TEST REPORT

Covering the
DYNAMIC FREQUENCY SELECTION (DFS)
REQUIREMENTS
OF

FCC Part 15 Subpart E (UNII)

Ubiquiti Networks
Model(s): NanoBridgeM5

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TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

SCOPE

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

- FCC Part 15 Subpart E Unlicensed National Information Infrastructure (U-NII) Devices.

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 Ubiquiti Networks model NanoBridgeM5 and therefore apply only to the tested sample. The sample was selected and prepared by Jennifer Sanchez of Ubiquiti Networks.

OBJECTIVE

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

STATEMENT OF COMPLIANCE

The tested sample of the Ubiquiti Networks model NanoBridgeM5 complied with the DFS requirements of FCC Part 15.407(h)(2).

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

Limited testing was performed per the DFS test plan submitted to the FCC under KDB 194449. Due to the similarity NanoBridgeM5 to the LocoStationM5 (FCC ID: SWX-M5LD) a subset of the DFS tests were applied. From the test plan the following tests were performed:

1. Confirmation of the detection bandwidth in the HT5 and HT40 modes
2. Confirm detection probability for radar types 1-4, and 6 using the worse case bandwidths/radar waveforms combinations from the LocoStationM5 testing.
3. Confirm detection probability for radar type 5 using the worse case bandwidth from the LocoStationM5 testing.
4. Channel Close/Move Time for HT5 and HT40 modes
5. 30 minute Non-Occupancy confirmation
6. Client Mode – Channel close/move time for all supported bandwidths (HT5, HT20, HT40)
7. Client Mode – 30 minute non-occupancy confirmation

EQUIPMENT UNDER TEST (EUT) DETAILS

GENERAL

The the Ubiquiti Networks model NanoBridgeM5 is a proprietary Access Point which is designed to provide wireless communications links using MIMO technology with bandwidths of between 5 and 40 MHz.

The sample was received on January 4, 2012 and tested on January 4, 6 and 10, 2012. The EUT consisted of the following component(s):

Manufacturer	Model	Description	Serial Number
Ubiquiti Networks	NanoBridgeM5 (Master)	Access Point	None (WLAN MAC: 00:15:6D:1E:FB:CA)
Ubiquiti Networks	NanoBridgeM5 (Client)	Client	None (WLAN MAC: 00:15:6D:1E:FB:BE)

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

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

☒ Master Device 5250-5350 MHz

☒ Master Device 5470-5725 MHz (excluding 5600-5650 MHz)

☒ Client Device (no In Service Monitoring, no Ad-Hoc mode)

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

	5250 – 5350 MHz	5470 – 5725 MHz
Lowest Antenna Gain (dBi)	25	25
Highest Antenna Gain (dBi)	25	25
EIRP Output Power (dBm)	29.7	30.0

☒ Power can exceed 200mW eirp

Channel Protocol

☒ IP Based

ENCLOSURE

The EUT enclosure measures approximately 21 by 31 by 31 centimeters. It is primarily constructed of uncoated coated plastic.

MODIFICATIONS

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

SUPPORT EQUIPMENT

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

Manufacturer	Model	Description	Serial Number	FCC ID
Ubiquiti	*NanoBridge M5*	*AP*	*N/A*	*SWX-NBM5D*
DELL	Vostro 1520	Laptop	43469242957	DoC
DELL	Vostro 1520	Laptop	27209067121	DoC
Ubiquiti	UBI-POE-24-5	PoE	1005-0089370	-
Ubiquiti	UBI-POE-24-5	PoE	1005-0089358	-

The italicized device was the client device.

EUT INTERFACE PORTS

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

		Cable(s)		
Port	Connected To	Description	Shielded or Unshielded	Length (m)
EUT (LAN)	PoE	UTP (Cat 5)	Unshielded	10.0
PoE (LAN)	Laptop (Server)	UTP (Cat 5)	Unshielded	1.0
Client (LAN)	PoE	UTP (Cat 5)	Unshielded	10.0
PoE (LAN)	Laptop (Client)	UTP (Cat 5)	Unshielded	1.0

EUT OPERATION

Two devices were tested, one configured as a client and the other as master. The EUT was operating with the following software:

Master Device: XM.v5.5

Client Device: XM.v5.5

The manufacturer declared that the software is secured to prevent the user from disabling the DFS function.

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.

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.

RADAR WAVEFORMS

Table 1 - FCC Short Pulse Radar Test Waveforms					
Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses / burst	Minimum Detection Percentage	Minimum Number of Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Table 2 - FCC Long Pulse Radar Test Waveforms							
Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Pulses / burst	Number of *Bursts*	Minimum Detection Percentage	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 3 - FCC Frequency Hopping Radar Test Waveforms							
Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses / hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Detection Percentage	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

TEST RESULTS

TEST RESULTS SUMMARY – FCC Part 15, MASTER DEVICE

Table 4 - FCC Part 15 Subpart E Master Device Test Result Summary

Description	Radar Type	EUT Frequency	Measured Value	Requirement	Test Data	Status
Channel Availability Check (CAC) Time	Type 1	-	-	≥ 60s	-	Note 2
CAC Detection Threshold	Type 1	-	-	-64dBm (See note 3)	-	Note 2
In-Service Monitoring Detection Threshold	Type 1 Type 2 Type 3 Type 4 Type 5 Type 6	Varies	-64 dBm (note 2)	-64dBm (See note 3)	Appendix B	Pass
Bandwidth Detection	Type 1	Varies	HT5: 4MHz HT40: 44MHz	80% of the 99% BW	-	Pass
Channel closing transmission time HT5	Type 1 Type 5	5670 MHz 5290 MHz	4.58ms 0ms	≤ 260ms	Appendix D	Pass
Channel move time HT5	Type 1 Type 5	5670 MHz 5290 MHz	434ms -1296ms	≤ 10s	Appendix D	Pass
Channel closing transmission time HT40	Type 1 Type 5	5310 MHz 5290 MHz	1.86ms 0ms	≤ 260ms	Appendix D	Pass
Channel move time HT40	Type 1 Type 5	5310 MHz 5290 MHz	557ms -7808ms	≤ 10s	Appendix D	Pass
Non-occupancy period	-	5285 MHz	>1800sec	> 30 minutes	Appendix D	Pass
Uniform Loading		-	-	Uniform Loading	Refer to operational description	-

1) Tests were performed using the radiated test method.
2) Test not performed/requirement not evaluated per DFS test plan, KDB 1914449
3) The measured detection threshold is based on testing the master device using the radiated test method when connected to an antenna with a nominal gain of 25 dBi. The limit is based on an eirp of more than 23 dBm.
4) The in-service monitoring detection threshold and detection probability measurements were made with the device operating in the 5250 – 5350 MHz and 5500-5700 MHz band.

TEST RESULTS SUMMARY – FCC Part 15, CLIENT DEVICE

Table 5 - FCC Part 15 Subpart E Client Device Test Result Summary

Description	Radar Type	EUT Frequency	Measured Value	Requirement	Test Data	Status
Channel closing transmission time HT 5	Type 1	5700MHz	13.6ms	≤ 260ms	Appendix D	Pass
Channel move time HT5	Type 1	5700MHz	523ms	≤ 10s	Appendix D	Pass
Channel closing transmission time HT20	Type 1	5290MHz	10.4ms	≤ 260ms	Appendix D	Pass
Channel move time HT20	Type 1	5290MHz	469ms	≤ 10s	Appendix D	Pass
Channel closing transmission time HT40	Type 1	5670MHz	5.6ms	≤ 260ms	Appendix D	Pass
Channel move time HT40	Type 1	5670MHz	486ms	≤ 10s	Appendix D	Pass
Non-occupancy period - associated	Type 1	5710MHz	>1800 sec.	> 30 minutes	Appendix D	Pass
Passive Scanning	N/A	N/A	Refer to manufacturer attestation			

1) Tests were performed using the radiated test method.
2) Channel availability check, detection threshold and non-occupancy period are not applicable to client devices.

MEASUREMENT UNCERTAINTIES

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

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

DFS TEST METHODS

RADIATED TEST METHOD

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

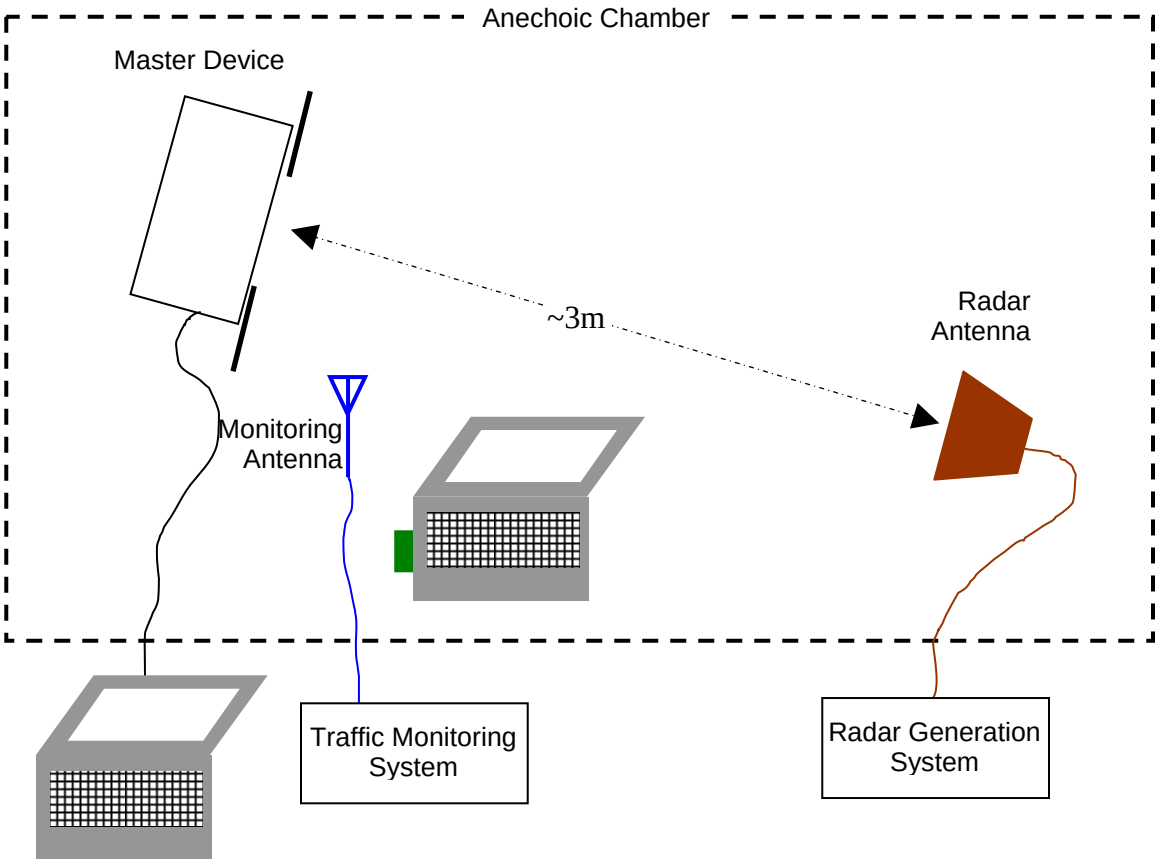


Figure 1 Test Configuration for radiated Measurement Method

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

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

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

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

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

DFS MEASUREMENT INSTRUMENTATION

RADAR GENERATION SYSTEM

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

With the exception of the hopping waveforms required by the FCC's rules (see below), the radar generator is set to a single frequency within the radar detection bandwidth of the EUT. The frequency is varied from trial to trial by stepping in 5MHz steps.

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

DFS – CHANNEL CLOSING TRANSMISSION TIME AND CHANNEL MOVE TIME

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

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

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

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

DFS – CHANNEL NON-OCCUPANCY AND VERIFICATION OF PASSIVE SCANNING

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

For devices with a client-mode that are being evaluated against FCC rules the manufacturer must supply an attestation letter stating that the client device does not employ any active scanning techniques (i.e. does not transmit in the DFS bands without authorization from a Master device).

DFS CHANNEL AVAILABILITY CHECK TIME

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

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

UNIFORM LOADING

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

TRANSMIT POWER CONTROL (TPC)

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

SAMPLE CALCULATIONS

DETECTION PROBABILITY / SUCCESS RATE

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

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

THRESHOLD LEVEL

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

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

Appendix A Test Equipment Calibration Data

Manufacturer	Description	Model #	Asset #	Cal Due
Agilent Technologies	PSG Signal Generator	E8267C	1877	03/12/2012
Tektronix	Digital Phosphor Oscilloscope	TDS5052B	2118	10/07/2012
Hewlett Packard	EMC Analyzer	8595EM	780	01/28/2012
ETS Lindgren	Horn Antenna (Transmit)	3117	1662	05/04/2012
ETS Lindgren	Horn Antenna (Receive)	3115	868	06/08/2012

Appendix B Test Data Tables for Radar Detection Bandwidth

Test Results For 5 MHz Bandwidth (HT5 Mode)

Table 6 - HT5 Detection Bandwidth Measurements (Bandwidth: +2MHz /-2MHz)					
EUT Frequency	Radar Type	Radar Frequency	# Detected	# Not Detected	Success (%)
5550.00 MHz	FCC Short Pulse Radar (Type 1)	5547.00 MHz	1	3	25
5550.00 MHz	FCC Short Pulse Radar (Type 1)	5548.00 MHz	10	0	100
5550.00 MHz	FCC Short Pulse Radar (Type 1)	5549.00 MHz	10	0	100
5550.00 MHz	FCC Short Pulse Radar (Type 1)	5550.00 MHz	10	0	100
5550.00 MHz	FCC Short Pulse Radar (Type 1)	5551.00 MHz	10	0	100
5550.00 MHz	FCC Short Pulse Radar (Type 1)	5552.00 MHz	10	0	100
5550.00 MHz	FCC Short Pulse Radar (Type 1)	5553.00 MHz	0	3	0

Table 7 - HT40 Detection Bandwidth Measurements (Bandwidth: +32MHz /-12MHz)					
EUT Frequency	Radar Type	Radar Frequency	# Detected	# Not Detected	Success (%)
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5277.00 MHz	6	3	67
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5278.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5279.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5280.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5281.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5282.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5283.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5284.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5285.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5286.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5287.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5288.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5289.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5290.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5291.00 MHz	10	0	100

Table 7 - HT40 Detection Bandwidth Measurements (Bandwidth: +32MHz /-12MHz)					
EUT Frequency	Radar Type	Radar Frequency	# Detected	# Not Detected	Success (%)
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5292.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5293.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5294.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5295.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5296.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5297.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5298.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5299.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5300.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5301.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5302.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5303.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5304.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5305.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5306.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5307.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5308.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5309.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5310.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5311.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5312.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5313.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5314.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5315.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5316.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5317.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5318.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse	5319.00 MHz	10	0	100

Table 7 - HT40 Detection Bandwidth Measurements (Bandwidth: +32MHz /-12MHz)					
EUT Frequency	Radar Type	Radar Frequency	# Detected	# Not Detected	Success (%)
	Radar (Type 1)				
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5320.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5321.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5322.00 MHz	10	0	100
5290.00 MHz	FCC Short Pulse Radar (Type 1)	5323.00 MHz	0	3	0

Appendix C Test Data Tables for Radar Detection Probability

Table 8 - Summary of All Results - HT5, HT20, HT40				
Waveform Name	Pd (%)	Pd Required (%)	Number of Trials	Status
FCC Short Pulse Radar (Type 1) – HT5	90.0 %	60.0 %	30	PASSED
FCC Short Pulse Radar (Type 2) – HT5	96.7 %	60.0 %	30	PASSED
FCC Short Pulse Radar (Type 3) – HT20	90.0 %	60.0 %	30	PASSED
FCC Short Pulse Radar (Type 4) – HT5	93.3 %	60.0 %	30	PASSED
Aggregate of above results	92.5 %	80.0 %	120	PASSED
Long Sequence – HT5	90.0 %	80.0 %	30	PASSED
FCC frequency hopping radar (Type 6) – HT40	100.0 %	70.0 %	39	PASSED

Table 9 - FCC Short Pulse Radar (Type 1) Results HT5						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
1	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:45:36 PM)
2	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:45:46 PM)
3	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:46:00 PM)
4	18	1.0	1428.0	No	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:46:10 PM)
5	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:46:23 PM)
6	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:46:41 PM)
7	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:46:58 PM)
8	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:47:07 PM)
9	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:47:16 PM)
10	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:47:24 PM)
11	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:47:33 PM)
12	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:47:45 PM)
13	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:47:54 PM)
14	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:48:04 PM)
15	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:48:12 PM)
16	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:48:22 PM)
17	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:48:30 PM)
18	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:48:40 PM)

Table 9 - FCC Short Pulse Radar (Type 1) Results HT5						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
19	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:48:59 PM)
20	18	1.0	1428.0	No	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:49:11 PM)
21	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:49:27 PM)
22	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:49:37 PM)
23	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:49:47 PM)
24	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:49:56 PM)
25	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:50:05 PM)
26	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:50:13 PM)
27	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:50:21 PM)
28	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:50:29 PM)
29	18	1.0	1428.0	No	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:50:38 PM)
30	18	1.0	1428.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:50:48 PM)

