499.0	-	0.677594
2	2	84.0	10	1358.0	-	1.277059
3	2	73.9	11	1942.0	-	1.986787
4	2	67.9	7	1185.0	-	3.126474
5	1	78.9	15	-	-	3.705612
6	3	53.0	10	1998.0	1899.0	3.913644
7	3	86.0	7	1490.0	1733.0	4.922711
8	1	74.9	14	-	-	5.094694
9	2	89.6	20	1046.0	-	5.812167
10	2	75.6	8	1660.0	-	6.413486
11	2	77.9	6	1066.0	-	7.150736
12	3	96.2	16	1477.0	1172.0	8.092932
13	2	75.4	7	1434.0	-	8.655534
14	2	83.6	18	1652.0	-	9.199403
15	1	62.4	10	-	-	9.983059
16	3	95.5	11	1529.0	1279.0	10.285745
17	2	67.6	16	1425.0	-	10.944887
18	1	74.2	15	-	-	11.443683

Table 48 - 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	61.0	7	1429.0	-	0.267104
1	1	58.6	10	-	-	1.365039
2	2	55.5	7	1905.0	-	2.194327
3	1	81.7	6	-	-	3.976518
4	1	50.7	18	-	-	5.009684
5	2	88.6	15	1871.0	-	5.701094
6	2	99.3	9	1153.0	-	6.798338
7	1	94.5	18	-	-	8.227656
8	1	74.0	6	-	-	9.311664
9	2	50.3	12	1266.0	-	10.213400
10	2	70.8	11	1425.0	-	10.980102

Table 49 - 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)
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0	3	96.5	13	1418.0	1448.0	0.099291
1	1	80.3	17	-	-	0.999553
2	1	55.7	13	-	-	1.238688
3	2	67.4	10	1347.0	-	2.291210
4	1	80.1	14	-	-	2.606285
5	3	97.9	8	1037.0	1315.0	3.080600
6	2	94.8	9	1608.0	-	4.015124
7	2	55.3	17	1100.0	-	4.278958
8	2	99.3	15	1049.0	-	5.192123
9	1	88.3	7	-	-	5.843020
10	3	57.2	20	1562.0	1004.0	6.246695
11	1	87.8	6	-	-	6.696142
12	2	52.2	19	1170.0	-	7.720046
13	1	62.9	9	-	-	7.972744
14	2	51.3	7	1324.0	-	8.696906
15	3	81.5	15	1413.0	1550.0	9.103172
16	1	55.0	11	-	-	10.090187
17	2	65.0	20	1386.0	-	10.368043
18	3	64.4	14	1213.0	1937.0	10.965733
19	3	75.3	17	1095.0	1529.0	11.760997

Table 50 - 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	2	94.0	8	1784.0	-	0.505685
1	1	63.3	15	-	-	1.662424
2	2	57.6	9	1387.0	-	2.494390
3	3	69.4	13	1873.0	1331.0	3.504245
4	2	67.8	6	1151.0	-	5.010114
5	2	64.8	9	1080.0	-	6.014625
6	1	75.2	19	-	-	7.556560
7	3	95.1	20	1201.0	1747.0	7.810697
8	2	52.6	11	1553.0	-	9.586571
9	3	54.6	17	1975.0	1781.0	9.982941
10	3	64.7	12	1359.0	1136.0	11.203315

Table 51 - 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	1	82.2	9	-	-	0.155775
1	1	74.9	6	-	-	1.291246
2	3	79.2	19	1828.0	1810.0	1.892767
3	2	91.0	7	1372.0	-	2.521647
4	1	72.2	18	-	-	3.416668
5	2	99.9	5	1074.0	-	3.707267
6	1	81.3	19	-	-	4.406458
7	2	75.1	20	1187.0	-	5.598590
8	2	86.4	16	1460.0	-	6.313264
9	2	55.1	6	1404.0	-	6.425815
10	2	67.3	12	1685.0	-	7.538104
11	3	74.9	12	1966.0	1323.0	8.179082
12	3	89.5	17	1650.0	1452.0	8.980433
13	2	53.5	8	1423.0	-	9.831497
14	3	89.7	10	1199.0	1562.0	10.325949

15	2	88.2	19	1631.0	-	10.972245
16	2	79.9	6	1612.0	-	11.314350

Table 52 - 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	74.1	7	-	-	0.928554
1	3	50.7	9	1941.0	1138.0	1.634670
2	3	92.3	6	1590.0	1901.0	2.921494
3	3	66.8	10	1007.0	1571.0	3.149879
4	1	86.3	16	-	-	4.666624
5	1	95.2	17	-	-	5.483772
6	1	58.4	14	-	-	6.117274
7	3	50.3	6	1281.0	1249.0	7.405878
8	2	87.4	11	1694.0	-	8.678412
9	3	89.5	16	1708.0	1438.0	9.457825
10	3	95.3	15	1014.0	1371.0	10.198093
11	3	99.5	9	1029.0	1974.0	11.599128

Table 53 - 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	51.9	10	1621.0	-	0.849671
1	1	89.6	14	-	-	1.330843
2	2	73.8	5	1216.0	-	2.393928
3	2	93.7	12	1053.0	-	3.065258
4	2	58.8	13	1875.0	-	3.989784
5	1	75.1	12	-	-	5.209566
6	2	84.5	15	1623.0	-	6.189801
7	1	58.7	19	-	-	6.782780
8	2	95.1	13	1040.0	-	7.418526
9	3	53.9	15	1305.0	1162.0	8.798201
10	2	61.8	9	1862.0	-	10.134624
11	3	86.3	15	1108.0	1300.0	10.311741
12	1	95.5	10	-	-	11.621752

Table 54 - 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	76.5	14	1394.0	-	0.581359
1	2	90.5	13	1825.0	-	1.429835
2	3	91.5	18	1023.0	1424.0	2.441291
3	2	94.7	11	1406.0	-	2.798639
4	2	86.1	16	1915.0	-	4.099985
5	2	89.6	10	1326.0	-	4.592289
6	1	88.5	13	-	-	5.629015
7	2	51.8	7	1379.0	-	6.098093
8	1	50.6	11	-	-	7.423726
9	1	69.0	16	-	-	7.825903
10	1	91.9	12	-	-	8.954421
11	2	50.5	19	1211.0	-	9.448227
12	3	77.8	16	1145.0	1770.0	10.526434
13	1	61.4	10	-	-	11.216928

Table 55 - 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	55.6	13	1664.0	-	0.054818
1	2	69.9	8	1110.0	-	0.953425
2	3	95.1	15	1627.0	1395.0	1.629538
3	3	97.1	12	1659.0	1610.0	2.803765
4	2	96.3	20	1862.0	-	3.877275
5	3	63.7	15	1944.0	1942.0	4.136673
6	2	81.0	18	1498.0	-	5.253507
7	1	90.8	11	-	-	6.168977
8	2	50.9	9	1818.0	-	7.168717
9	2	92.6	7	1991.0	-	7.824397
10	2	64.1	18	1753.0	-	8.481637
11	1	75.1	14	-	-	9.592645
12	2	87.7	19	1439.0	-	9.792689
13	3	56.8	12	1433.0	1580.0	10.695175
14	3	69.7	9	1761.0	1988.0	11.366545

Table 56 - 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	2	99.9	15	1375.0	-	0.757082
1	2	74.2	12	1194.0	-	1.269960
2	2	54.5	18	1030.0	-	3.225113
3	2	85.4	7	1834.0	-	3.669103
4	2	67.3	13	1326.0	-	4.588724
5	3	99.2	7	1574.0	1241.0	6.203072
6	3	76.0	14	1530.0	1953.0	7.453448
7	3	78.8	10	1954.0	1926.0	8.048281
8	3	65.2	19	1538.0	1420.0	9.695866
9	1	51.0	11	-	-	9.875496
10	1	97.5	5	-	-	11.953553

Table 57 - 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	89.3	18	1580.0	-	0.419557
1	1	75.1	18	-	-	1.772331
2	1	85.0	17	-	-	2.461371
3	3	93.0	9	1390.0	1356.0	3.260149
4	2	94.6	8	1071.0	-	4.436977
5	3	60.6	9	1139.0	1234.0	5.179636
6	2	51.9	8	1373.0	-	6.822505
7	2	93.4	19	1658.0	-	7.951391
8	3	53.2	6	1533.0	1616.0	8.014129
9	2	87.7	8	1822.0	-	9.146548
10	2	53.1	7	1495.0	-	10.470825
11	2	80.2	18	1604.0	-	11.124858

Table 58 - 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	3	60.4	15	1845.0	1680.0	0.308041
1	1	58.7	14	-	-	0.860881
2	2	69.0	20	1902.0	-	1.725778
3	2	77.1	10	1847.0	-	2.887774
4	2	68.1	18	1715.0	-	3.689028
5	3	89.7	10	1554.0	1272.0	4.155767
6	2	91.9	15	1408.0	-	4.918151
7	1	64.4	8	-	-	5.833672
8	2	63.8	6	1816.0	-	6.220252
9	1	62.0	10	-	-	7.070847
10	2	80.5	12	1212.0	-	7.840904
11	3	82.8	14	1188.0	1351.0	8.784246
12	2	71.6	13	1751.0	-	9.653292
13	3	50.9	14	1560.0	1621.0	10.476285
14	2	72.0	19	1005.0	-	10.809066
15	2	86.8	12	1383.0	-	11.673848

Table 59 - 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	1	80.3	5	-	-	0.257713
1	2	68.9	12	1514.0	-	0.866657
2	2	87.5	8	1237.0	-	2.037012
3	2	72.7	8	1911.0	-	2.691880
4	1	76.0	6	-	-	3.290088
5	2	94.4	18	1660.0	-	4.636984
6	2	60.3	8	1731.0	-	5.288262
7	2	69.6	6	1460.0	-	6.393556
8	2	89.8	12	1791.0	-	6.755698
9	2	66.6	10	1136.0	-	7.658326
10	2	69.5	7	1533.0	-	8.784869
11	2	60.8	16	1507.0	-	9.035487
12	3	90.0	19	1795.0	1856.0	10.348196
13	2	76.8	11	1845.0	-	11.010878
14	1	73.2	12	-	-	11.529373

Table 60 - 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	3	94.9	14	1814.0	1103.0	0.043103
1	3	99.4	19	1386.0	1375.0	1.498589
2	2	87.4	8	1459.0	-	2.347072
3	2	53.8	16	1812.0	-	2.959631
4	2	72.4	8	1744.0	-	3.905769
5	1	90.5	11	-	-	4.177538
6	3	70.4	17	1266.0	1978.0	5.109311
7	2	81.0	12	1723.0	-	6.360865
8	3	99.8	13	1235.0	1906.0	6.896655
9	3	53.2	5	1902.0	1689.0	7.809335
10	3	84.1	9	1120.0	1267.0	8.506623
11	2	57.6	18	1752.0	-	9.081676

12	2	76.4	19	1422.0	-	9.797461
13	2	88.3	19	1574.0	-	10.653645
14	2	84.8	14	1489.0	-	11.779077