Table 10 - FCC Short Pulse Radar (Type 2) Results HT5						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
1	27	3.6	176.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:51:28 PM)
2	23	3.7	225.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:51:55 PM)
3	25	3.6	221.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:52:07 PM)
4	28	2.0	178.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:52:19 PM)
5	27	2.4	206.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:52:52 PM)
6	28	4.8	193.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:53:04 PM)
7	24	3.6	202.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:53:13 PM)
8	25	4.3	161.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:53:29 PM)
9	25	4.0	225.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:53:38 PM)
10	23	2.4	175.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:53:47 PM)
11	26	1.9	156.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:53:56 PM)
12	26	2.4	154.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:54:05 PM)

Table 10 - FCC Short Pulse Radar (Type 2) Results HT5						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
13	26	2.6	172.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:54:20 PM)
14	28	2.0	200.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:54:29 PM)
15	27	4.9	178.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:54:37 PM)
16	27	3.9	165.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:54:46 PM)
17	26	2.6	196.0	No	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:54:56 PM)
18	26	2.3	222.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:55:06 PM)
19	24	1.1	212.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:55:15 PM)
20	24	3.4	151.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:55:25 PM)
21	29	3.9	208.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:55:33 PM)
22	26	3.5	157.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:55:44 PM)
23	26	3.8	151.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:55:52 PM)
24	29	3.6	161.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:56:02 PM)
25	29	3.7	216.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:56:11 PM)
26	25	2.8	165.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:56:23 PM)
27	29	3.8	199.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:56:32 PM)
28	27	4.4	230.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:56:41 PM)
29	26	3.2	153.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:56:50 PM)
30	24	1.1	169.0	Yes	5550.0MHz, -64.0dBm	Single burst (01/04/2012 02:56:58 PM)

Table 11 - FCC Short Pulse Radar (Type 3) Results HT20						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
1	18	7.5	357.0	Yes	5275.0MHz, -64.0dBm	Single burst (01/04/2012 04:39:27 PM)
2	16	6.0	356.0	Yes	5270.0MHz, -64.0dBm	Single burst (01/04/2012 04:39:35 PM)
3	17	8.1	316.0	Yes	5280.0MHz, -64.0dBm	Single burst (01/04/2012 04:39:44 PM)
4	18	9.2	347.0	Yes	5275.0MHz, -64.0dBm	Single burst (01/04/2012 04:39:52 PM)
5	17	7.4	357.0	Yes	5270.0MHz, -64.0dBm	Single burst (01/04/2012 04:40:00 PM)

Table 11 - FCC Short Pulse Radar (Type 3) Results HT20						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
6	16	8.2	475.0	Yes	5280.0MHz, -64.0dBm	Single burst (01/04/2012 04:40:08 PM)
7	16	7.0	243.0	Yes	5275.0MHz, -64.0dBm	Single burst (01/04/2012 04:40:15 PM)
8	18	6.7	392.0	Yes	5270.0MHz, -64.0dBm	Single burst (01/04/2012 04:40:25 PM)
9	17	8.6	272.0	Yes	5280.0MHz, -64.0dBm	Single burst (01/04/2012 04:40:36 PM)
10	18	9.7	396.0	Yes	5275.0MHz, -64.0dBm	Single burst (01/04/2012 04:40:46 PM)
11	16	7.7	480.0	Yes	5270.0MHz, -64.0dBm	Single burst (01/04/2012 04:40:58 PM)
12	16	9.7	256.0	Yes	5280.0MHz, -64.0dBm	Single burst (01/04/2012 04:41:08 PM)
13	17	7.0	241.0	Yes	5275.0MHz, -64.0dBm	Single burst (01/04/2012 04:41:16 PM)
14	17	7.6	298.0	Yes	5270.0MHz, -64.0dBm	Single burst (01/04/2012 04:41:23 PM)
15	17	9.9	285.0	Yes	5280.0MHz, -64.0dBm	Single burst (01/04/2012 04:41:33 PM)
16	16	8.2	270.0	Yes	5275.0MHz, -64.0dBm	Single burst (01/04/2012 04:41:41 PM)
17	17	6.1	244.0	Yes	5270.0MHz, -64.0dBm	Single burst (01/04/2012 04:41:48 PM)
18	18	7.5	210.0	Yes	5280.0MHz, -64.0dBm	Single burst (01/04/2012 04:41:56 PM)
19	18	9.4	428.0	Yes	5275.0MHz, -64.0dBm	Single burst (01/04/2012 04:42:05 PM)
20	17	6.1	471.0	Yes	5270.0MHz, -64.0dBm	Single burst (01/04/2012 04:42:12 PM)
21	18	8.9	355.0	No	5280.0MHz, -64.0dBm	Single burst (01/04/2012 04:42:20 PM)
22	18	9.5	239.0	Yes	5275.0MHz, -64.0dBm	Single burst (01/04/2012 04:42:31 PM)
23	16	6.8	387.0	Yes	5270.0MHz, -64.0dBm	Single burst (01/04/2012 04:42:39 PM)
24	17	9.1	247.0	Yes	5280.0MHz, -64.0dBm	Single burst (01/04/2012 04:42:47 PM)
25	16	9.0	367.0	No	5275.0MHz, -64.0dBm	Single burst (01/04/2012 04:42:57 PM)
26	17	6.0	259.0	Yes	5270.0MHz, -64.0dBm	Single burst (01/04/2012 04:43:07 PM)
27	17	7.4	364.0	Yes	5280.0MHz, -64.0dBm	Single burst (01/04/2012 04:43:16 PM)
28	18	8.7	240.0	Yes	5275.0MHz, -64.0dBm	Single burst (01/04/2012 04:43:23 PM)
29	17	8.2	402.0	Yes	5270.0MHz, -64.0dBm	Single burst (01/04/2012 04:43:32 PM)
30	17	6.0	410.0	No	5280.0MHz, -64.0dBm	Single burst (01/04/2012 04:43:40 PM)

Table 12 - FCC Short Pulse Radar (Type 4) Results HT5						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
1	15	13.9	407.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:06:28 PM)
2	13	18.0	373.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:06:40 PM)
3	16	13.7	231.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:06:56 PM)
4	13	16.1	466.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:07:07 PM)
5	12	15.6	283.0	No	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:07:17 PM)
6	13	16.0	349.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:07:38 PM)
7	13	13.9	298.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:07:48 PM)
8	15	17.4	440.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:08:00 PM)
9	14	19.2	328.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:08:14 PM)
10	15	12.4	289.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:08:24 PM)
11	15	12.7	367.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:08:34 PM)
12	13	15.7	435.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:08:43 PM)
13	13	12.5	273.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:08:57 PM)
14	12	18.8	271.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:09:08 PM)
15	13	17.3	497.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:09:19 PM)
16	12	17.8	482.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:09:30 PM)
17	14	18.2	426.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:09:38 PM)
18	15	19.5	467.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:09:47 PM)
19	14	16.2	391.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:09:56 PM)
20	14	12.9	344.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:10:04 PM)
21	12	18.9	219.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:10:14 PM)
22	13	13.8	253.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:10:22 PM)
23	14	12.7	456.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:10:30 PM)
24	16	18.9	381.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:10:38 PM)
25	13	13.5	278.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:10:47 PM)
26	14	15.5	310.0	Yes	5300.0MHz,	Single burst (01/04/2012 04:11:00

Table 12 - FCC Short Pulse Radar (Type 4) Results HT5						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
					-64.0dBm	PM)
27	16	17.1	230.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:11:08 PM)
28	13	11.9	401.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:11:46 PM)
29	14	11.6	311.0	No	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:11:57 PM)
30	13	13.2	329.0	Yes	5300.0MHz, -64.0dBm	Single burst (01/04/2012 04:12:11 PM)

Table 13 - Long Sequence Waveform Summary HT5		
Long Sequence Trial	Result	Radar Frequency / Amplitude
Trial #1	Detected	5275.0MHz, -64.0dBm
Trial #2	Detected	5275.0MHz, -64.0dBm
Trial #3	Detected	5275.0MHz, -64.0dBm
Trial #4	NOT Detected	5275.0MHz, -64.0dBm
Trial #5	Detected	5275.0MHz, -64.0dBm
Trial #6	Detected	5275.0MHz, -64.0dBm
Trial #7	NOT Detected	5275.0MHz, -64.0dBm
Trial #8	Detected	5275.0MHz, -64.0dBm
Trial #9	Detected	5275.0MHz, -64.0dBm
Trial #10	Detected	5275.0MHz, -64.0dBm
Trial #11	Detected	5275.0MHz, -64.0dBm
Trial #12	Detected	5275.0MHz, -64.0dBm
Trial #13	Detected	5275.0MHz, -64.0dBm
Trial #14	Detected	5275.0MHz, -64.0dBm
Trial #15	Detected	5275.0MHz, -64.0dBm
Trial #16	Detected	5275.0MHz, -64.0dBm
Trial #17	Detected	5275.0MHz, -64.0dBm
Trial #18	Detected	5275.0MHz, -64.0dBm
Trial #19	Detected	5275.0MHz, -64.0dBm
Trial #20	Detected	5275.0MHz, -64.0dBm

Table 13 - Long Sequence Waveform Summary HT5		
Long Sequence Trial	Result	Radar Frequency / Amplitude
Trial #21	Detected	5275.0MHz, -64.0dBm
Trial #22	Detected	5275.0MHz, -64.0dBm
Trial #23	NOT Detected	5275.0MHz, -64.0dBm
Trial #24	Detected	5275.0MHz, -64.0dBm
Trial #25	Detected	5275.0MHz, -64.0dBm
Trial #26	Detected	5275.0MHz, -64.0dBm
Trial #27	Detected	5275.0MHz, -64.0dBm
Trial #28	Detected	5275.0MHz, -64.0dBm
Trial #29	Detected	5275.0MHz, -64.0dBm
Trial #30	Detected	5275.0MHz, -64.0dBm

Table 14 - HT5 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)
1	2	95.4	8	1732.0	-	0.657894
2	3	70.4	13	1739.0	1537.0	0.678582
3	2	68.7	15	1203.0	-	1.978886
4	3	77.4	5	1510.0	1071.0	2.496229
5	3	93.2	15	1003.0	1480.0	3.014728
6	3	79.6	18	1179.0	1508.0	3.788846
7	2	65.0	16	1883.0	-	4.033743
8	2	98.0	14	1187.0	-	5.081758
9	2	55.9	19	1023.0	-	5.505217
10	2	51.9	6	1422.0	-	6.008872
11	2	55.7	19	1651.0	-	6.863807
12	2	65.8	8	1331.0	-	7.486539
13	3	79.5	14	1028.0	1414.0	8.185268
14	2	85.2	17	1696.0	-	9.234208
15	2	85.0	20	1157.0	-	9.894264
16	3	57.6	6	1436.0	1805.0	10.625729
17	2	68.9	7	1912.0	-	11.135048
18	1	94.3	14	-	-	11.925037

Table 15 - HT5 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)
1	2	96.3	7	1159.0	-	0.330709
2	3	85.2	12	1151.0	1339.0	1.234553
3	3	72.3	13	1144.0	1265.0	2.339239
4	1	95.5	13	-	-	2.770832
5	1	53.5	11	-	-	4.085379
6	2	80.0	15	1719.0	-	5.391115

Table 15 - HT5 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)
7	1	77.7	7	-	-	6.430315
8	1	84.9	18	-	-	6.810390
9	2	95.0	19	1733.0	-	7.681131
10	2	56.4	16	1548.0	-	8.596551
11	3	69.1	17	1963.0	1082.0	9.266214
12	3	97.7	14	1036.0	1717.0	11.019192
13	3	50.4	8	1852.0	1782.0	11.211142

Table 16 - HT5 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)
1	1	89.4	13	-	-	0.799256
2	2	72.5	11	1950.0	-	2.069515
3	2	78.6	14	1142.0	-	3.423999
4	2	86.5	19	1725.0	-	4.523262
5	2	94.6	16	1442.0	-	5.027613
6	3	63.0	9	1165.0	1615.0	6.882933
7	2	63.1	15	1899.0	-	7.339702
8	1	84.9	9	-	-	9.162046
9	2	61.9	15	1033.0	-	10.247887
10	1	91.3	16	-	-	11.491733

Table 17 - HT5 Long Sequence Waveform Trial#4 (NOT Detected)						
Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
1	2	90.1	5	1569.0	-	0.559876
2	2	65.0	12	1328.0	-	0.709235
3	3	78.8	10	1175.0	1406.0	1.558367
4	3	65.3	17	1556.0	1953.0	2.323581
5	3	65.8	11	1078.0	1218.0	3.087139
6	2	80.7	10	1209.0	-	3.880314
7	1	52.7	9	-	-	4.918414
8	1	84.2	19	-	-	5.261193
9	2	90.3	12	1850.0	-	5.988090
10	2	92.0	15	1401.0	-	6.594952
11	2	95.9	10	1685.0	-	7.550733
12	2	72.5	12	1751.0	-	8.403736
13	2	95.5	9	1808.0	-	9.107609
14	1	78.6	17	-	-	9.184078
15	2	71.6	14	1143.0	-	9.965025
16	2	78.1	12	1044.0	-	11.097372
17	2	74.5	6	1101.0	-	11.632581

Table 18 - HT5 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)
1	2	91.0	12	1593.0	-	0.004324
2	3	56.2	13	1364.0	1443.0	1.238924
3	3	70.3	18	1709.0	1089.0	2.130857

Table 18 - HT5 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)
4	2	95.3	17	1092.0	-	2.486827
5	2	92.7	12	1995.0	-	3.600040
6	1	50.9	16	-	-	4.766149
7	3	68.5	10	1826.0	1248.0	5.218809
8	3	88.3	13	1063.0	1878.0	6.101336
9	2	55.8	20	1015.0	-	6.800108
10	2	87.4	9	1035.0	-	7.460645
11	2	69.6	16	1576.0	-	8.551445
12	3	62.3	13	1673.0	1119.0	8.806398
13	1	89.7	12	-	-	10.240282
14	3	58.4	17	1707.0	1776.0	11.175027
15	2	88.0	13	1490.0	-	11.443153

Table 19 - HT5 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)
1	2	72.8	16	1131.0	-	0.274289
2	1	58.8	13	-	-	1.101029
3	1	68.6	18	-	-	1.995214
4	2	82.3	9	1506.0	-	2.725949
5	2	85.3	7	1432.0	-	3.487738
6	3	81.8	17	1719.0	1917.0	3.827538
7	1	75.4	13	-	-	4.621250
8	1	76.9	7	-	-	5.507057
9	2	77.4	17	1273.0	-	6.118035
10	2	97.0	5	1376.0	-	7.496685
11	2	61.0	20	1726.0	-	8.113007
12	2	57.1	17	1022.0	-	8.584831
13	2	96.5	13	1396.0	-	9.118475
14	3	79.9	14	1062.0	1070.0	10.085845
15	2	51.3	11	1928.0	-	10.666120
16	2	96.3	10	1543.0	-	11.558468

Table 20 - HT5 Long Sequence Waveform Trial#7 (NOT Detected)						
Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
1	3	93.2	10	1021.0	1638.0	0.086704
2	1	74.2	6	-	-	1.779623
3	3	75.6	11	1288.0	1969.0	2.693846
4	2	93.8	11	1215.0	-	4.231165
5	1	62.4	7	-	-	4.832924
6	1	98.1	7	-	-	6.127349
7	2	60.7	10	1283.0	-	7.535359
8	2	59.4	11	1492.0	-	8.183509
9	2	79.3	9	1359.0	-	9.499633
10	3	63.8	15	1621.0	1791.0	10.509475
11	2	90.6	17	1208.0	-	11.445855

Table 21 - HT5 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)
1	2	59.9	18	1860.0	-	0.452975
2	2	60.7	7	1483.0	-	1.159101
3	2	80.2	7	1005.0	-	1.326827
4	3	81.4	10	1775.0	1043.0	2.151007
5	3	72.4	16	1069.0	1671.0	2.567484
6	3	64.0	20	1173.0	1785.0	3.377782
7	3	83.2	8	1135.0	1460.0	4.017172
8	2	68.8	10	1756.0	-	4.726571
9	1	89.4	6	-	-	5.346178
10	1	79.7	19	-	-	5.885414
11	2	56.3	17	1116.0	-	6.518550
12	2	88.2	13	1969.0	-	7.262717
13	1	80.2	12	-	-	7.655901
14	2	63.2	15	1545.0	-	8.496279
15	1	77.9	5	-	-	9.197006
16	2	86.3	5	1244.0	-	9.651495
17	1	53.8	6	-	-	10.668951
18	1	79.8	8	-	-	11.344981
19	2	57.7	13	1586.0	-	11.976264