Table 61 - 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	1	83.2	19	-	-	0.249451
1	2	54.1	7	1958.0	-	0.918202
2	2	83.1	17	1685.0	-	1.906829
3	2	89.6	17	1829.0	-	2.813371
4	1	87.1	17	-	-	3.475002
5	1	87.2	6	-	-	4.051458
6	2	63.0	16	1714.0	-	5.058340
7	1	77.9	8	-	-	5.788942
8	2	98.7	16	1629.0	-	6.533663
9	1	74.9	17	-	-	6.903730
10	3	57.1	9	1577.0	1768.0	7.546132
11	1	63.4	15	-	-	8.516157
12	2	57.8	9	1468.0	-	9.284417
13	3	53.6	19	1331.0	1747.0	10.068122
14	2	85.2	9	1022.0	-	10.861214
15	3	90.6	7	1528.0	1540.0	11.252116

Table 62 - 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	1	78.9	7	-	-	0.238074
1	3	97.0	16	1596.0	1734.0	1.257537
2	3	50.8	8	1591.0	1149.0	1.723829
3	2	53.6	16	1895.0	-	2.437029
4	3	53.8	17	1559.0	1538.0	3.395108
5	1	84.6	17	-	-	3.759389
6	3	72.9	11	1479.0	1028.0	4.770786
7	2	83.4	6	1481.0	-	5.267082
8	1	76.2	5	-	-	6.089533
9	2	75.9	7	1053.0	-	7.199595
10	2	61.5	15	1492.0	-	7.752210
11	2	71.7	18	1507.0	-	8.880761
12	2	73.8	17	1750.0	-	9.167107
13	1	57.7	10	-	-	9.950171
14	3	64.0	13	1498.0	1191.0	10.833667
15	2	56.9	12	1246.0	-	11.956795

Table 63 - 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	2	55.7	6	1593.0	-	0.591715
1	1	52.0	16	-	-	1.646609
2	2	85.7	7	1467.0	-	2.739177
3	2	62.2	8	1565.0	-	3.625271
4	2	58.1	9	1052.0	-	4.745853
5	2	72.2	5	1623.0	-	5.590477

6	3	73.4	15	1715.0	1195.0	6.706276
7	3	63.2	8	1080.0	1347.0	7.831175
8	1	70.8	17	-	-	8.932892
9	3	54.2	14	1771.0	1960.0	9.588477
10	1	51.9	18	-	-	10.576175
11	1	98.0	10	-	-	11.956629

Table 64 - 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	58.4	16	1691.0	-	0.368701
1	1	71.4	18	-	-	0.965687
2	2	66.0	11	1091.0	-	2.265103
3	1	63.1	16	-	-	3.301603
4	2	65.8	18	1994.0	-	3.959119
5	2	55.7	17	1014.0	-	4.996351
6	3	76.4	19	1005.0	1390.0	5.520358
7	1	63.7	13	-	-	6.601533
8	2	65.5	11	1151.0	-	7.623886
9	3	92.0	14	1427.0	1753.0	7.790098
10	1	91.5	14	-	-	9.417723
11	2	58.6	9	1111.0	-	9.727056
12	1	78.6	13	-	-	10.332232
13	1	95.0	13	-	-	11.590085

Table 65 - 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	63.6	5	1414.0	-	0.836371
1	2	50.9	19	1656.0	-	1.629272
2	3	67.8	13	1592.0	1881.0	2.354254
3	2	96.4	9	1259.0	-	3.356454
4	2	97.9	19	1845.0	-	4.984126
5	2	57.1	18	1874.0	-	6.136172
6	2	52.7	11	1501.0	-	7.033016
7	3	93.4	19	1334.0	1854.0	7.843968
8	2	95.0	6	1077.0	-	9.350865
9	3	59.3	9	1741.0	1869.0	10.610761
10	1	54.4	7	-	-	11.637898

Table 66 - 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	2	72.2	7	1384.0	-	0.102022
1	2	92.6	20	1090.0	-	1.060386
2	3	50.3	13	1716.0	1470.0	2.709047
3	2	88.2	17	1238.0	-	3.435627
4	1	85.3	5	-	-	3.961301
5	2	51.3	9	1596.0	-	5.174679
6	2	87.8	8	1586.0	-	6.001131
7	3	77.6	7	1735.0	1358.0	6.687481
8	3	69.6	10	1669.0	1168.0	7.847095
9	1	64.0	6	-	-	8.601631

10	1	65.4	5	-	-	9.353762
11	3	82.7	13	1523.0	1828.0	10.921767
12	2	80.8	15	1815.0	-	11.779100

Table 67 - 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	2	57.9	9	1833.0	-	0.004582
1	2	65.5	17	1967.0	-	1.120848
2	3	94.1	16	1275.0	1835.0	1.896031
3	2	76.6	8	1976.0	-	2.145262
4	2	67.6	6	1924.0	-	2.773285
5	1	52.5	9	-	-	3.748085
6	2	73.3	6	1936.0	-	4.475430
7	1	51.2	9	-	-	5.003412
8	3	97.4	11	1473.0	1181.0	5.438301
9	2	88.1	10	1258.0	-	6.386480
10	3	92.4	7	1670.0	1286.0	6.931314
11	2	77.1	10	1528.0	-	7.997228
12	2	83.6	6	1630.0	-	8.126172
13	3	76.0	12	1526.0	1543.0	8.816392
14	2	69.2	17	1923.0	-	9.818837
15	1	58.1	12	-	-	10.009305
16	3	88.4	12	1102.0	1589.0	11.297847
17	2	57.9	8	1534.0	-	11.652042

Table 68 - 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	3	98.8	19	1691.0	1420.0	0.184827
1	2	73.1	10	1558.0	-	1.417055
2	1	79.6	15	-	-	2.614085
3	2	82.6	12	1372.0	-	2.964741
4	1	65.7	6	-	-	4.248366
5	3	67.7	15	1070.0	1396.0	5.082375
6	3	79.3	14	1418.0	1415.0	5.828632
7	2	91.3	16	1895.0	-	7.256976
8	2	87.9	14	1604.0	-	7.629010
9	1	87.4	10	-	-	8.363485
10	3	66.6	7	1310.0	1805.0	9.451899
11	3	83.1	14	1203.0	1115.0	10.687554
12	3	86.2	19	1607.0	1589.0	11.394955

Table 69 - 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	1	74.9	19	-	-	0.187326
1	3	60.3	11	1606.0	1653.0	1.096109
2	2	61.0	14	1586.0	-	2.142884
3	1	52.6	5	-	-	3.003475
4	3	92.6	15	1495.0	1145.0	4.440023
5	2	51.1	9	1086.0	-	5.224801
6	2	70.2	10	1945.0	-	6.407402

7	2	89.2	16	1181.0	-	6.975282
8	3	54.5	18	1489.0	1773.0	7.619860
9	3	50.3	15	1699.0	1331.0	8.543574
10	1	85.6	15	-	-	9.764963
11	2	61.6	13	1814.0	-	10.348073
12	2	84.7	18	1419.0	-	11.944890

Table 70 - 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	1	94.6	6	-	-	0.028569
1	2	77.1	9	1270.0	-	0.788347
2	3	65.1	17	1434.0	1328.0	1.579460
3	2	53.9	6	1478.0	-	2.312908
4	2	65.6	18	1987.0	-	3.085811
5	2	50.2	19	1231.0	-	4.415505
6	3	86.8	7	1361.0	1362.0	5.103985
7	2	64.2	17	1752.0	-	5.291173
8	1	63.9	17	-	-	6.672356
9	3	53.4	17	1314.0	1680.0	6.884771
10	3	54.7	6	1744.0	1580.0	8.117146
11	2	79.9	16	1340.0	-	8.642591
12	1	69.8	18	-	-	9.040742
13	2	98.4	8	1068.0	-	10.142732
14	2	50.5	14	1264.0	-	10.803037
15	2	58.7	9	1459.0	-	11.711857

Table 71 - 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	1	55.5	18	-	-	0.341138
1	1	61.6	16	-	-	1.569738
2	2	74.0	20	1893.0	-	2.028981
3	2	60.3	12	1451.0	-	3.038536
4	1	64.5	8	-	-	4.081580
5	1	80.6	20	-	-	4.627014
6	2	96.0	8	1553.0	-	5.431306
7	2	82.2	15	1948.0	-	6.556049
8	1	62.5	9	-	-	7.549473
9	1	81.5	15	-	-	7.870210
10	2	82.6	8	1264.0	-	9.074168
11	1	88.7	11	-	-	9.974383
12	2	88.4	17	1429.0	-	11.105326
13	2	54.5	13	1238.0	-	11.820631

Table 72 - 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	3	61.8	7	1105.0	1424.0	0.345177
1	3	91.1	10	1585.0	1271.0	1.330324
2	2	62.0	19	1584.0	-	2.016038
3	3	85.0	18	1370.0	1836.0	2.304380
4	1	90.4	7	-	-	3.678215

5	1	92.6	12	-	-	3.832341
6	3	57.3	12	1104.0	1561.0	4.687106
7	2	77.1	12	1722.0	-	5.498919
8	1	71.5	10	-	-	6.349031
9	2	54.1	12	1193.0	-	7.308313
10	1	79.1	9	-	-	7.504324
11	2	80.5	12	1149.0	-	8.399216
12	1	77.5	13	-	-	9.471402
13	3	86.0	7	1937.0	1764.0	10.238911
14	1	57.7	5	-	-	11.029876
15	2	83.2	11	1693.0	-	11.799277

Table 73 - 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	1	50.1	7	-	-	0.466804
1	3	53.6	17	1931.0	1575.0	1.054453
2	1	66.5	8	-	-	1.464956
3	2	93.5	20	1586.0	-	2.030923
4	2	70.6	10	1408.0	-	2.668697
5	1	78.6	18	-	-	3.493274
6	3	63.9	13	1609.0	1061.0	4.526861
7	3	69.7	6	1663.0	1845.0	5.318225
8	2	96.1	13	1894.0	-	5.506594
9	2	86.7	16	1993.0	-	6.337331
10	2	93.0	17	1618.0	-	6.804273
11	2	82.7	13	1685.0	-	7.679251
12	1	82.3	8	-	-	8.075865
13	3	76.5	12	1024.0	1750.0	9.062164
14	2	60.7	12	1608.0	-	9.565238
15	2	83.0	6	1838.0	-	10.076671
16	2	76.8	19	1521.0	-	11.159250
17	2	79.6	11	1112.0	-	11.740864

Table 74 - 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	2	61.1	10	1226.0	-	0.614273
1	2	52.8	18	1249.0	-	1.048150
2	1	59.3	10	-	-	1.861805
3	2	68.1	7	1942.0	-	1.943954
4	3	69.3	13	1398.0	1157.0	3.089878
5	2	94.3	9	1156.0	-	3.768352
6	1	89.4	17	-	-	4.074408
7	2	97.8	9	1569.0	-	4.780393
8	1	86.4	11	-	-	5.373163
9	1	64.8	7	-	-	5.703703
10	3	99.1	10	1970.0	1087.0	6.434603
11	1	91.7	6	-	-	7.133890
12	3	58.3	7	1099.0	1820.0	7.712054
13	2	59.5	19	1889.0	-	8.437884
14	3	63.0	9	1074.0	1164.0	9.154544
15	2	64.8	14	1838.0	-	9.543994
16	3	76.6	6	1367.0	1071.0	10.219913