Table 22 - HT5 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)
1	2	81.9	10	1792.0	-	0.314687
2	2	53.0	20	1034.0	-	1.222472
3	3	91.8	7	1243.0	1129.0	2.095637
4	2	87.4	16	1501.0	-	2.935559
5	1	79.4	16	-	-	3.191979
6	2	69.3	13	1642.0	-	4.203744
7	2	84.9	20	1600.0	-	4.792585
8	2	90.2	16	1674.0	-	5.866139
9	2	66.5	8	1032.0	-	6.261219
10	2	69.2	14	1662.0	-	6.882836
11	3	61.7	10	1304.0	1507.0	8.167303
12	2	55.7	7	1762.0	-	8.361839
13	1	73.9	13	-	-	9.037423
14	3	60.1	16	1669.0	1546.0	9.827208
15	2	64.0	6	1858.0	-	11.133889
16	2	90.2	13	1573.0	-	11.389587

Table 23 - HT5 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)
1	1	81.0	18	-	-	0.922145
2	3	90.4	18	1854.0	1622.0	1.816057
3	2	71.1	13	1714.0	-	1.922220
4	2	93.2	17	1397.0	-	3.050545
5	2	77.6	19	1336.0	-	4.341260
6	2	85.8	11	1001.0	-	5.435113
7	3	77.0	9	1843.0	1901.0	5.609888
8	2	60.8	7	1041.0	-	7.030061
9	2	57.1	15	1769.0	-	7.899054

Table 23 - HT5 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)
10	2	54.7	8	1469.0	-	8.370394
11	1	59.1	11	-	-	10.123659
12	3	99.4	17	1205.0	1194.0	10.187621
13	3	52.4	17	1449.0	1702.0	11.155734

Table 24 - HT5 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)
1	1	55.2	8	-	-	0.524570
2	2	69.0	17	1163.0	-	0.836907
3	2	68.9	14	1067.0	-	1.592615
4	3	75.3	7	1825.0	1852.0	2.805482
5	2	61.1	8	1744.0	-	2.933003
6	3	86.7	14	1312.0	1534.0	4.152248
7	2	52.5	13	1032.0	-	4.521547
8	2	65.3	13	1568.0	-	5.030994
9	2	69.9	6	1096.0	-	5.842145
10	2	61.1	16	1779.0	-	6.675271
11	1	58.7	14	-	-	7.659143
12	3	62.4	12	1060.0	1149.0	7.792528
13	1	98.1	15	-	-	8.506279
14	1	69.1	14	-	-	9.569382
15	2	63.0	10	1672.0	-	10.149893
16	1	83.4	16	-	-	10.676210
17	2	74.9	13	1409.0	-	11.561064

Table 25 - HT5 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)
1	2	95.2	11	1157.0	-	0.632398
2	1	75.3	6	-	-	1.003081
3	2	92.8	14	1616.0	-	1.414555
4	2	90.4	18	1782.0	-	2.435794
5	3	54.7	8	1298.0	1125.0	2.931613
6	3	65.9	18	1270.0	1309.0	3.825035
7	2	72.6	8	1103.0	-	4.464972
8	2	58.2	14	1328.0	-	5.550732
9	1	64.4	12	-	-	5.683506
10	2	94.8	8	1383.0	-	6.746391
11	1	68.0	9	-	-	7.726749
12	2	63.0	18	1611.0	-	8.093900
13	2	68.4	19	1432.0	-	8.584704
14	2	60.6	6	1883.0	-	9.493747
15	1	92.1	17	-	-	10.363421
16	1	75.4	18	-	-	10.837737
17	3	54.4	11	1610.0	1410.0	11.794685

Table 26 - HT5 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)
1	2	84.3	8	1695.0	-	0.415600
2	1	92.6	8	-	-	1.302832
3	2	93.4	5	1821.0	-	1.900215
4	2	95.0	19	1216.0	-	2.528990
5	2	85.1	19	1364.0	-	2.863855
6	1	99.2	5	-	-	3.967880
7	1	57.5	15	-	-	4.446936
8	2	80.2	19	1868.0	-	5.112629
9	1	86.7	14	-	-	6.327065
10	3	53.6	11	1959.0	1042.0	6.816477
11	2	63.1	11	1383.0	-	7.193566
12	3	84.5	10	1081.0	1281.0	8.400071
13	1	60.6	16	-	-	9.164507
14	2	53.3	16	1511.0	-	9.801698
15	2	77.3	8	1884.0	-	10.232624
16	2	57.5	5	1400.0	-	11.178507
17	1	70.2	5	-	-	11.558255

Table 27 - HT5 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)
1	2	78.8	13	1504.0	-	0.083595
2	3	53.4	6	1094.0	1866.0	1.608009
3	2	86.9	14	1857.0	-	2.534475
4	3	93.2	7	1604.0	1425.0	4.214747
5	3	58.6	5	1386.0	1698.0	5.311623
6	2	60.6	19	1479.0	-	6.522877
7	1	95.6	5	-	-	7.769159
8	2	51.5	13	1181.0	-	8.474668
9	1	73.1	15	-	-	9.767166
10	3	76.9	11	1213.0	1669.0	10.980339

Table 28 - HT5 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)
1	2	99.5	16	1765.0	-	0.428963
2	2	75.3	11	1689.0	-	1.555196
3	2	78.9	20	1473.0	-	2.774013
4	2	63.9	10	1476.0	-	4.840752
5	2	99.9	6	1991.0	-	5.750253
6	1	95.1	17	-	-	7.901644
7	3	99.0	14	1847.0	1200.0	9.032634
8	1	54.2	19	-	-	10.545115
9	1	77.9	9	-	-	11.953295

Table 29 - HT5 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)
1	3	59.9	7	1487.0	1837.0	0.038117
2	2	68.6	18	1373.0	-	1.364673
3	3	82.5	14	1128.0	1289.0	1.764852

Table 29 - HT5 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)
4	1	94.8	17	-	-	3.167514
5	1	73.3	7	-	-	3.610695
6	2	64.6	10	1590.0	-	4.198671
7	1	91.3	12	-	-	5.435356
8	2	72.1	12	1706.0	-	6.335914
9	1	61.5	10	-	-	7.014722
10	3	83.4	6	1883.0	1379.0	7.978862
11	2	75.3	16	1341.0	-	8.038619
12	2	67.2	11	1327.0	-	9.395811
13	1	57.4	12	-	-	9.840611
14	2	56.3	19	1876.0	-	11.007809
15	1	76.8	8	-	-	11.680554

Table 30 - HT5 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)
1	2	51.2	20	1235.0	-	0.142635
2	3	96.0	16	1331.0	1401.0	0.765665
3	2	58.3	8	1293.0	-	1.980928
4	1	68.5	20	-	-	2.657432
5	3	54.1	6	1709.0	1417.0	2.780630
6	3	83.1	6	1672.0	1526.0	3.512094
7	3	71.4	17	1957.0	1416.0	4.424109
8	3	87.5	18	1496.0	1391.0	5.060820
9	2	60.4	14	1549.0	-	5.454395
10	3	86.8	16	1764.0	1531.0	6.304051
11	2	61.3	11	1398.0	-	7.184491
12	1	89.4	15	-	-	7.711604
13	2	83.3	18	1028.0	-	8.489912
14	1	94.8	6	-	-	9.176648
15	2	85.3	15	1314.0	-	9.396803
16	3	87.0	13	1449.0	1799.0	10.406673
17	3	99.3	19	1673.0	1793.0	11.015661
18	1	71.5	11	-	-	11.472826

Table 31 - HT5 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)
1	2	57.4	5	1312.0	-	0.868741
2	2	56.2	7	1394.0	-	1.218843
3	2	88.8	12	1053.0	-	2.734476
4	3	84.5	10	1341.0	1205.0	3.104995
5	1	91.7	9	-	-	4.236703
6	2	53.9	14	1378.0	-	5.924158
7	1	95.3	7	-	-	6.184222
8	2	58.5	15	1646.0	-	7.704570
9	1	74.6	19	-	-	8.165576
10	2	96.0	5	1431.0	-	9.728756
11	2	80.0	18	1213.0	-	10.872958
12	2	50.8	10	1543.0	-	11.072546

Table 32 - HT5 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)
1	2	89.3	16	1154.0	-	0.033711
2	1	87.6	15	-	-	0.926081
3	3	69.2	18	1193.0	1059.0	2.195640
4	1	96.0	8	-	-	2.530001
5	2	80.6	7	1811.0	-	3.632101
6	2	62.4	16	1123.0	-	3.835007
7	3	60.3	7	1456.0	1039.0	4.839959
8	2	51.1	12	1462.0	-	5.533739
9	2	85.0	10	1161.0	-	6.422539
10	1	99.0	9	-	-	7.326556
11	2	62.8	11	1184.0	-	7.809653
12	2	53.6	17	1658.0	-	8.398085
13	2	99.0	14	1668.0	-	9.146837
14	3	78.9	18	1957.0	1531.0	10.304162
15	1	58.2	13	-	-	10.623826
16	3	70.3	11	1410.0	1397.0	11.491938

Table 33 - HT5 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)
1	2	52.4	18	1639.0	-	0.661970
2	1	98.8	7	-	-	1.031034
3	1	79.7	5	-	-	1.753005
4	2	51.7	18	1361.0	-	2.258780
5	3	53.7	15	1971.0	1161.0	3.563253
6	2	94.4	7	1210.0	-	4.334769
7	1	99.5	14	-	-	5.212847
8	1	63.7	11	-	-	5.767033
9	2	96.5	13	1556.0	-	6.580019
10	2	79.2	7	1920.0	-	7.173588
11	1	60.0	6	-	-	7.580271
12	3	54.0	16	1853.0	1333.0	8.312914
13	1	91.1	7	-	-	9.537367
14	2	77.4	15	1390.0	-	9.840061
15	2	96.3	17	1870.0	-	11.062469
16	3	73.4	7	1143.0	1290.0	11.885158

Table 34 - HT5 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)
1	3	73.0	5	1328.0	1831.0	0.697202
2	2	55.2	14	1321.0	-	2.600893
3	3	65.2	17	1175.0	1749.0	4.455408
4	3	93.7	14	1271.0	1512.0	5.724053
5	2	54.2	9	1391.0	-	7.137869
6	3	98.8	17	1782.0	1455.0	8.897111
7	2	78.5	14	1008.0	-	10.095028
8	1	85.7	9	-	-	11.287860

Table 35 - HT5 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)
1	1	90.2	5	-	-	1.049313
2	2	86.0	12	1340.0	-	2.909395
3	2	51.8	7	1353.0	-	3.142273
4	1	58.4	8	-	-	5.615315
5	2	98.2	11	1090.0	-	6.222557
6	3	66.8	12	1762.0	1784.0	7.989208
7	2	79.1	6	1281.0	-	10.112732
8	2	52.1	15	1629.0	-	11.461105

Table 36 - HT5 Long Sequence Waveform Trial#23 (NOT Detected)						
Burst #	# Pulses	Pulse Width (us)	Chirp (MHz)	Interval 1 to 2 (us)	Interval 2 to 3 (us)	Start time (us)
1	2	60.4	16	1255.0	-	0.613090
2	2	77.9	8	1556.0	-	1.043446
3	2	65.5	8	1559.0	-	1.526604
4	3	68.3	8	1127.0	1328.0	2.407939
5	1	77.0	8	-	-	2.937448
6	2	72.4	10	1803.0	-	3.495449
7	3	60.4	18	1777.0	1681.0	4.334744
8	1	50.9	7	-	-	4.761257
9	2	58.9	15	1070.0	-	5.501968
10	1	71.2	12	-	-	5.922743
11	3	55.6	12	1094.0	1663.0	6.370931
12	2	52.7	12	1893.0	-	7.117729
13	1	97.3	9	-	-	7.908470
14	3	89.2	16	1021.0	1852.0	8.775093
15	2	98.8	20	1251.0	-	9.325868
16	2	76.5	15	1315.0	-	9.811743
17	1	91.8	9	-	-	10.373937
18	2	91.7	15	1106.0	-	10.955924
19	3	87.5	17	1639.0	1711.0	11.421585

Table 37 - HT5 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)
1	2	93.1	6	1813.0	-	0.752168
2	3	70.5	14	1042.0	1614.0	1.165514
3	1	53.0	18	-	-	2.164170
4	1	53.2	20	-	-	3.116980
5	3	92.1	16	1065.0	1725.0	4.041788
6	2	59.9	13	1731.0	-	5.868233
7	3	82.0	12	1542.0	1204.0	6.147608
8	3	56.3	13	1883.0	1613.0	7.196375
9	2	57.9	16	1046.0	-	8.969828
10	1	66.1	16	-	-	9.055772
11	3	80.4	9	1199.0	1898.0	10.021010
12	3	52.8	17	1765.0	1016.0	11.975568

Table 38 - HT5 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)
1	2	97.8	14	1613.0	-	0.730298
2	3	71.8	14	1780.0	1974.0	1.225814
3	3	90.3	15	1917.0	1639.0	2.933119
4	3	85.3	11	1401.0	1740.0	3.661957
5	1	58.7	14	-	-	4.272731
6	2	88.4	15	1216.0	-	5.178149
7	3	90.5	10	1983.0	1005.0	6.086633
8	1	51.1	11	-	-	7.196331
9	1	76.5	18	-	-	8.517654
10	3	85.9	19	1668.0	1650.0	9.399217
11	2	89.3	11	1033.0	-	10.616537
12	2	77.3	6	1916.0	-	11.716196

Table 39 - HT5 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)
1	3	83.0	11	1981.0	1411.0	0.388452
2	2	53.9	5	1604.0	-	2.495483
3	2	91.9	8	1277.0	-	2.862314
4	3	72.4	16	1357.0	1890.0	4.120128
5	2	77.4	5	1778.0	-	5.498428
6	2	93.5	10	1322.0	-	7.953757
7	1	88.9	7	-	-	8.909302
8	1	82.8	9	-	-	10.109163
9	1	50.2	11	-	-	11.678716

Table 40 - HT5 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)
1	3	73.1	12	1382.0	1650.0	0.130474
2	1	82.5	17	-	-	1.506282
3	2	95.6	5	1248.0	-	2.688855
4	2	61.2	13	1529.0	-	4.152380
5	2	50.6	8	1549.0	-	4.535963
6	2	80.7	5	1364.0	-	5.567008
7	2	96.9	8	1985.0	-	6.715707
8	2	69.6	13	1974.0	-	8.602950
9	2	86.0	6	1468.0	-	8.984840
10	1	60.4	13	-	-	10.771911
11	2	73.9	6	1101.0	-	11.594335

Table 41 - HT5 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)
1	1	73.6	11	-	-	0.302827
2	2	66.0	6	1164.0	-	0.726754
3	1	98.2	14	-	-	1.888623
4	2	68.4	16	1358.0	-	2.126387
5	1	79.0	18	-	-	2.761189
6	2	51.6	19	1300.0	-	3.594347
7	2	62.5	8	1344.0	-	3.919922

Table 41 - HT5 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)
8	2	88.0	11	1214.0	-	4.907403
9	2	75.3	20	1957.0	-	5.063255
10	1	83.7	13	-	-	5.706452
11	3	80.1	17	1597.0	1357.0	6.570709
12	2	57.8	7	1391.0	-	7.560371
13	2	70.5	9	1107.0	-	7.583219
14	1	96.6	17	-	-	8.777923
15	2	77.5	8	1399.0	-	8.937167
16	2	70.3	10	1378.0	-	9.976700
17	1	90.9	14	-	-	10.233919
18	3	98.2	16	1004.0	1349.0	10.809614
19	1	91.8	14	-	-	11.687469

Table 42 - HT5 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)
1	3	82.6	14	1599.0	1338.0	0.593004
2	2	53.1	16	1443.0	-	0.848843
3	3	73.3	17	1427.0	1703.0	1.862095
4	2	78.8	11	1741.0	-	2.432723
5	2	54.0	15	1969.0	-	3.291913
6	1	60.6	10	-	-	4.494522
7	2	81.7	18	1292.0	-	5.043167
8	3	64.8	9	1050.0	1094.0	5.937146
9	2	82.3	6	1996.0	-	6.231810
10	1	90.2	19	-	-	7.090276
11	2	65.2	8	1149.0	-	7.845294
12	2	51.8	16	1259.0	-	8.785646
13	1	50.6	11	-	-	9.215135
14	2	63.1	13	1359.0	-	9.901223
15	1	96.4	18	-	-	10.698329
16	2	86.9	12	1310.0	-	11.598540

Table 43 - HT5 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)
1	2	61.3	12	1488.0	-	0.529436
2	2	91.1	19	1195.0	-	1.249771
3	1	50.6	11	-	-	2.023043
4	3	79.5	18	1549.0	1393.0	2.871282
5	1	86.6	16	-	-	4.214426
6	2	94.2	15	1968.0	-	4.857545
7	1	81.4	20	-	-	5.863124
8	2	82.0	11	1054.0	-	7.353466
9	2	69.8	10	1608.0	-	8.228689
10	2	76.1	7	1484.0	-	9.024635
11	3	95.2	19	1915.0	1601.0	9.803329
12	2	74.1	5	1679.0	-	11.041266
13	1	96.9	13	-	-	11.162643