17	3	62.4	16	1902.0	1007.0	10.911940
18	2	62.3	5	1859.0	-	11.506257

Table 75 - Long Sequence Waveform Trial#30 (Detected)

Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
0	2	65.9	11	1230.0	-	0.244430
1	3	95.6	8	1184.0	1391.0	1.253764
2	2	90.4	19	1074.0	-	2.230611
3	1	70.2	19	-	-	3.071662
4	1	71.7	11	-	-	3.321849
5	3	79.9	18	1775.0	1396.0	4.667386
6	3	64.1	15	1618.0	1800.0	4.821012
7	3	92.3	6	1093.0	1322.0	5.870126
8	1	85.4	17	-	-	6.450925
9	1	87.9	7	-	-	7.225473
10	2	50.1	19	1463.0	-	8.412194
11	1	87.5	7	-	-	9.109594
12	2	55.1	5	1001.0	-	10.107858
13	3	71.6	18	1265.0	1191.0	10.916579
14	3	86.9	12	1049.0	1090.0	11.823567

Appendix D Test Data Tables and Plots for Channel Closing (Master Device)**FCC PART 15 SUBPART E & RSS-210 DATA**

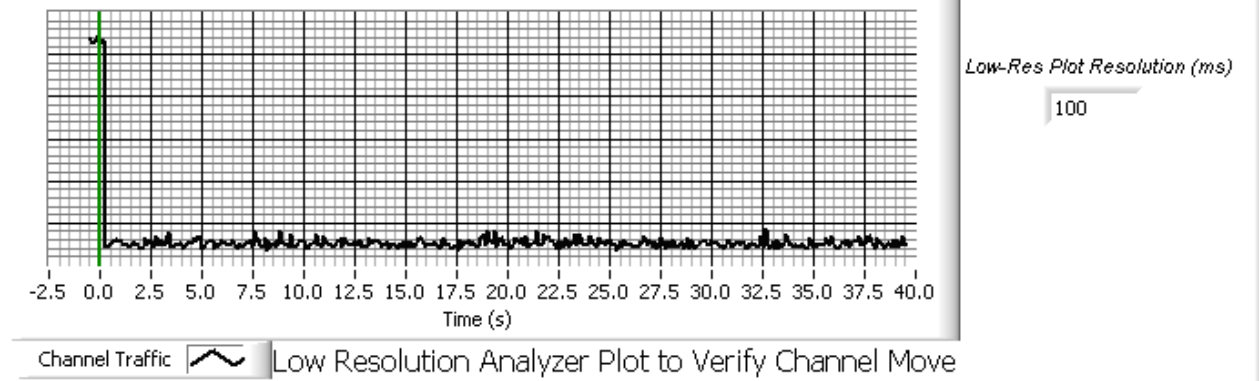
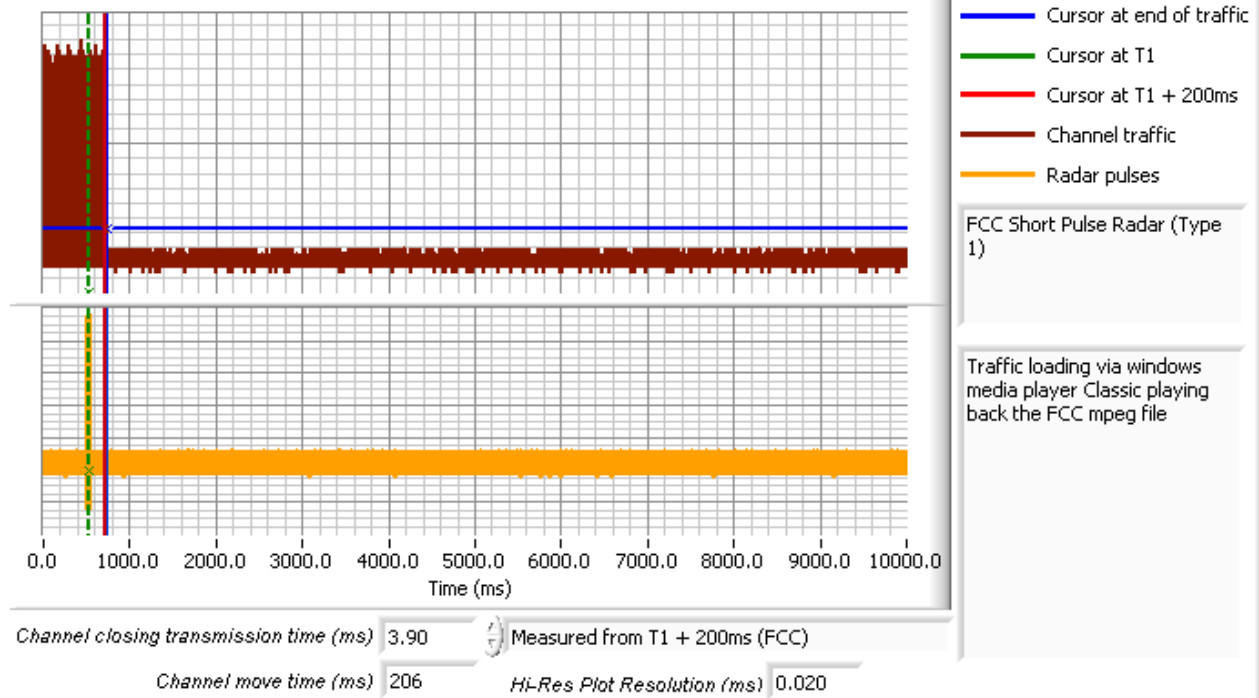
Waveform Type	Channel Closing Transmission Time ¹		Channel Move Time		Result
	Measured	Limit	Measured	Limit	
Radar Type 1	3.9 ms	60 ms	.206s	10s	Pass
Radar Type 5	0 ms	60 ms	0 s	10s	Pass

Table 76 FCC Part 15 Subpart E Channel Closing Test Results

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

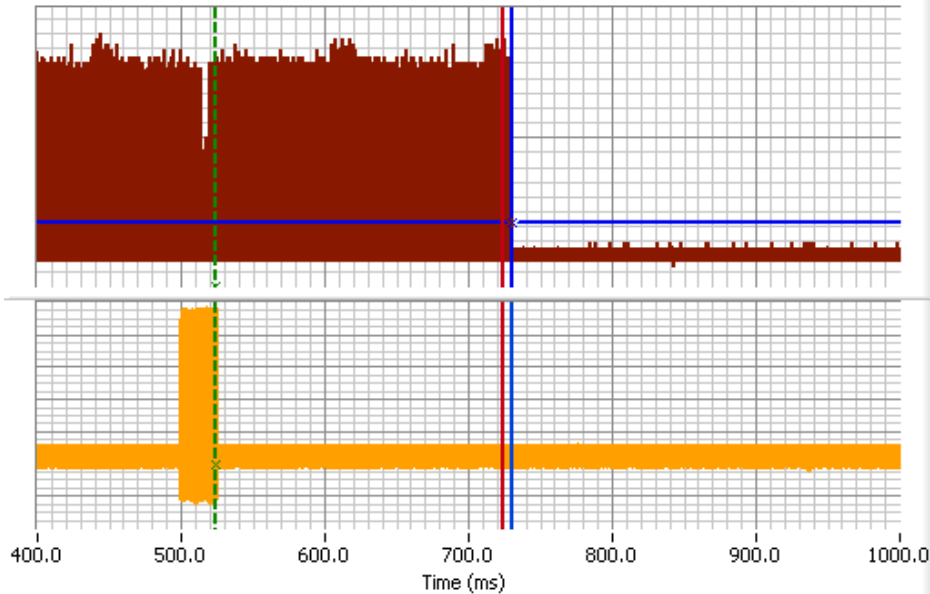
¹ Channel closing time for FCC measurements is the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.

Elliott Timing Plots - Channel Closing



Radar Type 1 (10 seconds)

Elliott Timing Plots - Channel Closing

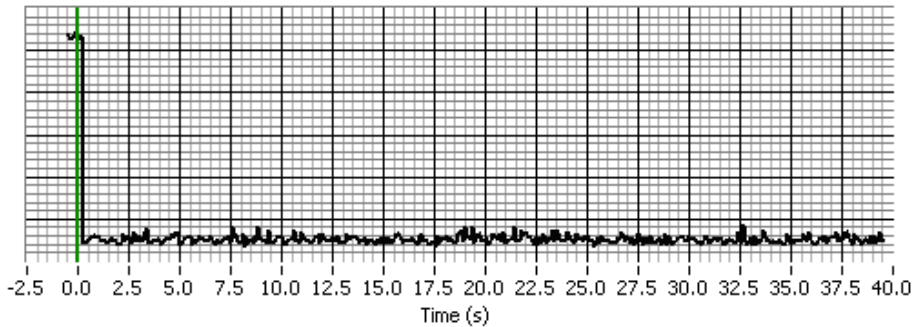


- Cursor at end of traffic
- Cursor at T1
- Cursor at T1 + 200ms
- Channel traffic
- Radar pulses

FCC Short Pulse Radar (Type 1)

Traffic loading via windows media player Classic playing back the FCC mpeg file

Channel closing transmission time (ms) 3.90 Measured from T1 + 200ms (FCC)
Channel move time (ms) 206 Hi-Res Plot Resolution (ms) 0.020



Low-Res Plot Resolution (ms)