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
1	9	1.0	333.0	Yes	5285.0MHz, -64.0dBm	Hop sequence: 5720, 5395, 5393, 5429, 5587, 5536, 5549, 5454, 5388, 5593, 5490, 5324, 5290, 5399, 5515, 5474, 5453, 5287, 5685, 5525, 5292, 5276, 5392, 5676, 5553, 5362, 5479, 5491, 5613, 5547, 5345, 5572, 5564, 5433, 5569, 5259, 5599, 5373, 5655, 5567, 5252, 5671, 5336, 5258, 5495, 5405, 5552, 5640, 5693, 5683, 5449, 5522, 5400, 5649, 5469, 5712, 5371, 5545, 5303, 5293, 5675, 5611, 5660, 5477, 5703, 5689, 5379, 5610, 5346, 5526, 5673, 5426, 5622, 5629, 5475, 5641, 5403, 5568, 5315, 5539, 5701, 5414, 5510, 5677, 5492, 5431, 5639, 5523, 5627, 5608, 5396, 5658, 5636, 5596, 5687, 5391, 5499, 5338, 5642, 5713 (6 hits) (01/04/2012 04:25:26 PM)
2	9	1.0	333.0	Yes	5286.0MHz, -64.0dBm	Hop sequence: 5393, 5348, 5445, 5384, 5345, 5436, 5387, 5470, 5504, 5455, 5466, 5399, 5484, 5625, 5552, 5419, 5475, 5530, 5556, 5615, 5590, 5329, 5389, 5704, 5444, 5646, 5353, 5333, 5588, 5555, 5680, 5602, 5260, 5390, 5376, 5494, 5301, 5581, 5271, 5341, 5412, 5442, 5447, 5630, 5433, 5464, 5478, 5579, 5428, 5548, 5666, 5536, 5355, 5557, 5572, 5413, 5382, 5689, 5366, 5610, 5648, 5662, 5691, 5298, 5626, 5710, 5432, 5334, 5653, 5307, 5619, 5318, 5468, 5337, 5559, 5539, 5357, 5488, 5269, 5700, 5676, 5580, 5489, 5564, 5449, 5251, 5254, 5274, 5482, 5391, 5308, 5325, 5516, 5664, 5323, 5315, 5320, 5519, 5314, 5623 (5 hits) (01/04/2012 04:25:39 PM)
3	9	1.0	333.0	Yes	5287.0MHz, -64.0dBm	Hop sequence: 5667, 5643, 5586, 5611, 5568, 5445, 5713, 5592, 5366, 5676, 5299, 5543, 5696, 5307, 5705, 5416, 5526, 5658, 5701, 5422, 5720, 5628, 5347, 5467, 5497, 5447, 5428, 5266, 5612, 5480, 5260, 5318, 5272, 5666, 5470, 5636, 5578, 5616, 5256, 5383, 5375, 5548, 5295, 5469, 5608, 5474, 5356, 5579,

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						5677, 5617, 5331, 5531, 5674, 5442, 5291, 5463, 5724, 5638, 5293, 5296, 5468, 5471, 5270, 5294, 5328, 5373, 5368, 5634, 5707, 5500, 5437, 5541, 5399, 5490, 5297, 5424, 5398, 5397, 5257, 5567, 5413, 5694, 5478, 5516, 5287, 5376, 5551, 5650, 5601, 5595, 5407, 5675, 5710, 5685, 5286, 5535, 5332, 5336, 5302, 5329 (13 hits) (01/04/2012 04:25:50 PM)
4	9	1.0	333.0	Yes	5288.0MHz, -64.0dBm	Hop sequence: 5466, 5331, 5596, 5552, 5708, 5433, 5625, 5338, 5723, 5499, 5330, 5715, 5366, 5321, 5411, 5327, 5424, 5280, 5678, 5425, 5709, 5391, 5314, 5645, 5703, 5370, 5443, 5571, 5361, 5648, 5287, 5470, 5305, 5420, 5681, 5290, 5646, 5589, 5260, 5513, 5298, 5586, 5263, 5437, 5550, 5462, 5685, 5293, 5275, 5622, 5633, 5497, 5605, 5340, 5475, 5323, 5585, 5579, 5555, 5641, 5400, 5680, 5632, 5546, 5515, 5382, 5291, 5337, 5343, 5674, 5510, 5598, 5542, 5441, 5329, 5376, 5272, 5255, 5508, 5308, 5623, 5533, 5603, 5526, 5393, 5472, 5660, 5498, 5297, 5295, 5568, 5634, 5316, 5383, 5502, 5638, 5523, 5450, 5356, 5402 (10 hits) (01/04/2012 04:26:00 PM)
5	9	1.0	333.0	Yes	5289.0MHz, -64.0dBm	Hop sequence: 5594, 5695, 5687, 5252, 5509, 5686, 5529, 5717, 5465, 5586, 5401, 5284, 5314, 5507, 5349, 5613, 5251, 5638, 5622, 5473, 5408, 5464, 5442, 5678, 5636, 5538, 5271, 5389, 5343, 5602, 5721, 5536, 5351, 5547, 5361, 5307, 5348, 5479, 5573, 5515, 5528, 5346, 5533, 5706, 5276, 5305, 5364, 5420, 5270, 5672, 5372, 5688, 5283, 5534, 5550, 5565, 5386, 5472, 5512, 5382, 5371, 5469, 5501, 5295, 5483, 5520, 5449, 5415, 5693, 5323, 5259, 5388, 5456, 5430, 5267, 5614, 5701, 5626, 5595, 5354, 5677, 5640, 5666, 5559, 5542, 5690, 5714, 5485, 5396, 5663, 5461, 5648, 5516, 5313, 5277, 5411, 5375, 5416, 5539, 5482 (8 hits) (01/04/2012

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						04:26:11 PM)
6	9	1.0	333.0	Yes	5290.0MHz, -64.0dBm	Hop sequence: 5660, 5333, 5357, 5380, 5573, 5312, 5419, 5415, 5561, 5340, 5503, 5293, 5375, 5411, 5311, 5712, 5547, 5642, 5310, 5465, 5382, 5451, 5664, 5491, 5613, 5568, 5274, 5255, 5629, 5607, 5495, 5659, 5371, 5577, 5715, 5394, 5630, 5444, 5638, 5281, 5485, 5569, 5429, 5527, 5330, 5469, 5282, 5323, 5640, 5565, 5486, 5550, 5301, 5377, 5354, 5466, 5369, 5692, 5388, 5652, 5679, 5379, 5596, 5549, 5663, 5454, 5534, 5493, 5462, 5332, 5386, 5564, 5713, 5505, 5610, 5672, 5667, 5719, 5305, 5445, 5463, 5290, 5269, 5422, 5697, 5543, 5541, 5665, 5680, 5458, 5570, 5589, 5460, 5710, 5344, 5414, 5618, 5331, 5278, 5612 (8 hits) (01/04/2012 04:26:21 PM)
7	9	1.0	333.0	Yes	5291.0MHz, -64.0dBm	Hop sequence: 5514, 5556, 5549, 5601, 5396, 5558, 5686, 5615, 5303, 5300, 5472, 5552, 5699, 5411, 5447, 5688, 5667, 5262, 5576, 5508, 5521, 5466, 5344, 5536, 5414, 5597, 5717, 5608, 5284, 5528, 5625, 5541, 5586, 5590, 5628, 5348, 5337, 5627, 5483, 5275, 5542, 5495, 5407, 5475, 5437, 5596, 5638, 5317, 5481, 5507, 5406, 5516, 5309, 5707, 5637, 5644, 5703, 5362, 5582, 5578, 5569, 5612, 5367, 5360, 5705, 5365, 5298, 5282, 5293, 5538, 5391, 5381, 5632, 5512, 5691, 5497, 5361, 5271, 5345, 5629, 5389, 5656, 5256, 5331, 5306, 5499, 5254, 5723, 5546, 5288, 5682, 5357, 5372, 5427, 5714, 5490, 5258, 5537, 5641, 5486 (9 hits) (01/04/2012 04:26:38 PM)
8	9	1.0	333.0	Yes	5292.0MHz, -64.0dBm	Hop sequence: 5382, 5521, 5452, 5395, 5531, 5682, 5716, 5532, 5473, 5524, 5631, 5722, 5332, 5595, 5253, 5645, 5424, 5715, 5642, 5292, 5423, 5299, 5597, 5305, 5670, 5481, 5379, 5541, 5400, 5638, 5507, 5719, 5574, 5376, 5704, 5557, 5657, 5280, 5353, 5512, 5403, 5714, 5612, 5607, 5422, 5267, 5432, 5519,

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						5647, 5338, 5396, 5568, 5277, 5301, 5447, 5565, 5641, 5410, 5712, 5381, 5465, 5287, 5510, 5430, 5542, 5365, 5590, 5271, 5672, 5562, 5401, 5611, 5725, 5586, 5604, 5450, 5418, 5724, 5699, 5503, 5356, 5265, 5311, 5419, 5444, 5414, 5594, 5388, 5449, 5667, 5584, 5355, 5440, 5324, 5494, 5558, 5436, 5628, 5646, 5525 (8 hits) (01/04/2012 04:27:10 PM)
9	9	1.0	333.0	Yes	5293.0MHz, -64.0dBm	Hop sequence: 5675, 5353, 5661, 5504, 5612, 5368, 5516, 5405, 5446, 5558, 5315, 5257, 5440, 5720, 5565, 5532, 5448, 5600, 5544, 5687, 5384, 5457, 5706, 5367, 5313, 5639, 5622, 5268, 5306, 5399, 5296, 5594, 5599, 5692, 5486, 5362, 5698, 5606, 5273, 5597, 5650, 5610, 5329, 5398, 5386, 5352, 5563, 5576, 5684, 5325, 5412, 5290, 5629, 5417, 5630, 5271, 5341, 5626, 5535, 5502, 5547, 5345, 5555, 5548, 5627, 5460, 5369, 5550, 5689, 5695, 5364, 5285, 5514, 5541, 5404, 5338, 5637, 5376, 5634, 5335, 5301, 5435, 5605, 5255, 5507, 5562, 5624, 5713, 5569, 5617, 5372, 5433, 5286, 5668, 5277, 5466, 5356, 5420, 5602, 5524 (9 hits) (01/04/2012 04:27:21 PM)
10	9	1.0	333.0	Yes	5294.0MHz, -64.0dBm	Hop sequence: 5479, 5661, 5315, 5295, 5469, 5651, 5612, 5344, 5375, 5625, 5345, 5414, 5341, 5259, 5386, 5306, 5581, 5389, 5488, 5540, 5363, 5559, 5697, 5513, 5548, 5483, 5512, 5571, 5564, 5337, 5692, 5595, 5263, 5585, 5693, 5358, 5682, 5600, 5472, 5438, 5584, 5480, 5617, 5352, 5283, 5384, 5415, 5310, 5391, 5717, 5402, 5723, 5529, 5537, 5521, 5653, 5698, 5590, 5674, 5410, 5385, 5570, 5318, 5550, 5254, 5686, 5372, 5673, 5583, 5425, 5284, 5282, 5422, 5300, 5716, 5291, 5442, 5495, 5290, 5323, 5270, 5383, 5331, 5325, 5492, 5721, 5302, 5353, 5481, 5340, 5451, 5257, 5342, 5459, 5601, 5589, 5321, 5348, 5504, 5454 (9 hits) (01/04/2012

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						04:27:31 PM)
11	9	1.0	333.0	Yes	5295.0MHz, -64.0dBm	Hop sequence: 5421, 5501, 5583, 5281, 5701, 5554, 5309, 5289, 5327, 5589, 5550, 5447, 5666, 5497, 5643, 5337, 5298, 5619, 5373, 5602, 5506, 5432, 5721, 5355, 5504, 5647, 5614, 5313, 5405, 5725, 5604, 5311, 5689, 5664, 5652, 5626, 5716, 5358, 5416, 5293, 5290, 5570, 5553, 5354, 5498, 5279, 5521, 5425, 5263, 5559, 5585, 5282, 5694, 5654, 5480, 5635, 5466, 5433, 5650, 5613, 5605, 5347, 5265, 5472, 5490, 5708, 5399, 5712, 5360, 5541, 5563, 5476, 5271, 5723, 5376, 5305, 5431, 5499, 5436, 5333, 5603, 5709, 5610, 5468, 5575, 5422, 5315, 5341, 5584, 5710, 5364, 5361, 5538, 5445, 5542, 5551, 5312, 5266, 5259, 5601 (9 hits) (01/04/2012 04:27:42 PM)
12	9	1.0	333.0	Yes	5296.0MHz, -64.0dBm	Hop sequence: 5543, 5367, 5451, 5468, 5304, 5521, 5394, 5565, 5466, 5440, 5273, 5278, 5351, 5716, 5437, 5443, 5621, 5592, 5697, 5539, 5250, 5386, 5606, 5269, 5357, 5289, 5689, 5438, 5363, 5504, 5277, 5663, 5313, 5342, 5718, 5577, 5369, 5257, 5551, 5558, 5575, 5391, 5553, 5295, 5672, 5719, 5393, 5402, 5299, 5603, 5493, 5403, 5550, 5711, 5462, 5701, 5276, 5445, 5640, 5513, 5571, 5259, 5597, 5598, 5424, 5717, 5483, 5368, 5376, 5260, 5275, 5441, 5303, 5341, 5561, 5659, 5444, 5315, 5684, 5390, 5467, 5361, 5611, 5605, 5608, 5389, 5329, 5491, 5516, 5432, 5431, 5336, 5555, 5724, 5695, 5607, 5643, 5572, 5636, 5687 (11 hits) (01/04/2012 04:27:57 PM)
13	9	1.0	333.0	Yes	5297.0MHz, -64.0dBm	Hop sequence: 5391, 5363, 5339, 5379, 5672, 5299, 5594, 5690, 5387, 5533, 5604, 5286, 5446, 5683, 5451, 5287, 5708, 5392, 5361, 5700, 5610, 5364, 5411, 5694, 5581, 5270, 5343, 5467, 5481, 5360, 5432, 5324, 5410, 5261, 5470, 5295, 5493, 5445, 5269, 5272, 5463, 5490, 5409, 5341, 5303, 5682, 5695, 5513,

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						5456, 5635, 5507, 5468, 5637, 5636, 5689, 5645, 5278, 5609, 5622, 5458, 5285, 5679, 5250, 5358, 5417, 5611, 5685, 5302, 5655, 5448, 5647, 5559, 5538, 5633, 5560, 5615, 5652, 5322, 5638, 5333, 5441, 5711, 5345, 5460, 5667, 5442, 5698, 5707, 5281, 5474, 5350, 5300, 5306, 5628, 5356, 5718, 5374, 5572, 5395, 5346 (13 hits) (01/04/2012 04:28:14 PM)
14	9	1.0	333.0	Yes	5298.0MHz, -64.0dBm	Hop sequence: 5698, 5592, 5427, 5397, 5587, 5420, 5251, 5308, 5386, 5352, 5726, 5680, 5477, 5281, 5468, 5509, 5484, 5326, 5334, 5542, 5479, 5286, 5353, 5417, 5305, 5717, 5322, 5639, 5250, 5345, 5681, 5296, 5716, 5259, 5547, 5631, 5360, 5301, 5323, 5394, 5601, 5522, 5529, 5660, 5453, 5642, 5368, 5409, 5506, 5677, 5403, 5670, 5423, 5679, 5668, 5436, 5549, 5355, 5501, 5555, 5630, 5544, 5658, 5533, 5654, 5552, 5278, 5476, 5350, 5638, 5481, 5398, 5252, 5297, 5361, 5275, 5283, 5603, 5432, 5488, 5429, 5404, 5434, 5641, 5441, 5714, 5358, 5327, 5486, 5588, 5510, 5724, 5620, 5267, 5414, 5498, 5669, 5316, 5456, 5539 (9 hits) (01/04/2012 04:29:32 PM)
15	9	1.0	333.0	Yes	5299.0MHz, -64.0dBm	Hop sequence: 5419, 5598, 5657, 5604, 5580, 5564, 5362, 5459, 5694, 5636, 5593, 5711, 5483, 5672, 5592, 5452, 5524, 5535, 5271, 5469, 5669, 5259, 5329, 5283, 5629, 5432, 5691, 5319, 5381, 5335, 5706, 5582, 5578, 5499, 5638, 5510, 5696, 5574, 5449, 5490, 5411, 5317, 5650, 5546, 5581, 5373, 5505, 5413, 5332, 5723, 5473, 5251, 5530, 5526, 5515, 5718, 5517, 5647, 5431, 5513, 5378, 5725, 5427, 5275, 5386, 5633, 5724, 5352, 5720, 5285, 5330, 5631, 5477, 5326, 5521, 5563, 5645, 5549, 5614, 5695, 5369, 5291, 5628, 5489, 5360, 5719, 5393, 5704, 5726, 5368, 5370, 5701, 5341, 5424, 5412, 5665, 5552, 5375, 5363, 5494 (5 hits) (01/04/2012

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						04:29:43 PM)
16	9	1.0	333.0	Yes	5300.0MHz, -64.0dBm	Hop sequence: 5514, 5321, 5687, 5329, 5396, 5316, 5594, 5535, 5332, 5362, 5285, 5299, 5252, 5338, 5715, 5630, 5372, 5656, 5492, 5402, 5721, 5407, 5655, 5528, 5472, 5717, 5570, 5294, 5669, 5280, 5657, 5309, 5702, 5418, 5705, 5516, 5387, 5340, 5518, 5292, 5255, 5448, 5581, 5495, 5668, 5358, 5328, 5600, 5470, 5397, 5527, 5260, 5444, 5640, 5304, 5701, 5421, 5725, 5610, 5616, 5582, 5712, 5293, 5624, 5342, 5614, 5513, 5533, 5473, 5310, 5543, 5312, 5300, 5554, 5403, 5498, 5393, 5424, 5675, 5597, 5354, 5571, 5682, 5714, 5339, 5532, 5452, 5351, 5652, 5350, 5629, 5634, 5395, 5700, 5561, 5412, 5327, 5706, 5662, 5451 (8 hits) (01/04/2012 04:29:57 PM)
17	9	1.0	333.0	Yes	5301.0MHz, -64.0dBm	Hop sequence: 5349, 5415, 5656, 5692, 5264, 5404, 5566, 5300, 5441, 5502, 5714, 5430, 5365, 5646, 5335, 5356, 5297, 5333, 5353, 5450, 5631, 5390, 5269, 5655, 5347, 5565, 5290, 5720, 5484, 5311, 5483, 5609, 5691, 5553, 5577, 5328, 5527, 5309, 5305, 5508, 5458, 5716, 5633, 5384, 5532, 5280, 5459, 5629, 5525, 5489, 5364, 5431, 5307, 5521, 5444, 5530, 5327, 5635, 5681, 5446, 5604, 5675, 5301, 5277, 5289, 5462, 5263, 5703, 5488, 5274, 5486, 5318, 5602, 5464, 5399, 5388, 5478, 5419, 5568, 5503, 5534, 5475, 5386, 5256, 5650, 5461, 5396, 5708, 5496, 5517, 5380, 5542, 5345, 5402, 5620, 5644, 5340, 5346, 5287, 5413 (10 hits) (01/04/2012 04:30:14 PM)
18	9	1.0	333.0	Yes	5302.0MHz, -64.0dBm	Hop sequence: 5253, 5434, 5657, 5475, 5408, 5524, 5645, 5682, 5638, 5590, 5660, 5378, 5419, 5265, 5295, 5531, 5655, 5719, 5442, 5502, 5575, 5311, 5523, 5322, 5464, 5610, 5666, 5359, 5620, 5251, 5552, 5715, 5718, 5334, 5651, 5698, 5382, 5260, 5537, 5702, 5497, 5445, 5562, 5414, 5358, 5612, 5713, 5632,

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						5456, 5664, 5409, 5572, 5310, 5403, 5468, 5639, 5443, 5469, 5603, 5309, 5594, 5329, 5394, 5500, 5291, 5276, 5693, 5465, 5642, 5700, 5307, 5527, 5634, 5372, 5269, 5444, 5321, 5360, 5338, 5451, 5591, 5712, 5650, 5708, 5421, 5343, 5488, 5481, 5272, 5597, 5252, 5520, 5652, 5293, 5544, 5609, 5613, 5678, 5539, 5391 (6 hits) (01/04/2012 04:30:30 PM)
19	9	1.0	333.0	Yes	5303.0MHz, -64.0dBm	Hop sequence: 5424, 5326, 5525, 5694, 5435, 5558, 5600, 5632, 5507, 5468, 5335, 5368, 5492, 5617, 5653, 5469, 5493, 5649, 5459, 5594, 5670, 5318, 5463, 5522, 5370, 5250, 5608, 5697, 5676, 5313, 5709, 5456, 5314, 5501, 5698, 5398, 5445, 5724, 5491, 5659, 5529, 5431, 5347, 5625, 5294, 5532, 5634, 5603, 5590, 5322, 5272, 5359, 5453, 5268, 5340, 5308, 5379, 5531, 5467, 5685, 5476, 5534, 5348, 5645, 5547, 5543, 5299, 5700, 5652, 5693, 5448, 5383, 5513, 5571, 5279, 5618, 5423, 5647, 5668, 5320, 5365, 5644, 5716, 5371, 5399, 5265, 5339, 5538, 5367, 5536, 5627, 5688, 5629, 5648, 5473, 5566, 5396, 5393, 5615, 5551 (5 hits) (01/04/2012 04:30:50 PM)
20	9	1.0	333.0	Yes	5304.0MHz, -64.0dBm	Hop sequence: 5683, 5719, 5436, 5261, 5501, 5291, 5712, 5698, 5264, 5458, 5358, 5573, 5355, 5681, 5395, 5412, 5389, 5254, 5288, 5398, 5614, 5447, 5397, 5663, 5462, 5269, 5451, 5668, 5257, 5321, 5359, 5273, 5345, 5333, 5538, 5542, 5648, 5386, 5505, 5515, 5302, 5547, 5308, 5555, 5492, 5601, 5367, 5371, 5677, 5570, 5661, 5592, 5485, 5280, 5521, 5701, 5431, 5509, 5565, 5507, 5309, 5475, 5600, 5640, 5510, 5546, 5493, 5452, 5660, 5686, 5650, 5392, 5721, 5317, 5574, 5282, 5703, 5706, 5506, 5444, 5265, 5472, 5582, 5278, 5430, 5381, 5416, 5567, 5520, 5301, 5279, 5606, 5375, 5656, 5417, 5380, 5704, 5290, 5255, 5693 (11 hits) (01/04/2012

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						04:31:01 PM)
21	9	1.0	333.0	Yes	5266.0MHz, -64.0dBm	Hop sequence: 5496, 5672, 5389, 5313, 5297, 5355, 5426, 5415, 5639, 5618, 5589, 5275, 5592, 5547, 5450, 5360, 5257, 5305, 5272, 5407, 5366, 5651, 5722, 5268, 5703, 5590, 5506, 5365, 5410, 5335, 5695, 5464, 5479, 5295, 5334, 5614, 5363, 5509, 5425, 5696, 5324, 5303, 5280, 5287, 5622, 5494, 5326, 5554, 5507, 5486, 5708, 5605, 5435, 5555, 5626, 5434, 5633, 5721, 5358, 5655, 5538, 5718, 5269, 5607, 5616, 5491, 5454, 5623, 5442, 5337, 5466, 5353, 5477, 5654, 5581, 5673, 5393, 5533, 5638, 5525, 5680, 5500, 5264, 5291, 5548, 5440, 5628, 5276, 5481, 5252, 5369, 5281, 5675, 5598, 5541, 5362, 5627, 5396, 5399, 5386 (12 hits) (01/04/2012 04:31:12 PM)
22	9	1.0	333.0	Yes	5267.0MHz, -64.0dBm	Hop sequence: 5448, 5665, 5385, 5415, 5537, 5316, 5307, 5263, 5266, 5367, 5305, 5696, 5383, 5475, 5426, 5637, 5524, 5639, 5616, 5310, 5606, 5555, 5278, 5628, 5667, 5648, 5344, 5619, 5400, 5714, 5328, 5531, 5708, 5666, 5392, 5354, 5632, 5434, 5515, 5441, 5622, 5459, 5412, 5357, 5379, 5485, 5463, 5452, 5545, 5427, 5391, 5364, 5286, 5725, 5629, 5523, 5327, 5460, 5417, 5595, 5340, 5322, 5697, 5314, 5395, 5529, 5548, 5451, 5679, 5706, 5705, 5494, 5649, 5592, 5568, 5347, 5642, 5366, 5643, 5324, 5499, 5561, 5272, 5337, 5586, 5547, 5358, 5599, 5563, 5372, 5517, 5403, 5508, 5507, 5365, 5715, 5641, 5421, 5589, 5726 (4 hits) (01/04/2012 04:31:21 PM)
23	9	1.0	333.0	Yes	5268.0MHz, -64.0dBm	Hop sequence: 5623, 5356, 5501, 5654, 5387, 5618, 5665, 5523, 5473, 5493, 5288, 5517, 5639, 5645, 5426, 5375, 5502, 5359, 5604, 5565, 5579, 5584, 5568, 5561, 5681, 5540, 5368, 5626, 5700, 5431, 5477, 5449, 5552, 5642, 5613, 5470, 5391, 5472, 5355, 5392, 5718, 5702, 5547, 5676, 5310, 5267, 5485, 5285,

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						5314, 5458, 5367, 5482, 5553, 5653, 5538, 5352, 5569, 5571, 5296, 5544, 5378, 5339, 5577, 5284, 5306, 5725, 5295, 5347, 5638, 5648, 5400, 5617, 5669, 5277, 5591, 5529, 5504, 5583, 5297, 5644, 5456, 5254, 5554, 5627, 5555, 5450, 5503, 5394, 5338, 5443, 5594, 5580, 5411, 5322, 5558, 5691, 5414, 5534, 5707, 5514 (8 hits) (01/04/2012 04:31:31 PM)
24	9	1.0	333.0	Yes	5269.0MHz, -64.0dBm	Hop sequence: 5619, 5529, 5645, 5275, 5285, 5297, 5278, 5451, 5573, 5671, 5491, 5609, 5448, 5693, 5561, 5375, 5426, 5368, 5599, 5643, 5664, 5636, 5291, 5504, 5438, 5408, 5307, 5393, 5598, 5270, 5545, 5315, 5494, 5510, 5260, 5635, 5601, 5402, 5474, 5623, 5684, 5624, 5566, 5550, 5482, 5570, 5345, 5606, 5499, 5648, 5502, 5289, 5373, 5630, 5446, 5523, 5614, 5441, 5314, 5707, 5514, 5556, 5299, 5637, 5263, 5316, 5444, 5603, 5268, 5452, 5483, 5252, 5422, 5295, 5325, 5548, 5409, 5436, 5660, 5471, 5592, 5357, 5594, 5429, 5302, 5503, 5330, 5401, 5620, 5349, 5617, 5721, 5344, 5290, 5394, 5365, 5615, 5493, 5309, 5668 (12 hits) (01/04/2012 04:31:40 PM)
25	9	1.0	333.0	Yes	5270.0MHz, -64.0dBm	Hop sequence: 5661, 5620, 5548, 5568, 5497, 5624, 5309, 5583, 5329, 5610, 5655, 5584, 5614, 5254, 5585, 5663, 5340, 5312, 5676, 5432, 5678, 5556, 5683, 5352, 5295, 5710, 5385, 5431, 5297, 5606, 5507, 5403, 5639, 5293, 5342, 5717, 5607, 5395, 5290, 5470, 5601, 5644, 5634, 5306, 5523, 5559, 5361, 5467, 5716, 5382, 5370, 5413, 5672, 5595, 5281, 5701, 5304, 5454, 5253, 5411, 5492, 5551, 5675, 5649, 5264, 5692, 5632, 5491, 5648, 5346, 5487, 5613, 5269, 5384, 5625, 5366, 5510, 5265, 5721, 5255, 5485, 5283, 5508, 5426, 5498, 5515, 5274, 5499, 5602, 5662, 5573, 5594, 5273, 5441, 5628, 5305, 5423, 5726, 5682, 5448 (10 hits) (01/04/2012

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						04:31:49 PM)
26	9	1.0	333.0	Yes	5271.0MHz, -64.0dBm	Hop sequence: 5252, 5271, 5512, 5598, 5451, 5274, 5454, 5272, 5463, 5623, 5305, 5309, 5688, 5337, 5625, 5324, 5312, 5573, 5477, 5299, 5644, 5255, 5468, 5433, 5389, 5650, 5459, 5307, 5296, 5478, 5287, 5475, 5503, 5278, 5361, 5298, 5531, 5608, 5394, 5467, 5710, 5651, 5250, 5264, 5341, 5487, 5700, 5630, 5366, 5318, 5369, 5450, 5347, 5570, 5482, 5402, 5635, 5519, 5481, 5323, 5645, 5345, 5429, 5546, 5715, 5539, 5501, 5691, 5301, 5326, 5375, 5515, 5494, 5364, 5535, 5500, 5257, 5538, 5466, 5510, 5699, 5580, 5712, 5302, 5648, 5615, 5474, 5694, 5613, 5445, 5666, 5616, 5461, 5592, 5343, 5564, 5499, 5438, 5480, 5518 (10 hits) (01/04/2012 04:31:57 PM)
27	9	1.0	333.0	Yes	5272.0MHz, -64.0dBm	Hop sequence: 5593, 5440, 5284, 5552, 5311, 5337, 5522, 5683, 5449, 5459, 5548, 5350, 5594, 5346, 5496, 5388, 5571, 5264, 5511, 5536, 5450, 5451, 5297, 5475, 5362, 5587, 5412, 5675, 5655, 5392, 5555, 5509, 5328, 5424, 5605, 5293, 5361, 5446, 5391, 5254, 5707, 5270, 5262, 5387, 5318, 5290, 5576, 5430, 5335, 5656, 5369, 5663, 5647, 5331, 5551, 5352, 5487, 5291, 5438, 5526, 5544, 5506, 5676, 5277, 5684, 5276, 5708, 5427, 5298, 5557, 5313, 5508, 5668, 5491, 5514, 5681, 5598, 5433, 5435, 5724, 5632, 5320, 5480, 5377, 5599, 5622, 5415, 5513, 5280, 5621, 5428, 5471, 5634, 5714, 5706, 5370, 5688, 5394, 5518, 5608 (10 hits) (01/04/2012 04:32:06 PM)
28	9	1.0	333.0	Yes	5273.0MHz, -64.0dBm	Hop sequence: 5418, 5638, 5592, 5630, 5673, 5699, 5477, 5433, 5465, 5401, 5714, 5607, 5350, 5636, 5329, 5460, 5680, 5408, 5392, 5252, 5307, 5618, 5534, 5281, 5526, 5642, 5327, 5267, 5669, 5375, 5716, 5494, 5332, 5674, 5363, 5621, 5259, 5328, 5511, 5509, 5581, 5442, 5614, 5298, 5562, 5648, 5582, 5721,

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						5578, 5463, 5282, 5308, 5558, 5272, 5333, 5613, 5516, 5646, 5399, 5432, 5466, 5287, 5396, 5641, 5264, 5513, 5686, 5628, 5263, 5683, 5386, 5481, 5336, 5538, 5637, 5330, 5560, 5595, 5667, 5434, 5553, 5412, 5411, 5274, 5682, 5685, 5505, 5268, 5512, 5487, 5446, 5559, 5645, 5649, 5604, 5702, 5319, 5533, 5586, 5323 (8 hits) (01/04/2012 04:32:15 PM)
29	9	1.0	333.0	Yes	5274.0MHz, -64.0dBm	Hop sequence: 5451, 5259, 5693, 5480, 5709, 5354, 5364, 5400, 5407, 5503, 5502, 5653, 5382, 5540, 5718, 5412, 5289, 5429, 5359, 5554, 5632, 5541, 5663, 5452, 5374, 5676, 5564, 5422, 5491, 5293, 5420, 5504, 5537, 5495, 5470, 5626, 5723, 5467, 5483, 5377, 5725, 5418, 5667, 5333, 5484, 5341, 5391, 5661, 5553, 5692, 5512, 5269, 5678, 5683, 5657, 5535, 5699, 5567, 5552, 5620, 5361, 5454, 5529, 5302, 5608, 5545, 5621, 5720, 5265, 5346, 5643, 5432, 5306, 5394, 5398, 5339, 5393, 5724, 5262, 5572, 5290, 5445, 5585, 5606, 5707, 5520, 5726, 5516, 5387, 5710, 5671, 5385, 5367, 5549, 5496, 5713, 5330, 5614, 5305, 5260 (5 hits) (01/04/2012 04:32:24 PM)
30	9	1.0	333.0	Yes	5275.0MHz, -64.0dBm	Hop sequence: 5278, 5322, 5250, 5611, 5483, 5490, 5367, 5529, 5525, 5338, 5687, 5463, 5510, 5366, 5416, 5597, 5253, 5544, 5289, 5368, 5321, 5383, 5262, 5556, 5528, 5535, 5712, 5615, 5485, 5491, 5509, 5695, 5601, 5562, 5653, 5354, 5397, 5291, 5518, 5558, 5380, 5592, 5333, 5261, 5588, 5275, 5543, 5635, 5553, 5618, 5606, 5583, 5280, 5426, 5332, 5604, 5400, 5437, 5444, 5627, 5566, 5448, 5345, 5531, 5677, 5461, 5660, 5526, 5587, 5263, 5514, 5348, 5311, 5534, 5498, 5701, 5330, 5683, 5721, 5554, 5477, 5722, 5612, 5700, 5710, 5418, 5423, 5258, 5674, 5353, 5547, 5537, 5479, 5323, 5691, 5454, 5328, 5474, 5668, 5696 (5 hits) (01/04/2012