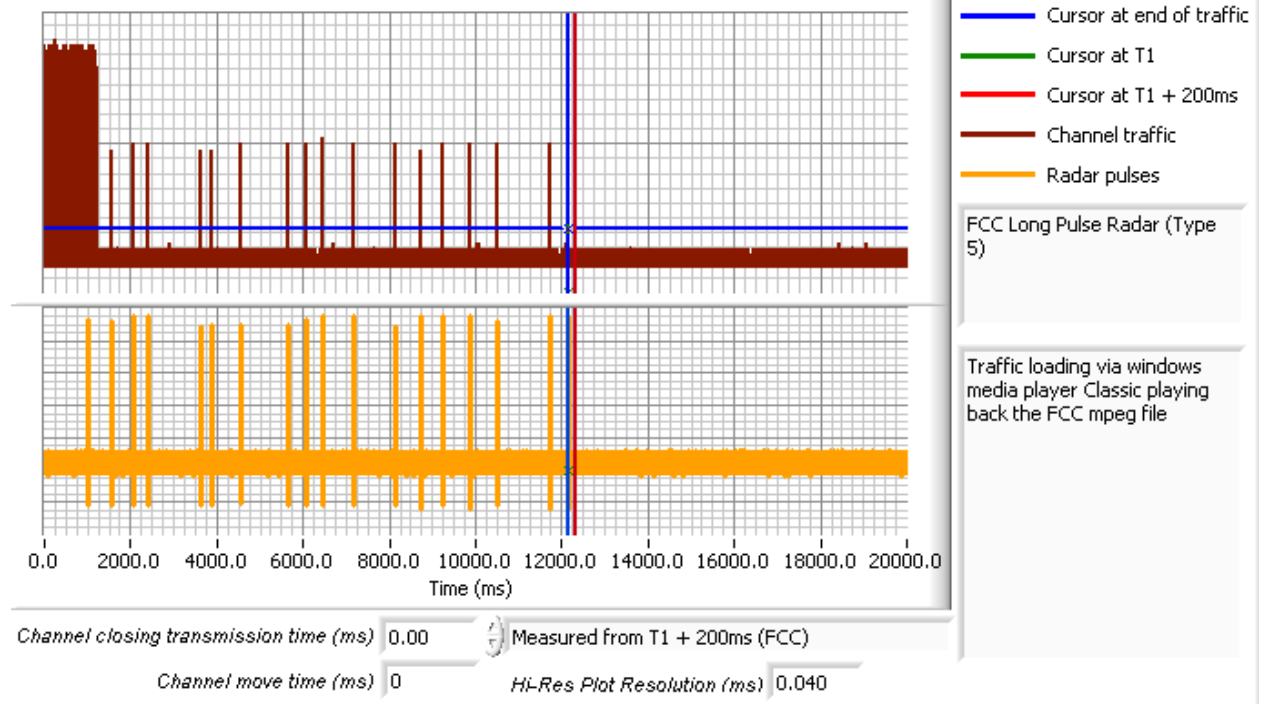
100

Channel Traffic

Low Resolution Analyzer Plot to Verify Channel Move

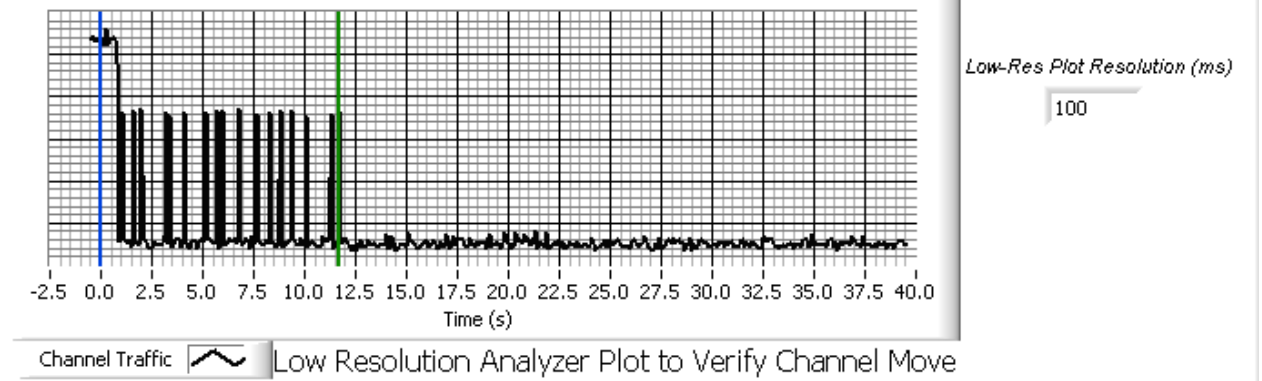
Radar Type 1 (600ms)

Elliott Timing Plots - Channel Closing



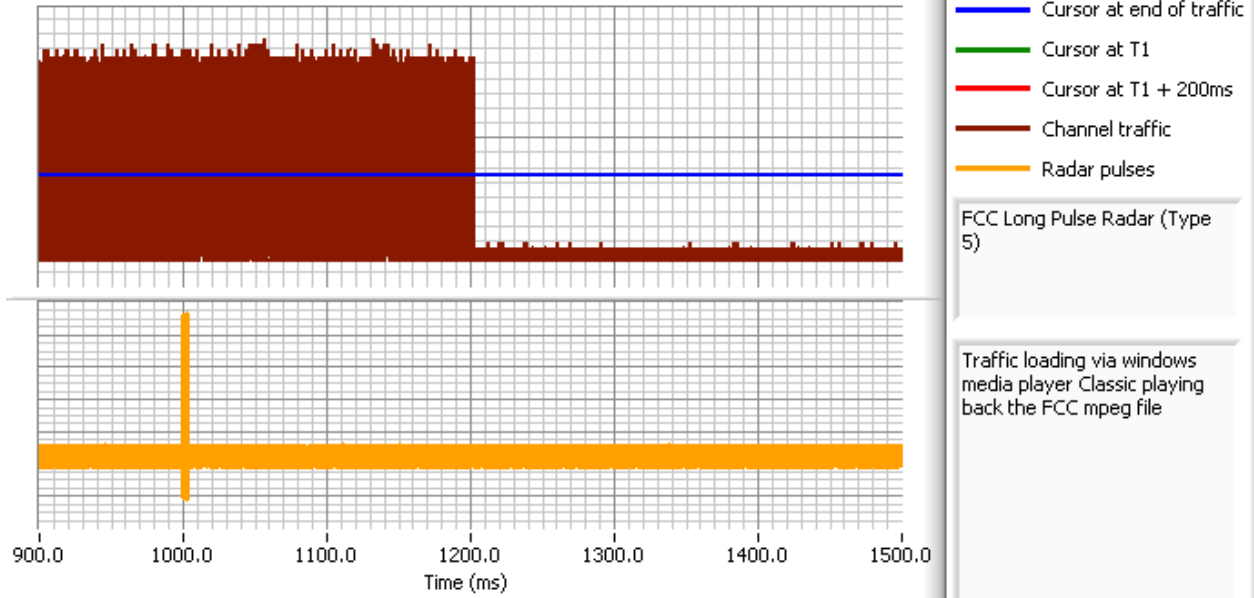
FCC Long Pulse Radar (Type 5)

Traffic loading via windows media player Classic playing back the FCC mpeg file

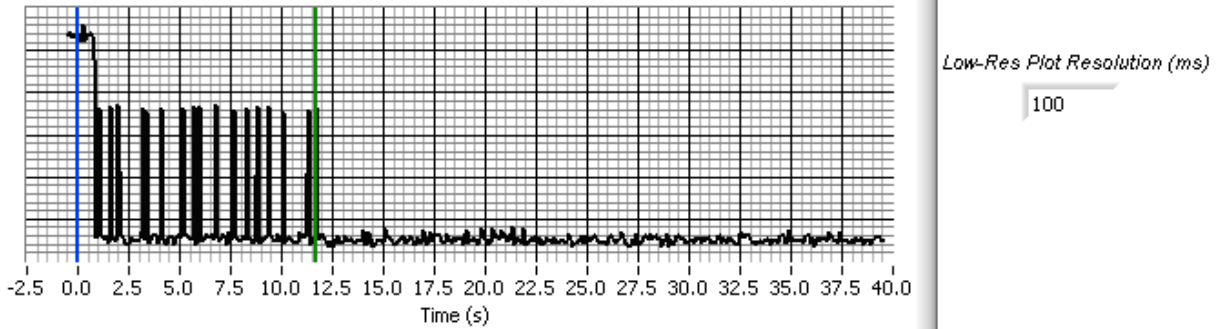


Radar Type 5 (10 seconds)

Elliott Timing Plots - Channel Closing



Channel closing transmission time (ms) 0.00 Measured from T1 + 200ms (FCC)
Channel move time (ms) 0 Hi-Res Plot Resolution (ms) 0.040



Channel Traffic Low Resolution Analyzer Plot to Verify Channel Move

Radar Type 5 (600ms)

Appendix E Test Data Tables and Plots for Channel Closing (Client Device)**FCC PART 15 SUBPART E & RSS-210 DATA**

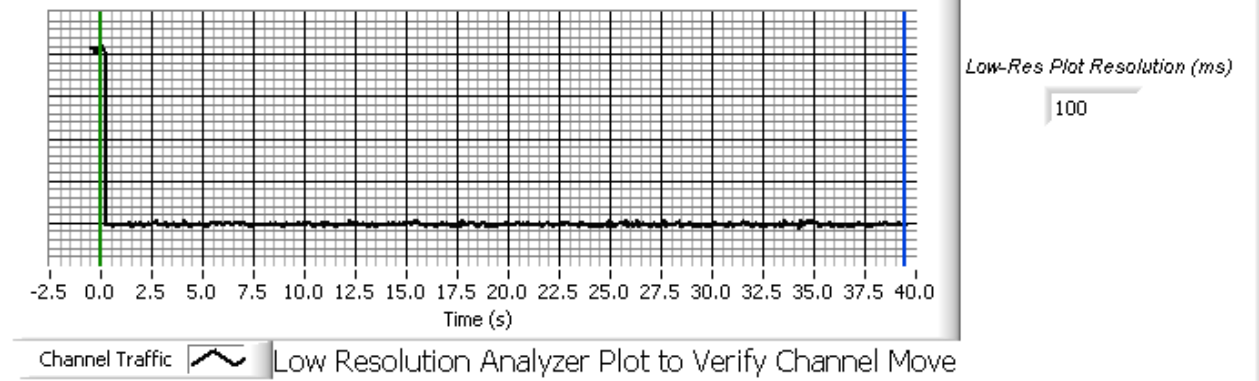
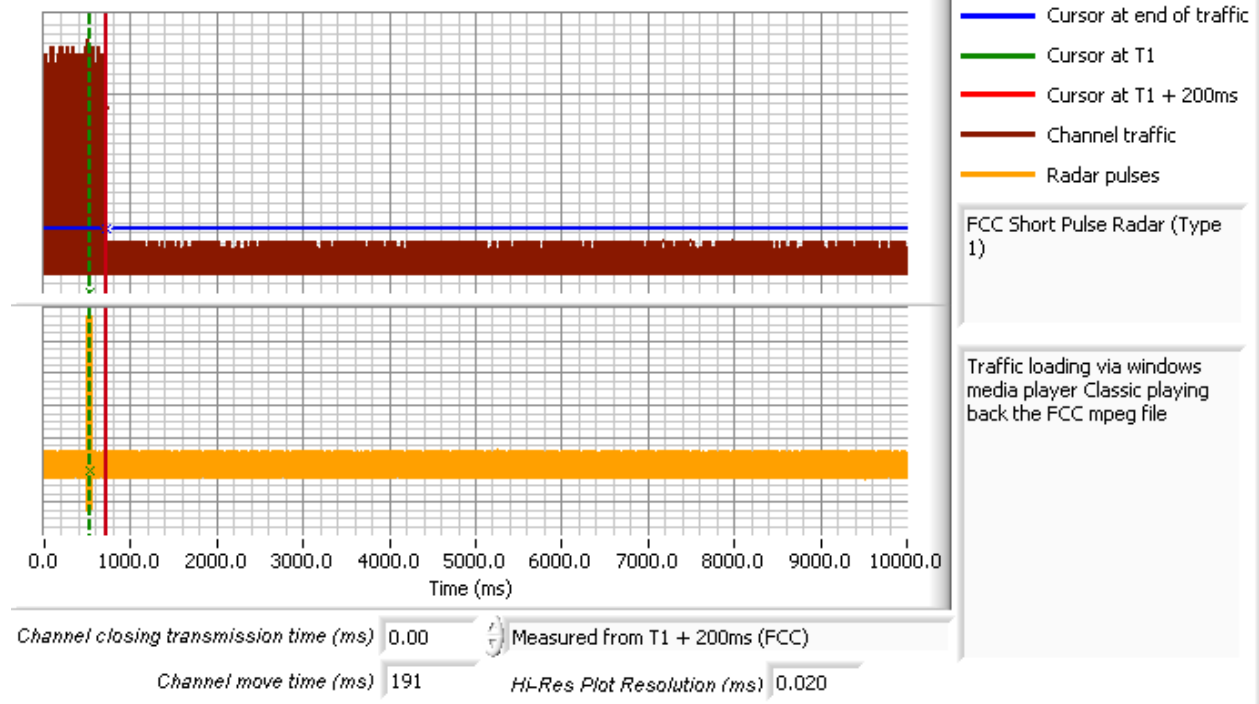
Waveform Type	Channel Closing Transmission Time ¹		Channel Move Time		Result
	Measured	Limit	Measured	Limit	
Radar Type 1	3.9 ms	60 ms	.206s	10s	Pass
Radar Type 5	0 ms	60 ms	0 s	10s	Pass