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						04:32:33 PM)
31	9	1.0	333.0	Yes	5276.0MHz, -64.0dBm	Hop sequence: 5269, 5664, 5695, 5637, 5607, 5705, 5627, 5344, 5288, 5448, 5559, 5517, 5317, 5417, 5583, 5721, 5264, 5445, 5290, 5680, 5524, 5576, 5707, 5566, 5584, 5361, 5354, 5504, 5527, 5651, 5601, 5421, 5590, 5314, 5609, 5723, 5691, 5516, 5523, 5650, 5413, 5581, 5623, 5720, 5256, 5552, 5597, 5724, 5560, 5506, 5631, 5716, 5359, 5395, 5307, 5430, 5536, 5553, 5345, 5291, 5437, 5579, 5381, 5578, 5375, 5321, 5402, 5433, 5497, 5661, 5725, 5549, 5406, 5492, 5513, 5532, 5355, 5300, 5304, 5277, 5340, 5302, 5452, 5531, 5254, 5600, 5407, 5675, 5683, 5676, 5380, 5336, 5301, 5647, 5608, 5718, 5679, 5508, 5404, 5470 (9 hits) (01/04/2012 04:32:43 PM)
32	9	1.0	333.0	Yes	5277.0MHz, -64.0dBm	Hop sequence: 5420, 5646, 5560, 5353, 5372, 5451, 5515, 5594, 5271, 5519, 5568, 5289, 5569, 5489, 5625, 5618, 5367, 5612, 5315, 5471, 5703, 5621, 5296, 5379, 5493, 5363, 5447, 5573, 5436, 5677, 5517, 5303, 5377, 5629, 5460, 5522, 5456, 5453, 5488, 5678, 5604, 5430, 5424, 5670, 5679, 5443, 5713, 5554, 5306, 5563, 5600, 5714, 5380, 5523, 5312, 5533, 5583, 5275, 5276, 5317, 5327, 5286, 5323, 5434, 5613, 5411, 5357, 5632, 5555, 5587, 5370, 5726, 5344, 5260, 5261, 5574, 5409, 5368, 5384, 5395, 5516, 5688, 5251, 5435, 5361, 5288, 5252, 5392, 5475, 5642, 5273, 5541, 5539, 5328, 5608, 5664, 5486, 5722, 5318, 5389 (9 hits) (01/04/2012 04:33:12 PM)
33	9	1.0	333.0	Yes	5278.0MHz, -64.0dBm	Hop sequence: 5650, 5582, 5371, 5604, 5504, 5484, 5565, 5542, 5601, 5251, 5588, 5420, 5493, 5547, 5543, 5627, 5693, 5295, 5394, 5498, 5562, 5544, 5634, 5665, 5611, 5555, 5416, 5362, 5337, 5286, 5605, 5668, 5517, 5706, 5621, 5559, 5714, 5331, 5408, 5332, 5669, 5641, 5486, 5421, 5411, 5318, 5384, 5274,

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						5423, 5476, 5677, 5664, 5437, 5652, 5317, 5253, 5395, 5697, 5349, 5495, 5620, 5613, 5418, 5343, 5663, 5429, 5635, 5576, 5596, 5406, 5610, 5483, 5703, 5709, 5646, 5252, 5435, 5649, 5546, 5593, 5530, 5707, 5333, 5430, 5289, 5694, 5315, 5691, 5488, 5450, 5292, 5358, 5522, 5591, 5513, 5654, 5566, 5490, 5525, 5667 (5 hits) (01/04/2012 04:33:20 PM)
34	9	1.0	333.0	Yes	5279.0MHz, -64.0dBm	Hop sequence: 5279, 5648, 5695, 5614, 5251, 5630, 5255, 5588, 5480, 5579, 5650, 5681, 5714, 5297, 5533, 5532, 5568, 5385, 5509, 5450, 5510, 5552, 5433, 5446, 5441, 5373, 5342, 5522, 5288, 5402, 5542, 5669, 5597, 5358, 5557, 5617, 5516, 5261, 5682, 5399, 5349, 5592, 5520, 5613, 5619, 5447, 5636, 5559, 5252, 5442, 5421, 5330, 5270, 5701, 5306, 5475, 5657, 5387, 5411, 5512, 5283, 5703, 5590, 5341, 5497, 5479, 5601, 5720, 5289, 5365, 5573, 5704, 5313, 5400, 5312, 5253, 5641, 5332, 5374, 5504, 5486, 5513, 5490, 5395, 5607, 5645, 5541, 5275, 5577, 5575, 5359, 5611, 5514, 5671, 5320, 5572, 5680, 5584, 5467, 5519 (7 hits) (01/04/2012 04:33:28 PM)
35	9	1.0	333.0	Yes	5280.0MHz, -64.0dBm	Hop sequence: 5623, 5680, 5327, 5604, 5484, 5268, 5649, 5282, 5309, 5566, 5346, 5486, 5689, 5455, 5500, 5533, 5334, 5499, 5272, 5261, 5275, 5540, 5474, 5412, 5426, 5525, 5662, 5417, 5440, 5439, 5344, 5707, 5722, 5615, 5725, 5438, 5636, 5718, 5572, 5409, 5340, 5659, 5358, 5380, 5547, 5589, 5564, 5691, 5401, 5698, 5436, 5308, 5429, 5459, 5473, 5638, 5311, 5694, 5427, 5269, 5323, 5648, 5432, 5678, 5630, 5373, 5378, 5660, 5273, 5411, 5618, 5592, 5487, 5393, 5397, 5538, 5634, 5394, 5469, 5320, 5359, 5266, 5521, 5281, 5531, 5350, 5274, 5595, 5336, 5621, 5708, 5668, 5671, 5400, 5450, 5495, 5629, 5633, 5414, 5576 (9 hits) (01/04/2012

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						04:33:36 PM)
36	9	1.0	333.0	Yes	5281.0MHz, -64.0dBm	Hop sequence: 5604, 5549, 5481, 5601, 5337, 5369, 5277, 5463, 5650, 5348, 5678, 5657, 5278, 5591, 5508, 5255, 5512, 5394, 5527, 5379, 5294, 5531, 5691, 5297, 5336, 5299, 5483, 5437, 5478, 5423, 5692, 5285, 5497, 5510, 5676, 5253, 5565, 5645, 5422, 5644, 5265, 5699, 5566, 5383, 5643, 5694, 5261, 5578, 5382, 5553, 5311, 5584, 5302, 5275, 5367, 5290, 5427, 5448, 5551, 5266, 5619, 5364, 5460, 5709, 5536, 5354, 5386, 5282, 5715, 5480, 5346, 5535, 5509, 5568, 5634, 5522, 5462, 5439, 5445, 5453, 5629, 5412, 5404, 5268, 5529, 5608, 5667, 5330, 5319, 5631, 5365, 5528, 5284, 5696, 5430, 5683, 5256, 5623, 5648, 5450 (13 hits) (01/04/2012 04:33:44 PM)
37	9	1.0	333.0	Yes	5282.0MHz, -64.0dBm	Hop sequence: 5522, 5399, 5707, 5674, 5464, 5507, 5298, 5503, 5570, 5434, 5514, 5277, 5494, 5638, 5506, 5419, 5303, 5543, 5561, 5518, 5251, 5675, 5339, 5607, 5333, 5440, 5563, 5387, 5273, 5605, 5583, 5262, 5532, 5474, 5305, 5255, 5364, 5410, 5636, 5400, 5348, 5452, 5337, 5630, 5662, 5289, 5568, 5291, 5704, 5463, 5631, 5574, 5718, 5635, 5275, 5545, 5392, 5658, 5591, 5271, 5687, 5537, 5299, 5300, 5536, 5331, 5456, 5686, 5539, 5378, 5396, 5491, 5445, 5405, 5533, 5340, 5584, 5329, 5265, 5601, 5363, 5685, 5618, 5433, 5540, 5408, 5336, 5659, 5496, 5284, 5398, 5415, 5370, 5538, 5512, 5610, 5549, 5281, 5325, 5334 (12 hits) (01/04/2012 04:33:52 PM)
38	9	1.0	333.0	Yes	5283.0MHz, -64.0dBm	Hop sequence: 5500, 5414, 5677, 5680, 5313, 5626, 5599, 5293, 5713, 5261, 5487, 5357, 5512, 5608, 5558, 5462, 5265, 5497, 5338, 5685, 5668, 5643, 5623, 5461, 5656, 5344, 5678, 5620, 5554, 5399, 5373, 5553, 5514, 5440, 5323, 5259, 5319, 5472, 5368, 5321, 5388, 5420, 5670, 5363, 5704, 5251, 5426, 5459,

Table 44 - FCC frequency hopping radar (Type 6) Results HT40						
Trial #	Pulses/ Burst	Pulse Width (us)	PRI (us)	Detected	Fr (MHz) and level (dBm)	Burst Information
						5417, 5644, 5535, 5510, 5691, 5385, 5695, 5582, 5327, 5256, 5477, 5307, 5405, 5262, 5617, 5349, 5444, 5669, 5612, 5566, 5502, 5474, 5649, 5387, 5556, 5289, 5574, 5604, 5480, 5634, 5699, 5576, 5515, 5464, 5395, 5352, 5318, 5681, 5295, 5483, 5625, 5294, 5274, 5618, 5614, 5526, 5585, 5336, 5300, 5482, 5332, 5641 (6 hits) (01/04/2012 04:34:00 PM)
39	9	1.0	333.0	Yes	5284.0MHz, -64.0dBm	Hop sequence: 5252, 5554, 5296, 5460, 5717, 5312, 5385, 5395, 5497, 5293, 5339, 5392, 5529, 5376, 5346, 5308, 5322, 5705, 5470, 5412, 5600, 5397, 5375, 5667, 5459, 5475, 5445, 5253, 5348, 5277, 5628, 5665, 5559, 5533, 5704, 5721, 5509, 5437, 5586, 5378, 5350, 5263, 5617, 5666, 5655, 5467, 5409, 5582, 5653, 5517, 5458, 5698, 5313, 5676, 5542, 5658, 5515, 5338, 5331, 5648, 5329, 5647, 5504, 5538, 5367, 5709, 5269, 5492, 5426, 5265, 5535, 5512, 5585, 5345, 5290, 5574, 5487, 5400, 5682, 5319, 5696, 5649, 5359, 5657, 5524, 5527, 5454, 5260, 5608, 5421, 5418, 5298, 5595, 5719, 5578, 5699, 5379, 5456, 5393, 5634 (6 hits) (01/04/2012 04:34:10 PM)

Appendix D Test Data Tables and Plots for Channel Closing

FCC PART 15 SUBPART E Channel Closing Measurements

Table 45 FCC Part 15 Subpart E Channel Closing Test Results (Master)					
Waveform Type	Channel Closing Transmission Time [1]		Channel Move Time		Result
	Measured	Limit	Measured	Limit	
Radar Type 1, HT5 Mode	4.58ms	60 ms	434ms	10 s	Pass
Radar Type 5, HT5 Mode	0ms	60 ms	-1296ms	10 s	Pass
Radar Type 1, HT40 Mode	1.86ms	60 ms	587ms	10 s	Pass
Radar Type 5, HT40 Mode	0ms	60 ms	-7808ms	10 s	Pass

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.

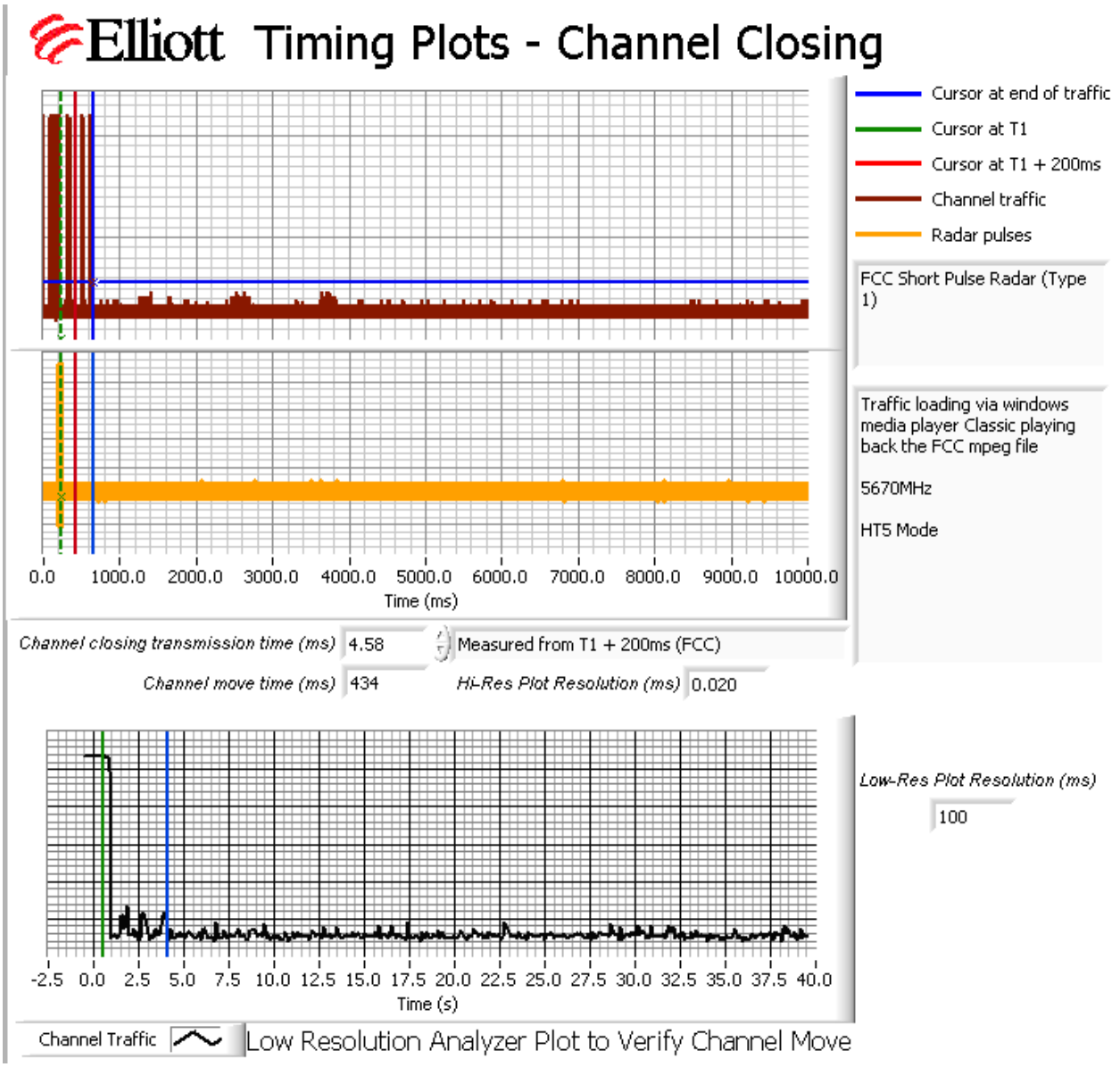


Figure 2 Channel Closing Time and Channel Move Time – 40 second plot, HT5

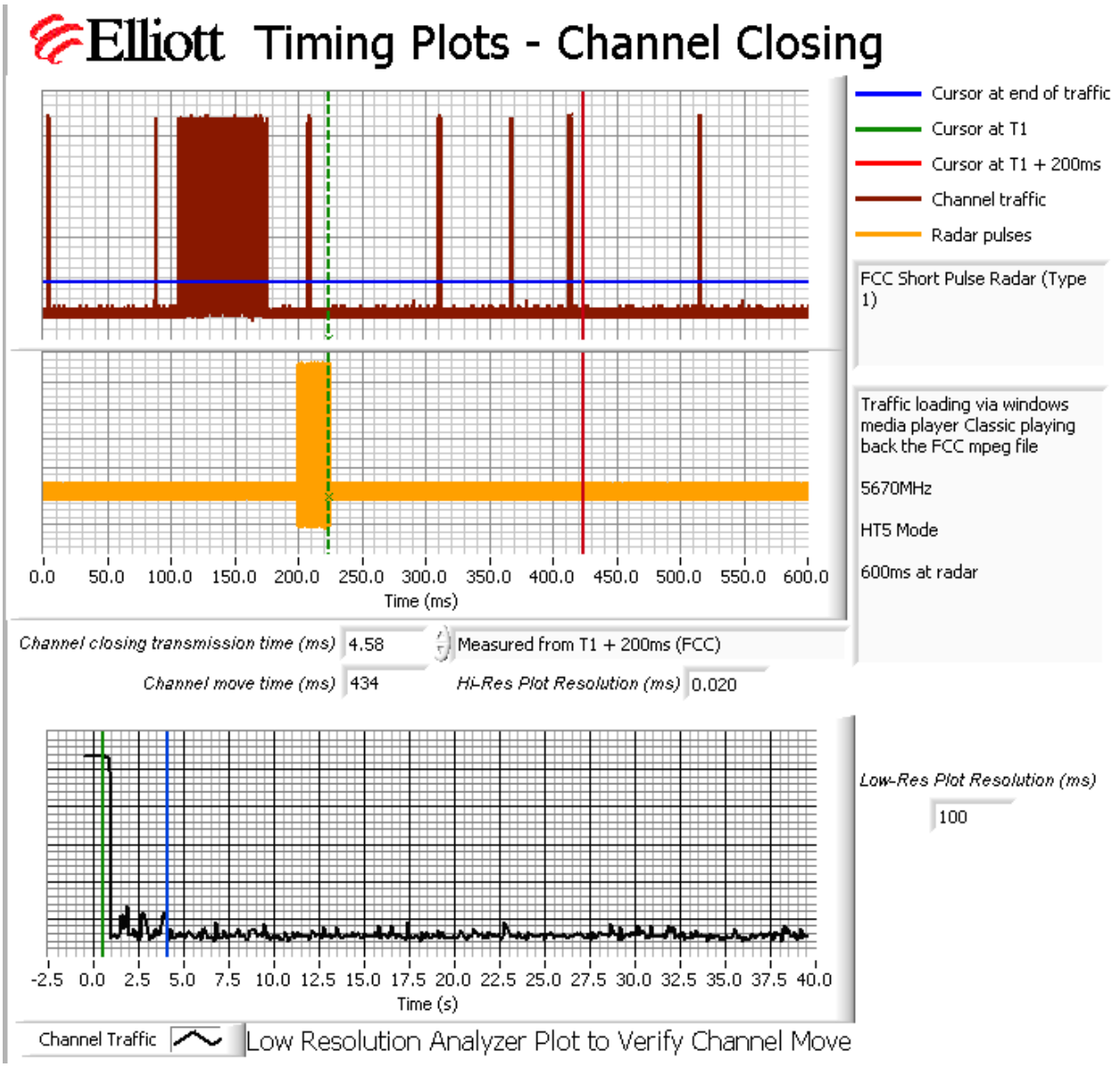


Figure 3 Close-Up of Transmissions Occurring More Than 200ms After The End of Radar, HT5