Table 77 FCC Part 15 Subpart E Channel Closing Test Results

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

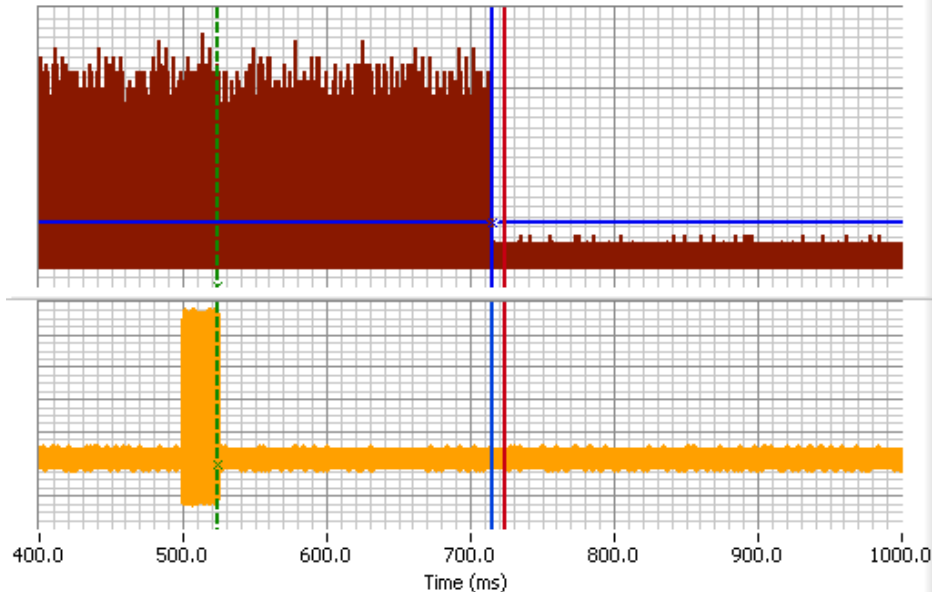
¹ Channel closing time for FCC measurements is the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.

Elliott Timing Plots - Channel Closing



Radar Type 1 (10s)

Elliott Timing Plots - Channel Closing

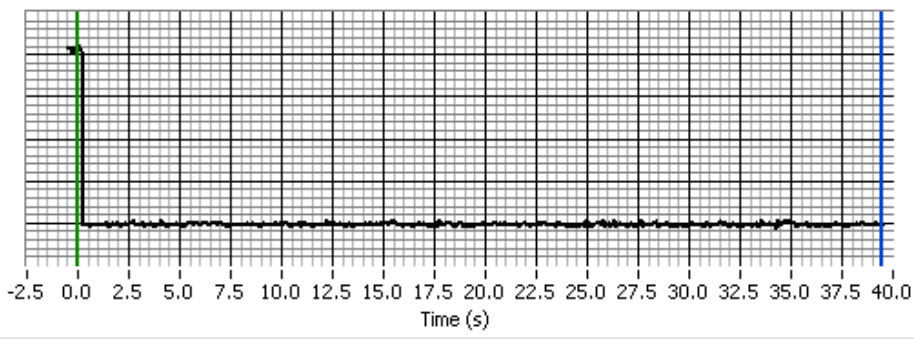


- Cursor at end of traffic
- Cursor at T1
- Cursor at T1 + 200ms
- Channel traffic
- Radar pulses

FCC Short Pulse Radar (Type 1)

Traffic loading via windows media player Classic playing back the FCC mpeg file

Channel closing transmission time (ms) 0.00 Measured from T1 + 200ms (FCC)
Channel move time (ms) 191 Hi-Res Plot Resolution (ms) 0.020

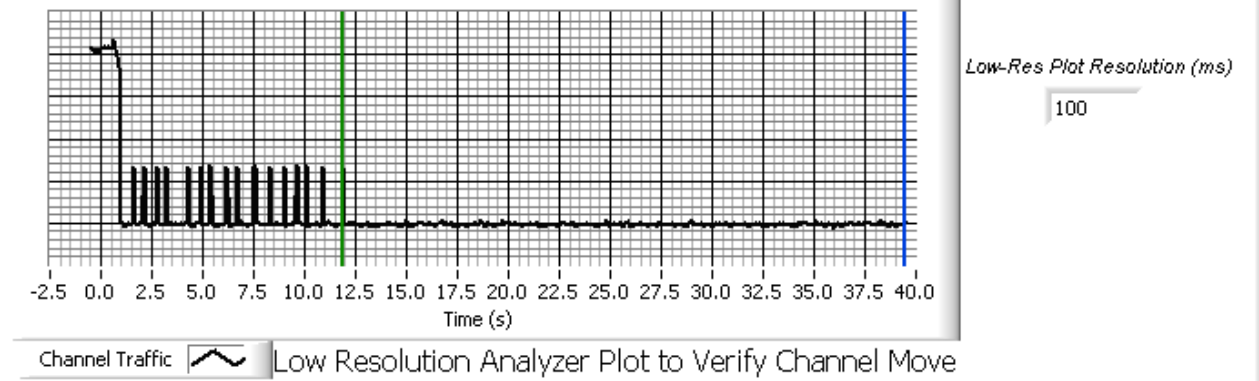
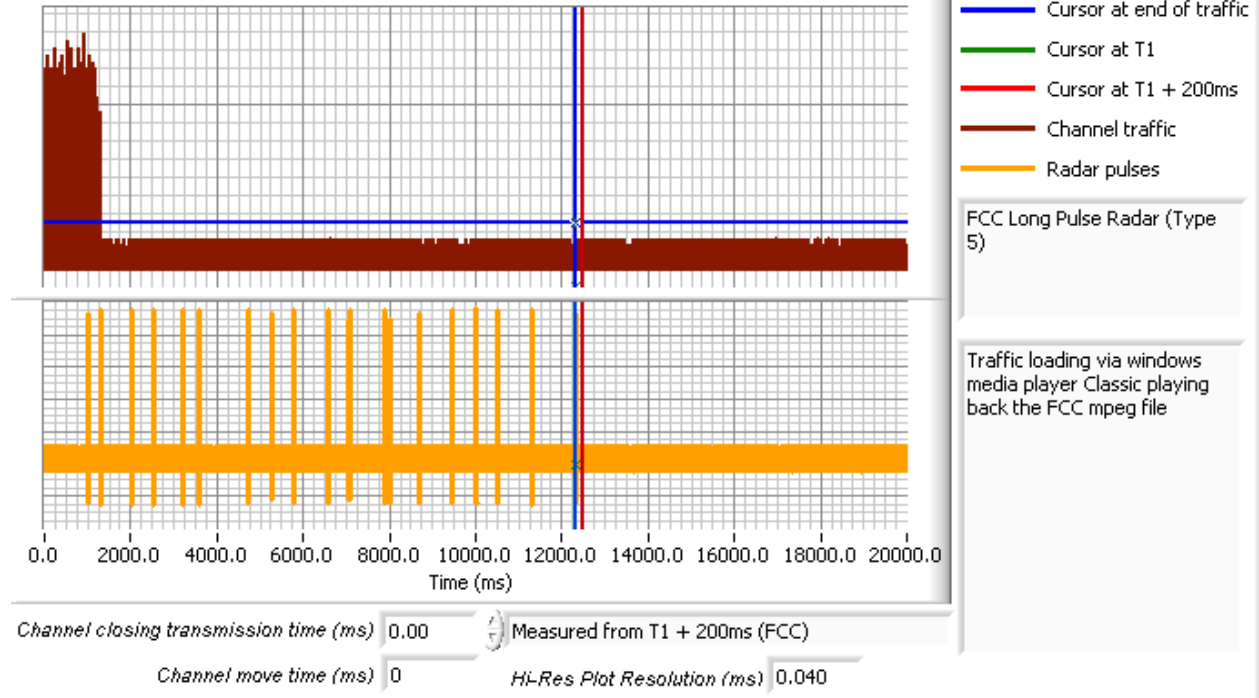


Low-Res Plot Resolution (ms)
100

Channel Traffic Low Resolution Analyzer Plot to Verify Channel Move

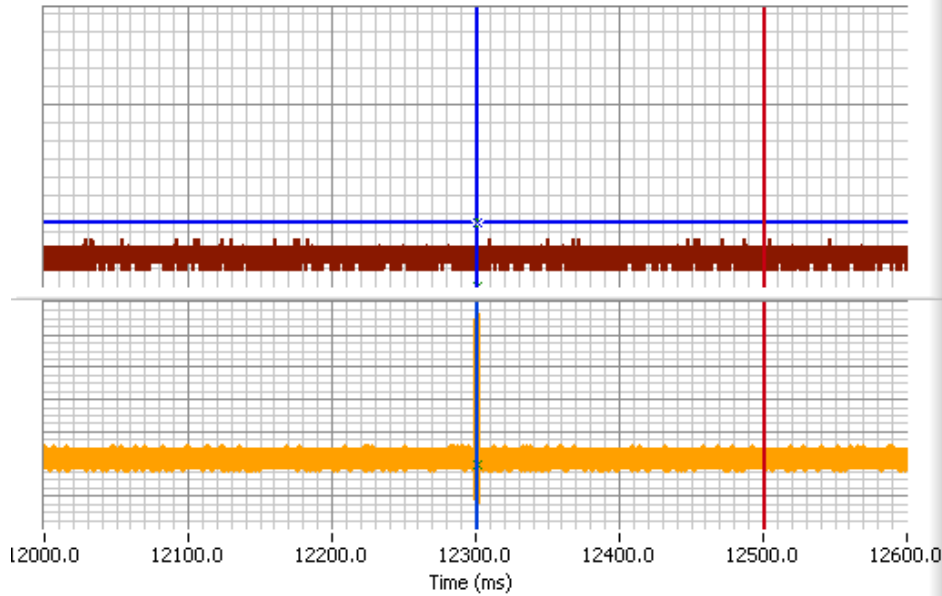
Radar Type 1 (600ms)