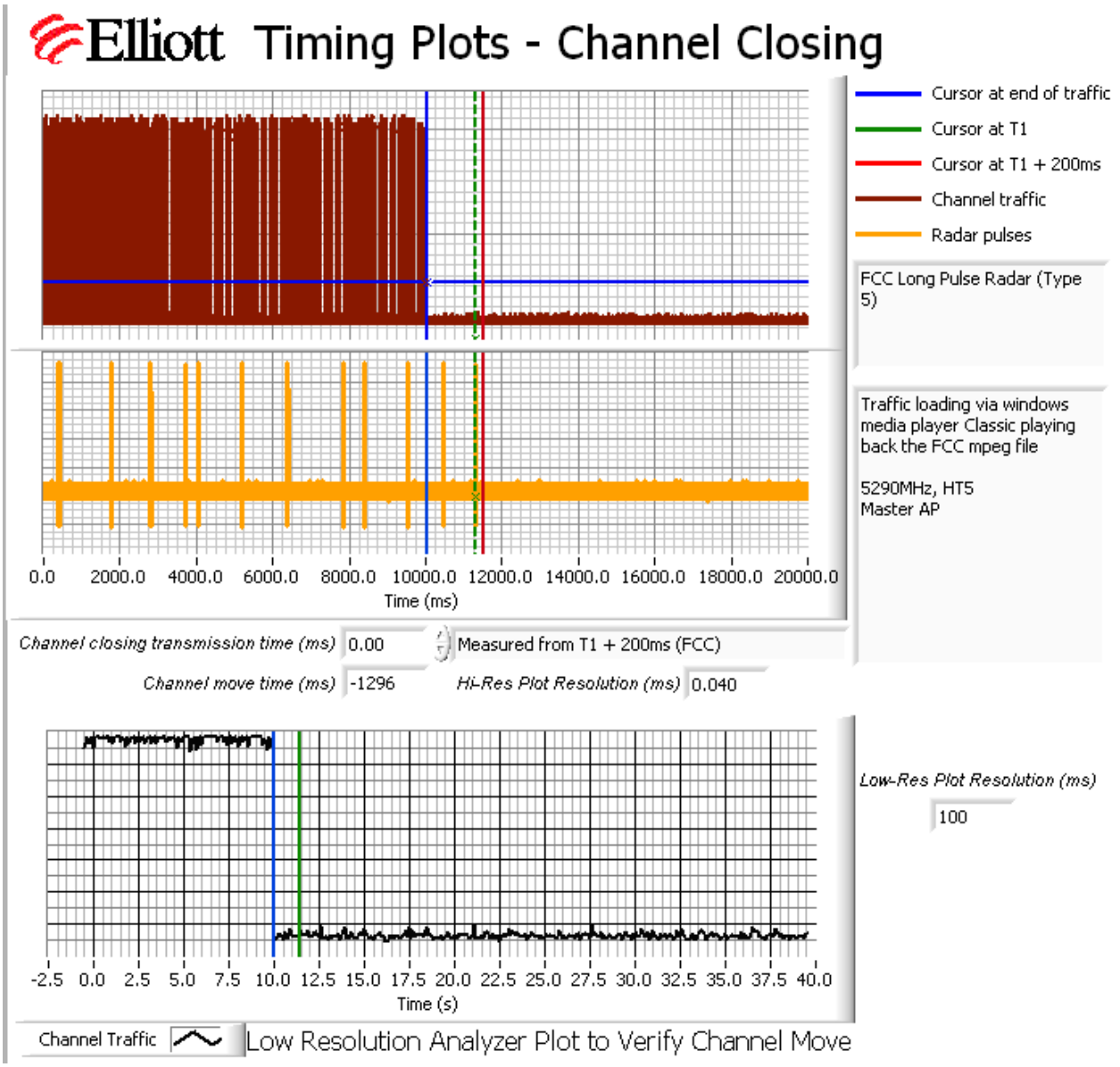


Figure 4 Channel Closing Time and Channel Move Time – 40 second plot, Long Pulse, HT5

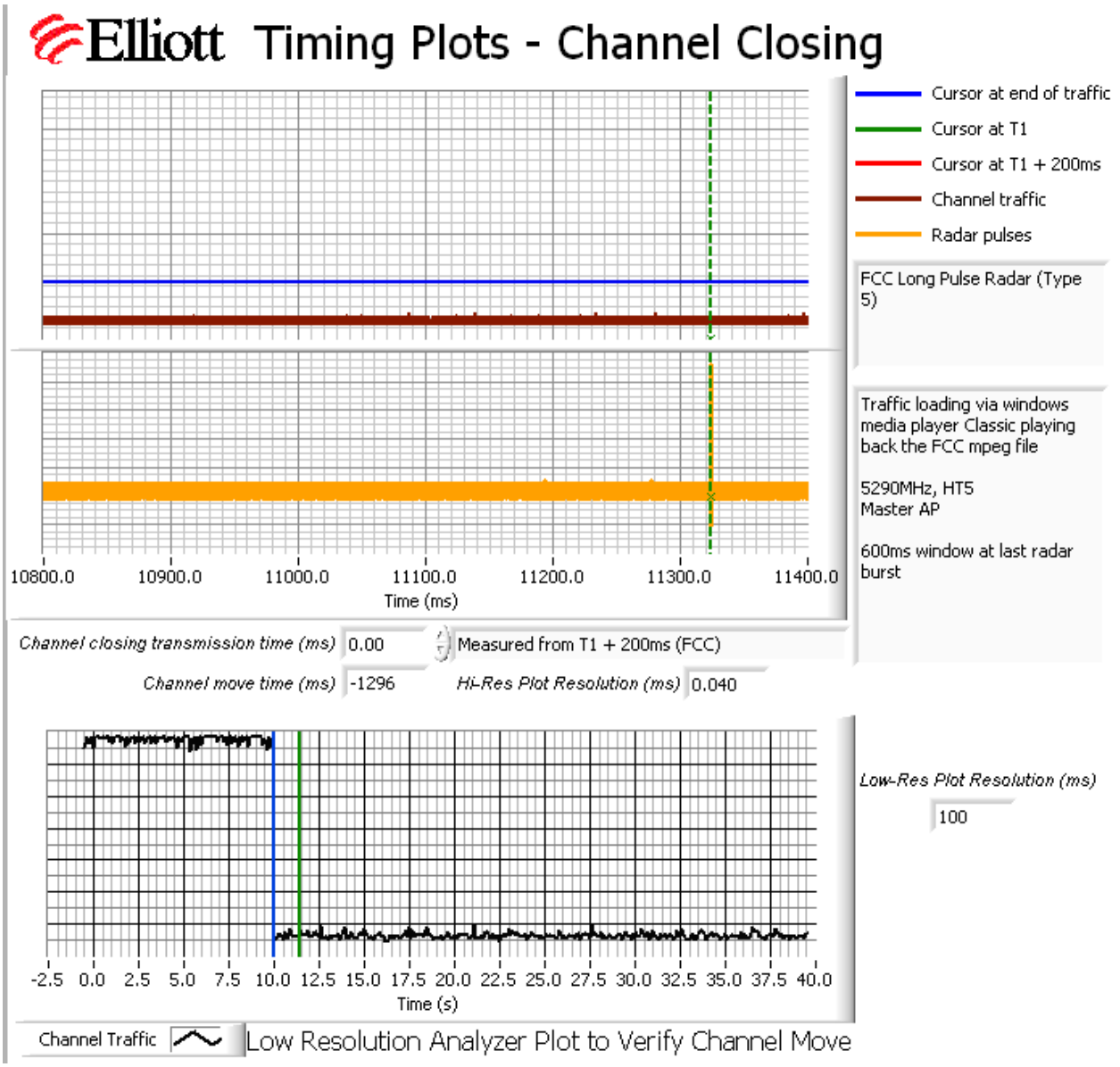


Figure 5 Close-Up of Transmissions Occurring More Than 200ms After The End of Radar, Long Pulse, HT5

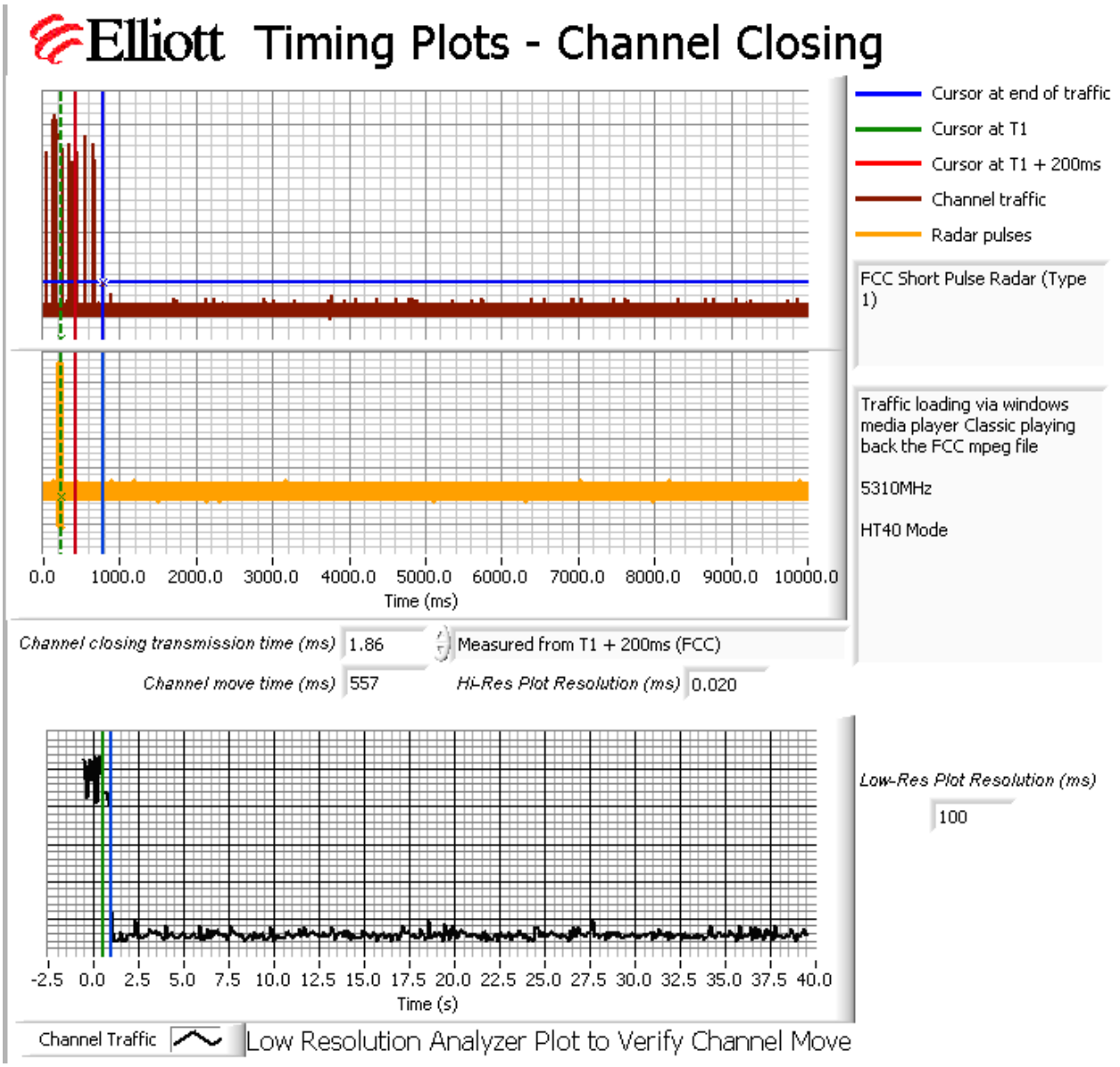


Figure 6 Channel Closing Time and Channel Move Time – 40 second plot, HT40

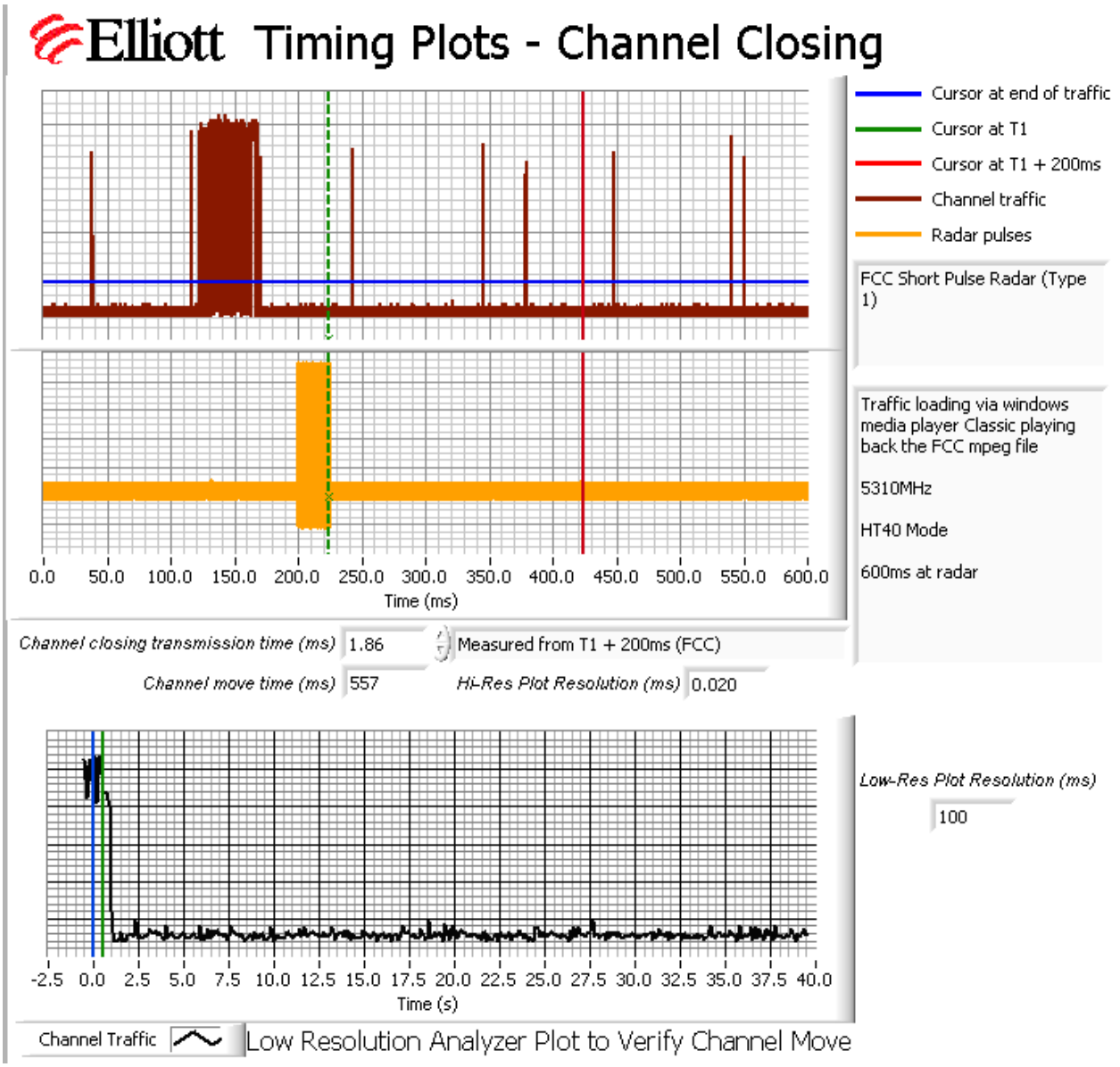


Figure 7 Close-Up of Transmissions Occurring More Than 200ms After The End of Radar, HT40