Elliott Timing Plots - Channel Closing



Radar Type 5 (10s)

Elliott Timing Plots - Channel Closing

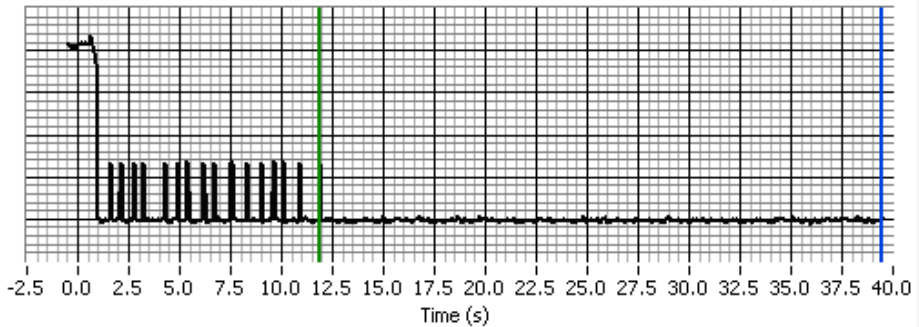


- Cursor at end of traffic
- Cursor at T1
- Cursor at T1 + 200ms
- Channel traffic
- Radar pulses

FCC Long Pulse Radar (Type 5)

Traffic loading via windows media player Classic playing back the FCC mpeg file

Channel closing transmission time (ms) 0.00 Measured from T1 + 200ms (FCC)
Channel move time (ms) 0 Hi-Res Plot Resolution (ms) 0.040



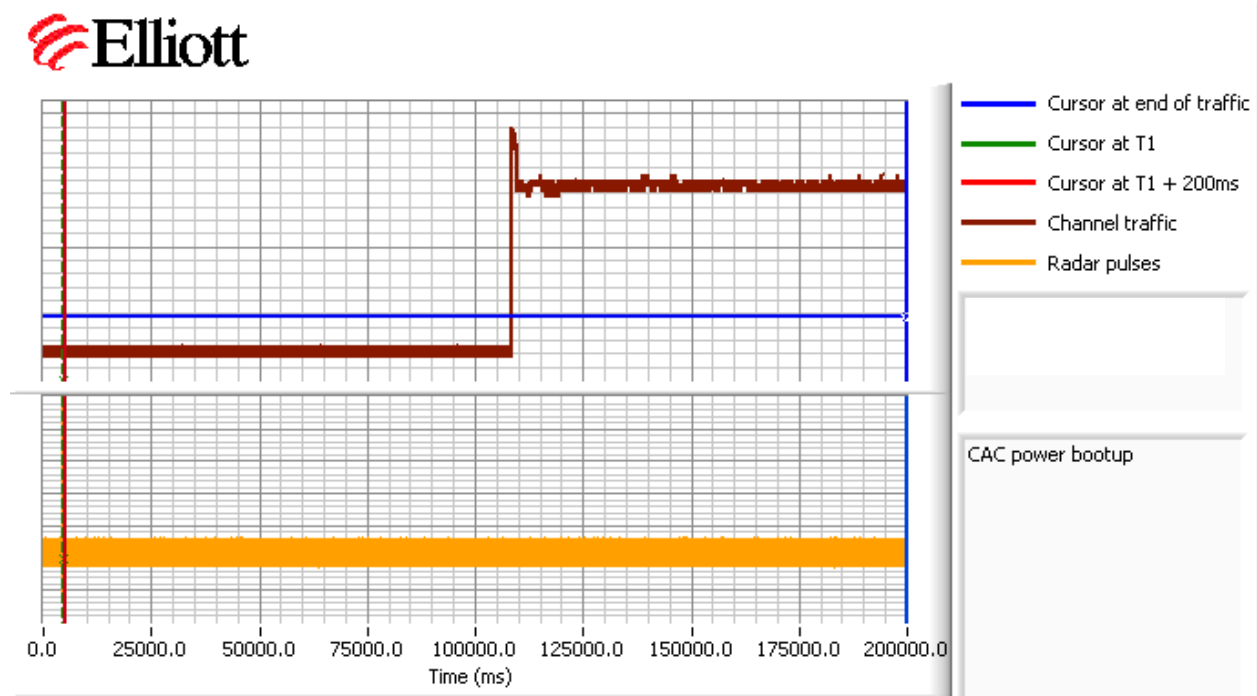
Low-Res Plot Resolution (ms)
100

Channel Traffic Low Resolution Analyzer Plot to Verify Channel Move

Radar Type 5 (600ms)

Appendix F Test Data – Channel Availability Check

The first plot shows the start of transmissions approximately 120,000s (2min) after the start of the CAC (no radar applied during the CAC).



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

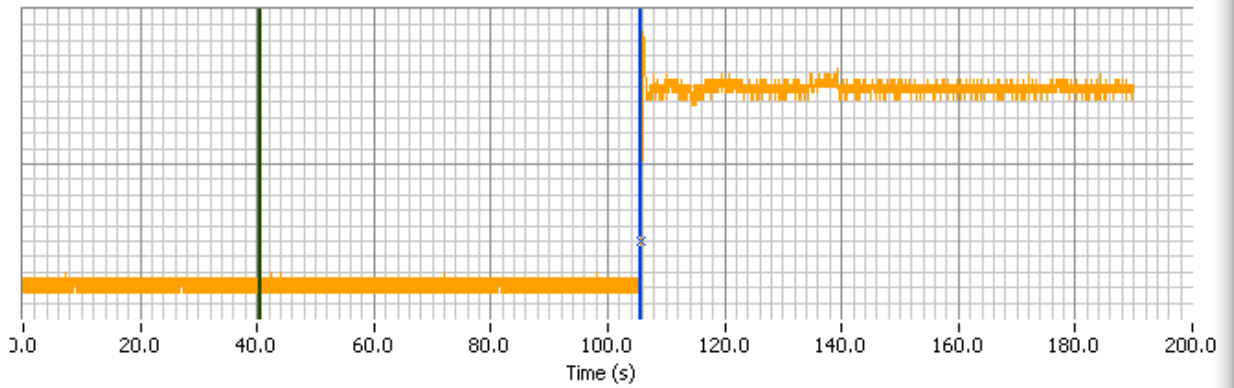
The level of the radar signal applied was -64dBm.

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 after the radar burst was applied during the CAC, and confirm that the CAC is at least 60 seconds. The description of “Channel Traffic” in the plot legend indicates the transmissions from both the radar system and the EUT on the start-up channel. In all cases only the radar burst is observed. The resolution of the plot is not fine enough to resolve the individual pulses within the burst.



Timing Plots - Channel Availability Check



Time Between Cursors (s) 65.08

Plot Resolution (ms) 80.0

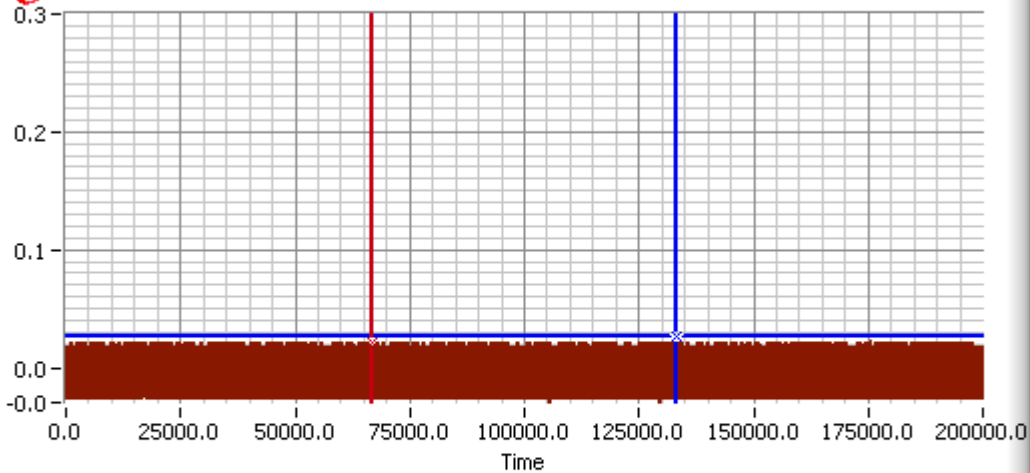
- Cursor 2
- Cursor at T1 (start of CAC)
- Channel traffic

CAC verification plot, no radar applied, device starting up on channel 60 seconds or more after start of CAC

60 Seconds Verification



Oscilloscope Timing Plot

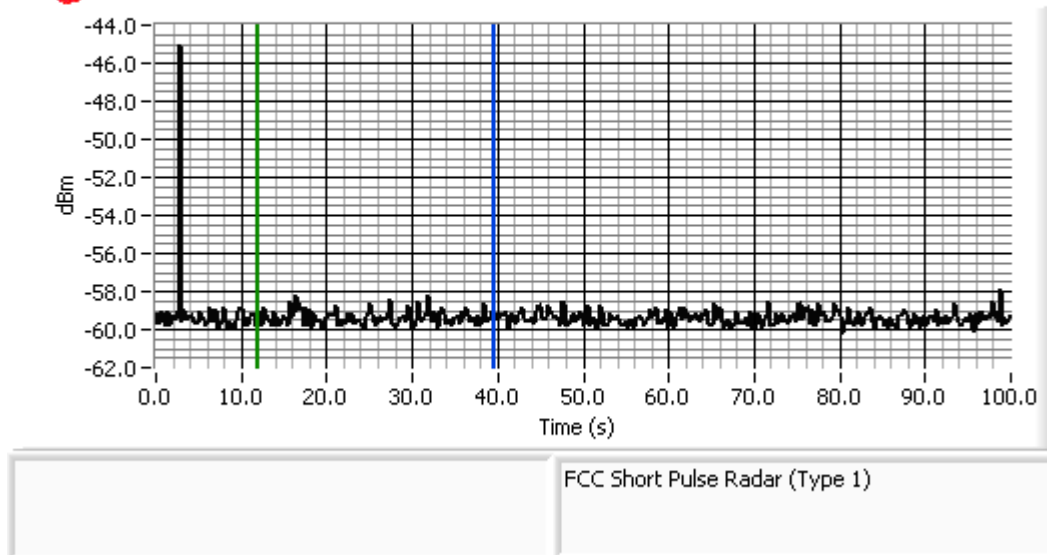


Plot resolution (us) 80.0

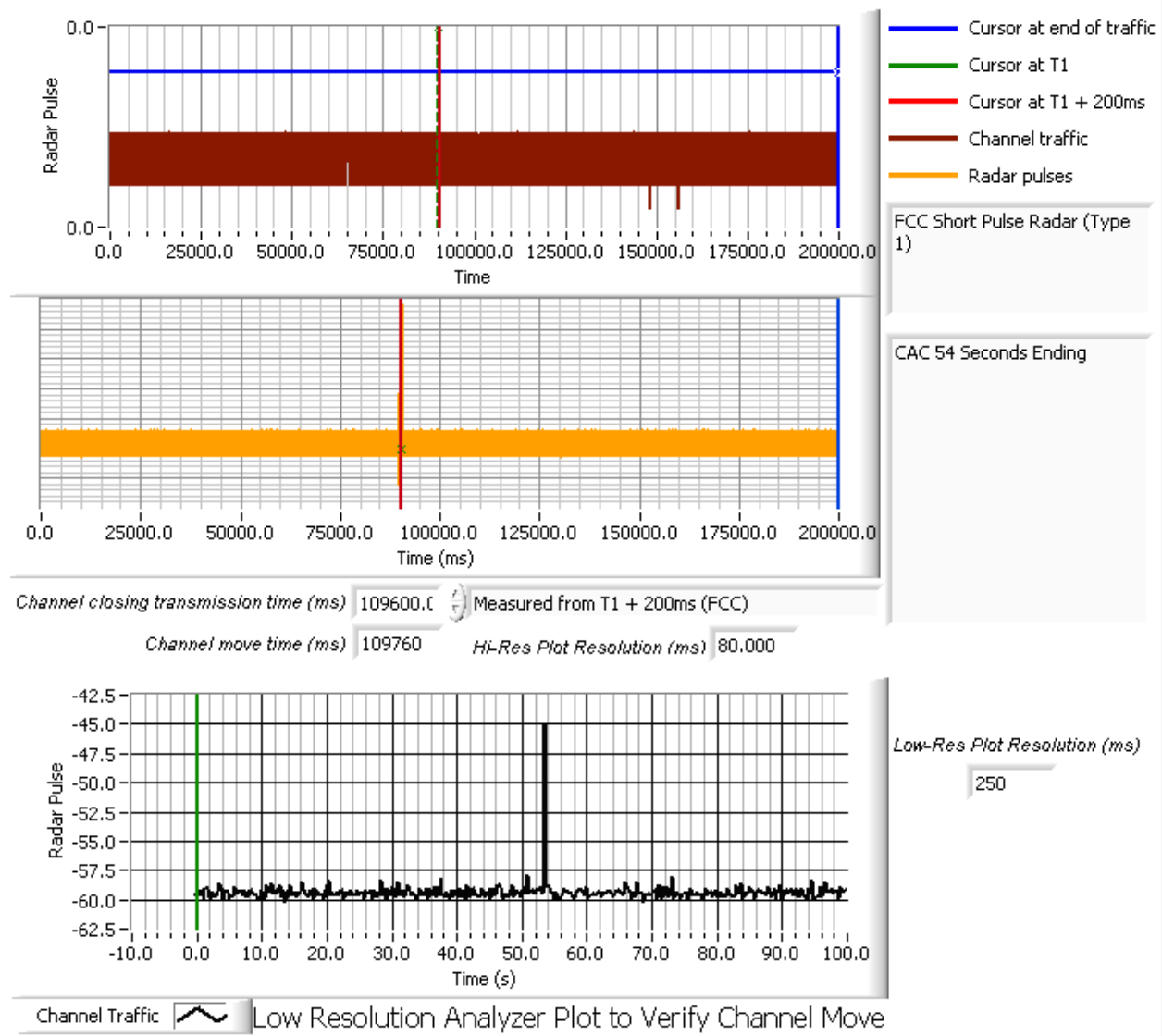
Time between cursors (us) 66640.0

Traffic Radar Type 1

 **Elliott** DFS Timing Plots © March 2006
Channel Availability Check



CAC 6 seconds using Radar Type 1



CAC 54 seconds using Radar Type 1

Appendix G UNII Detection Bandwidth

UNII Detection Bandwidth Master Device

Frequency MHz	Percentage detection
5516	0
5517	0
5518	0
5519	0
5520	0
5521 FI	90
5522	90
5523	90
5524	90
5525	90
5526	90
5527	90
5528	90
5529	90
5530	90
5531	90
5532	90
5533	90
5534	90
5535	90
5536	90
5537	90
5538	90
5539 Fh	90
5540	0
5541	0
5542	0
5543	0
5544	0

99% BW: 20 MHz

Fl	Fh	99% BW	Limit ^{note 1}
(MHz)	(MHz)	(MHz)	(MHz)
5521	5539	18	16

Note 1: Minimum 80% of the UNII
 99% transmission power
 bandwidth.

UNII Detection Bandwidth Client Device

Frequency MHz	Percentage detection
5516	0
5517	0
5518	0
5519	0
5520	0
5521	90
5522 Fl	90
5523	90
5524	90
5525	90
5526	90
5527	90
5528	90
5529	90
5530	90
5531	90
5532	90
5533	90
5534	90
5535	90
5536	90
5537	90
5538 Fh	90
5539	0
5540	0
5541	0
5542	0
5543	0
5544	0

99% BW: 20 MHz

Fl	Fh	99% BW	Limit ^{note 1}
(MHz)	(MHz)	(MHz)	(MHz)
5522	5538	16	16

Note 1: Minimum 80% of the UNII
 99% transmission power
 bandwidth.

Appendix H Test Data – Uniform Loading

The client provided the following uniform loading explanation:

- a) The master device always starts on the channel programmed by the user. Keeping the transmit power off it enter in evaluation period as required by the FCC.
- b) The client device, keeping the transmit power off, either waits on channel programmed by the user if “Auto Scan” facility is disable or scan the available channels if “Auto Scan” is enable until it recognizes the master transmitting.

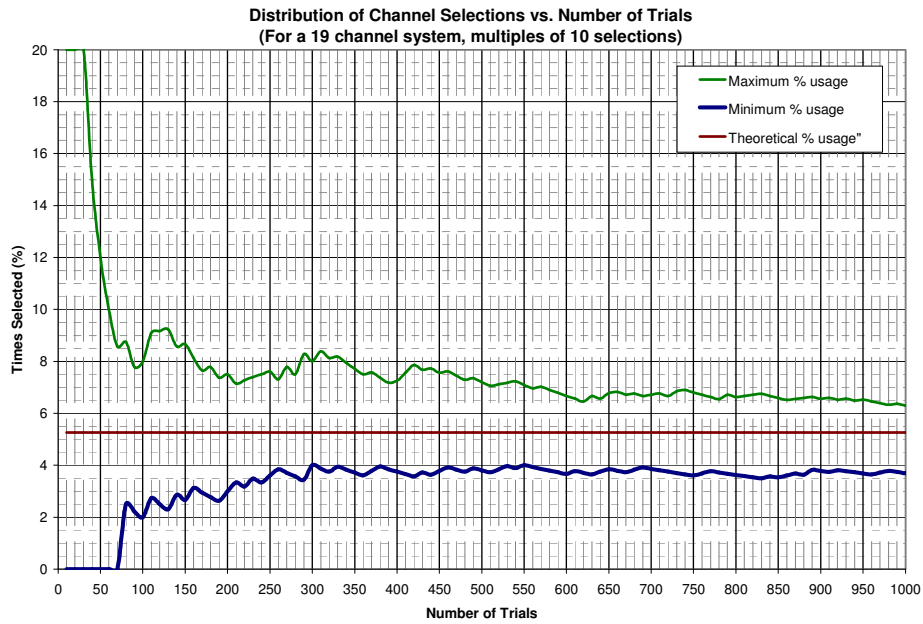


Figure 2 Expected Loading For a 19 Channel System (1,000 Trials)

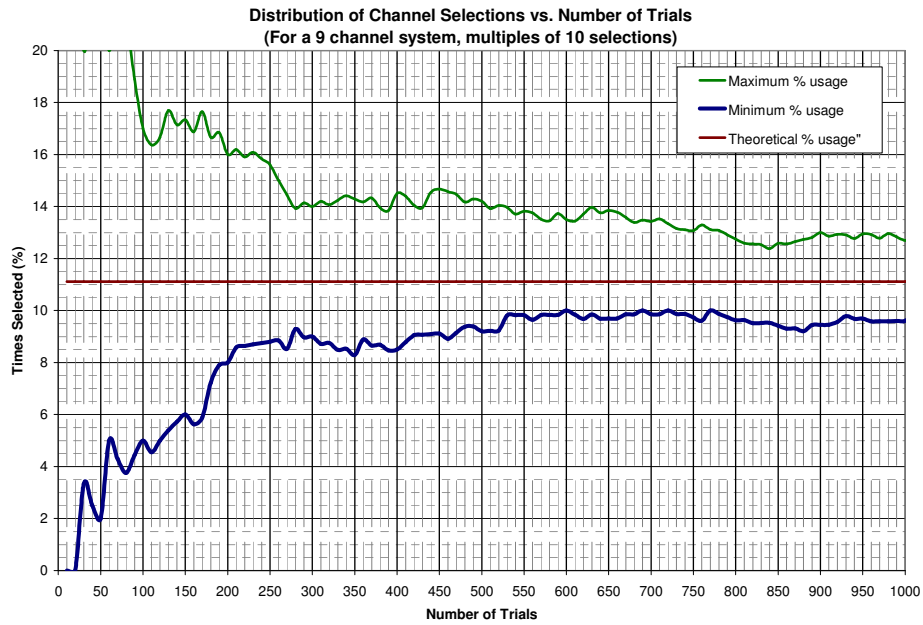


Figure 3 Expected Loading For a 9 Channel System (1,000 Trials)

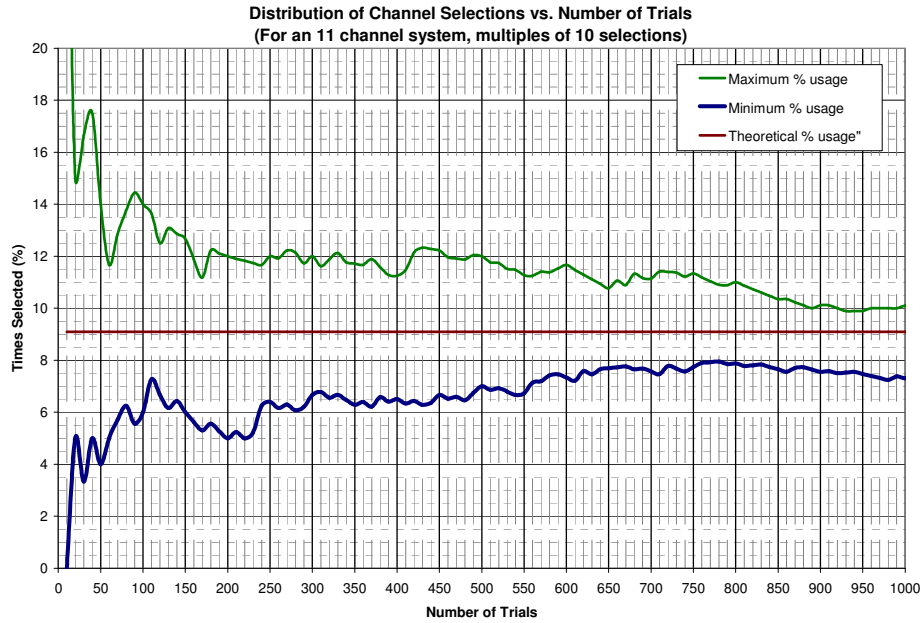


Figure 4 Expected Loading For a 11 Channel System (1,000 Trials)

For a trial size of 50, the expected distribution would be that each channel would be selected between 0% and 12% of the total number of trials. As the actual data of each channel being selected (between 2% and 10% of the time), falls within these bounds it is considered that the device is using a random channel selection algorithm that would produce loading within 10% of the theoretical loading (5.3%).

To obtain a reading within 10% of the theoretical loading on all channels could require somewhere in excess of 6000 trials. Refer to the graph below.

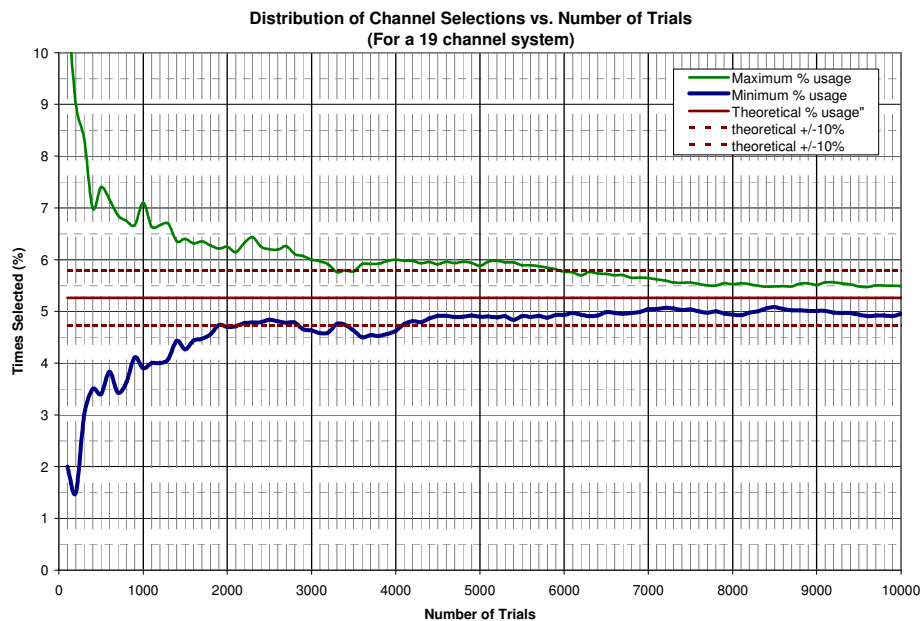


Figure 5 Expected Loading For a 19 Channel System (10,000 Trials)

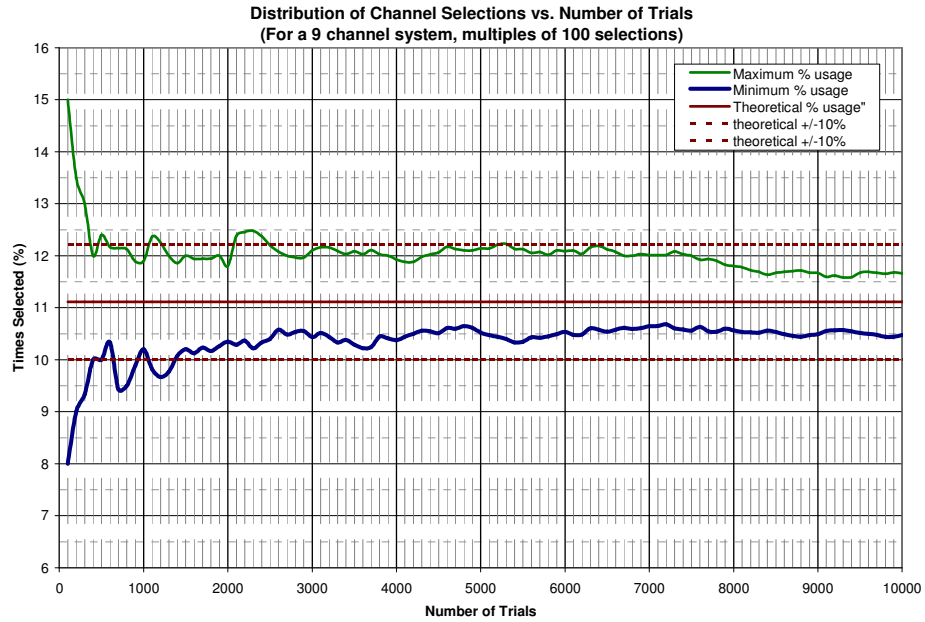


Figure 6 Expected Loading For a 9 Channel System (10,000 Trials)

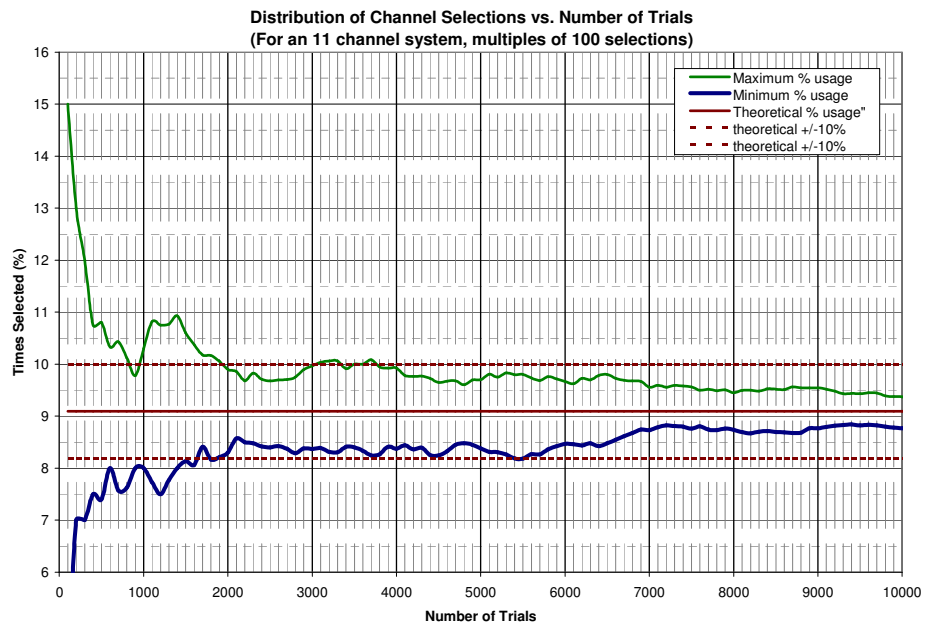




Figure 7 Expected Loading For a 11 Channel System (10,000 Trials)


Appendix I Antenna Specification Sheet

Product Specifications





ECO Series 3 - 5 GHz Models with N female



***PT* pigtail cable option for all models**

ECO Series Omni Antennas (Pat.Pend.)

for all 2.4 - 5.8 GHz Systems

- Gain configurations from 5 dBi to 12 dBi
- Economical, weatherproof and durable design for both indoors and outdoors
- Standard mounting kit includes all hardware needed for pole or wall mount
- Optional drop ceiling mount, as well as mobile magnetic & trunk lip mount

Mobile Mark's new ECO Series Omni antennas are designed for all new data & broadband systems, including WIFI, 802.11 & 802.16 systems being planned. Using the latest PCB technology, these antennas improve highspeed broadband system performance in an economical package.

The Omni antennas provide uniform horizontal pattern and excellent frequency response. The ECO Series are free space antennas; no ground plane is required. Because they are also low profile and durable, they can even be used in a mobile application. Mounting hardware is available for a variety of uses. Standard hardware includes pole/wall mount.

The antenna element is enclosed in an extremely tough white fiberglass radome. The low profile radome is only 0.63 in (1.7 cm) diameter, and 0.9 in (2.3 cm) at the base. Windloading on the antenna is insignificant. The antenna terminates with an integrated N-female. A *PT* pigtail cable option also provides a direct coax into the antenna and can be outfitted with a variety of connectors, such as Reverse polarity TNC or SMA.

These antennas can withstand the harshest outdoor environments, yet are quite attractive for indoor use. The antennas are supplied with hardware for pole or surface mount. Other mount options include flush ceiling, drop ceiling and mobile mounts.

Model Numbers		
Model	Description	Frequency
ECC05-2400PT	5 dBi Omni, Pigtail	2.4 - 2.5 GHz
ECC06-3500	6 dBi Omni	3.4 - 3.7 GHz
ECC09-3500	9 dBi Omni	3.4 - 3.7GHz
ECC06-4900	6 dBi Omni	4.9 - 5.0 GHz
ECC09-4900	9 dBi Omni	4.9 - 5.0 GHz
ECC06-5500	6 dBi Omni	5.0 - 6.0 GHz
ECC09-5500	9 dBi Omni	5.0 - 6.0 GHz
ECC012-5800	12 dBi Omni	5.7 - 6.0 GHz

add *PT* Pigtail Direct Cable Option with N male connectors, others available

Special configurations may be available upon request. Please consult factory for more information.

Specifications			
Frequency/Gain:	See above	Mounting:	Pole or surface mount, mounts up to 2" (5cm)
Bandwidth@ 2:1 VSWR:	See above	Antenna Length:	
Impedance:	50 Ohm nominal	ECC05-2400PT	11 in (28.0 cm)
Max Power:	25 Watts	ECC06-3500	15 in (38.1 cm)
ECO5 Beamwidth:	30° EI, 360° AZ	ECC09-3500	19 in (48.3 cm)
ECO6 Beamwidth:	25° EI, 360° AZ	ECC06-4900	11 in (28.0 cm)
ECO9 Beamwidth:	14° EI, 360° AZ	ECC09-4900	15 in (38.1 cm)
ECO12 Beamwidth:	7° EI, 360° AZ	ECC06-5500	11 in (28.0 cm)
Lightning Protection:	External recommended	ECC09-5500	15 in (38.1 cm)
Max Wind Velocity:	100 mph, all models	ECC012-5800	19 in (48.3 cm)
Material:	White fiberglass radome,	Connector (standard):	N female direct,
Weight:	<0.75 lbs	PT Pigtail Option:	1ft cable & N male, others available
Antenna Diameter:	0.65 in (1.7 cm) Radome, 0.9 in (2.3 cm) at the base		

US Office & Headquarters: 3900-B River Road, Schiller Park, IL 60176 Tel: 800-845-2800 or 847-671-6600 Fax: 847-671-6715
 UK Office: 106 Anglessey Business Park, Hadnesford, Staffs. WS12 1NR UK Tel: (+44) 1543-878343 Fax: (+44) 1543-871714
 Visit our web page at www.mobilemark.com. Specifications subject to change without notice (5/2006).

File: R68167

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Appendix J Test Configuration Photographs