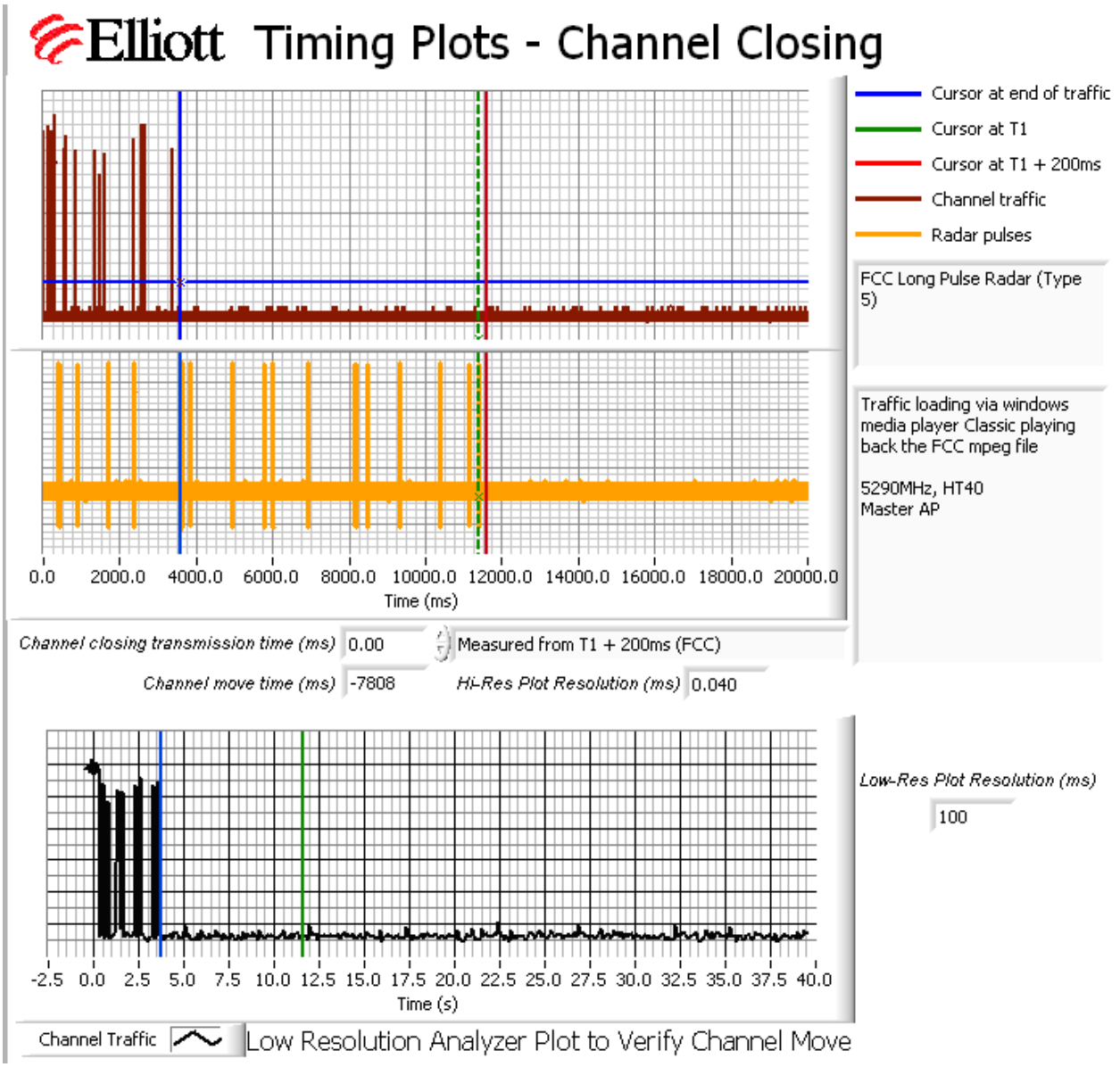


Figure 8 Channel Closing Time and Channel Move Time – 40 second plot, Long Pulse, HT40

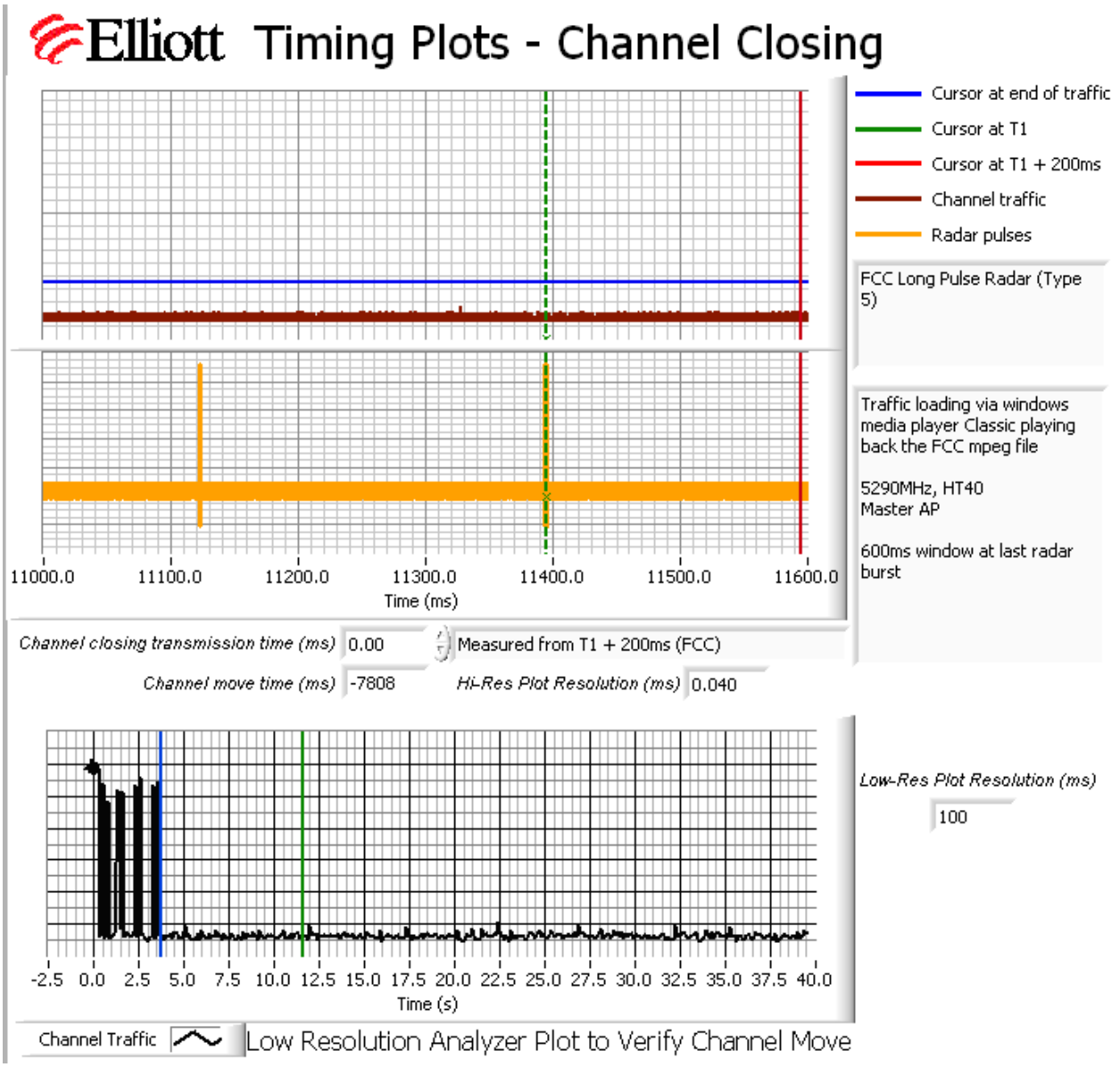
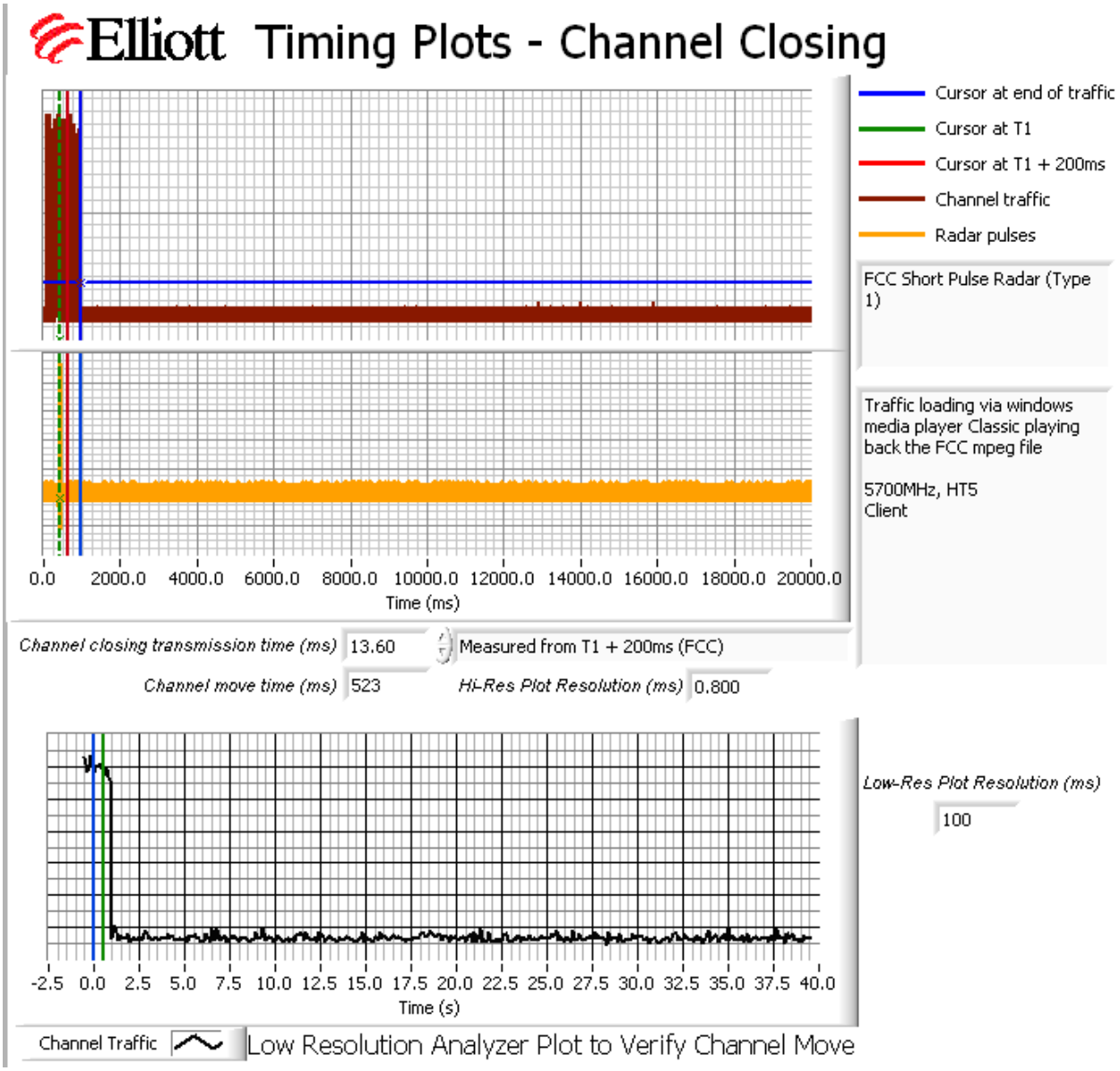


Figure 9 Close-Up of Transmissions Occurring More Than 200ms After The End of Radar, Long Pulse, HT40

FCC PART 15 SUBPART E Channel Closing Measurements

Table 46 FCC Part 15 Subpart E Channel Closing Test Results (Client)					
Waveform Type	Channel Closing Transmission Time [1]		Channel Move Time		Result
	Measured	Limit	Measured	Limit	
Radar Type 1, HT5 mode	13.6ms	60 ms	523ms	10 s	Pass
Radar Type 1, HT20 mode	10.4ms	60 ms	469ms	10 s	Pass
Radar Type 1, HT40 mode	5.6ms	60 ms	486ms	10 s	Pass

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.

Figure 10 Channel Closing Time and Channel Move Time – 40 second plot, HT5

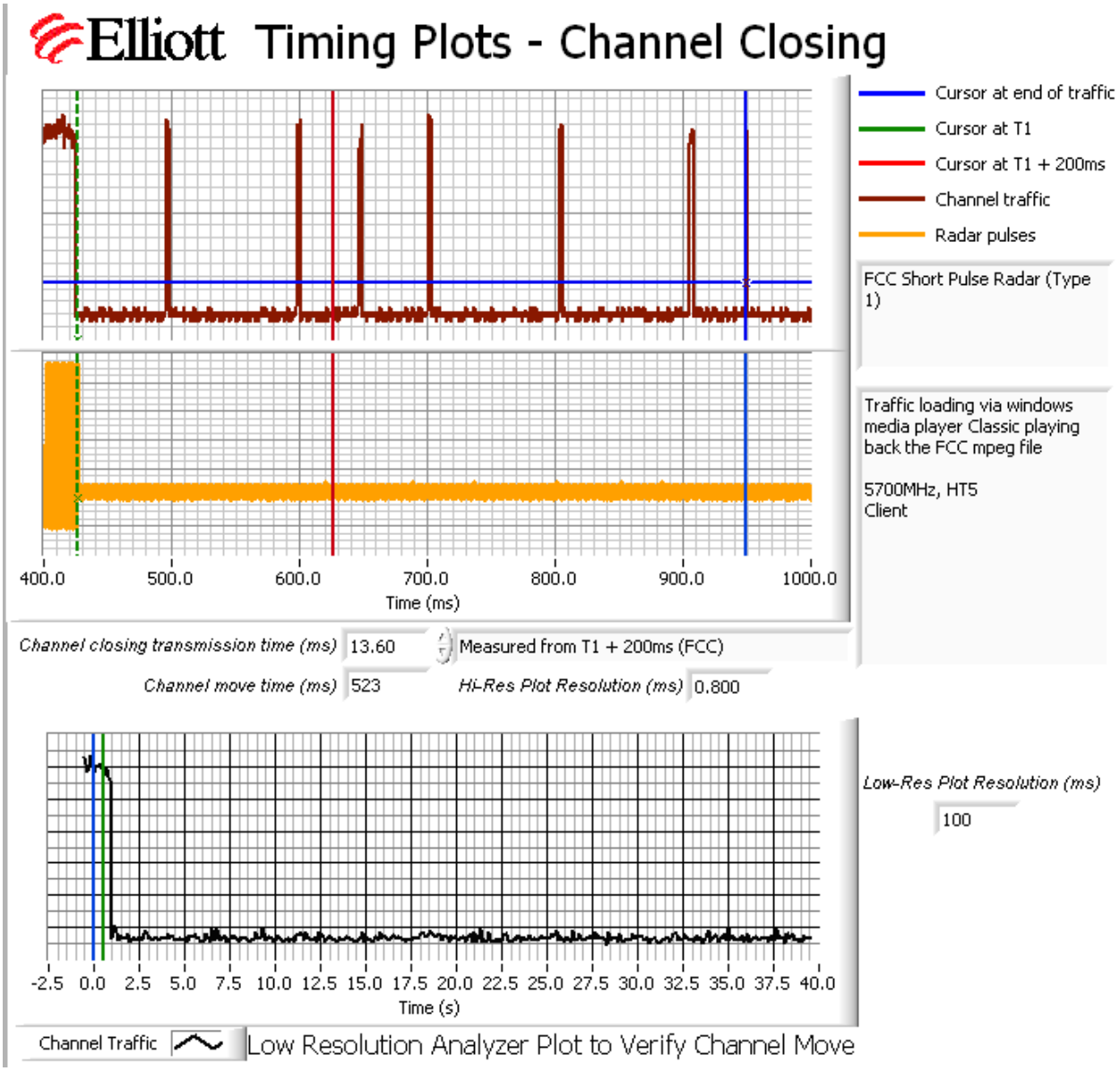


Figure 11 Close-Up of Transmissions Occurring More Than 200ms After The End of Radar, HT5

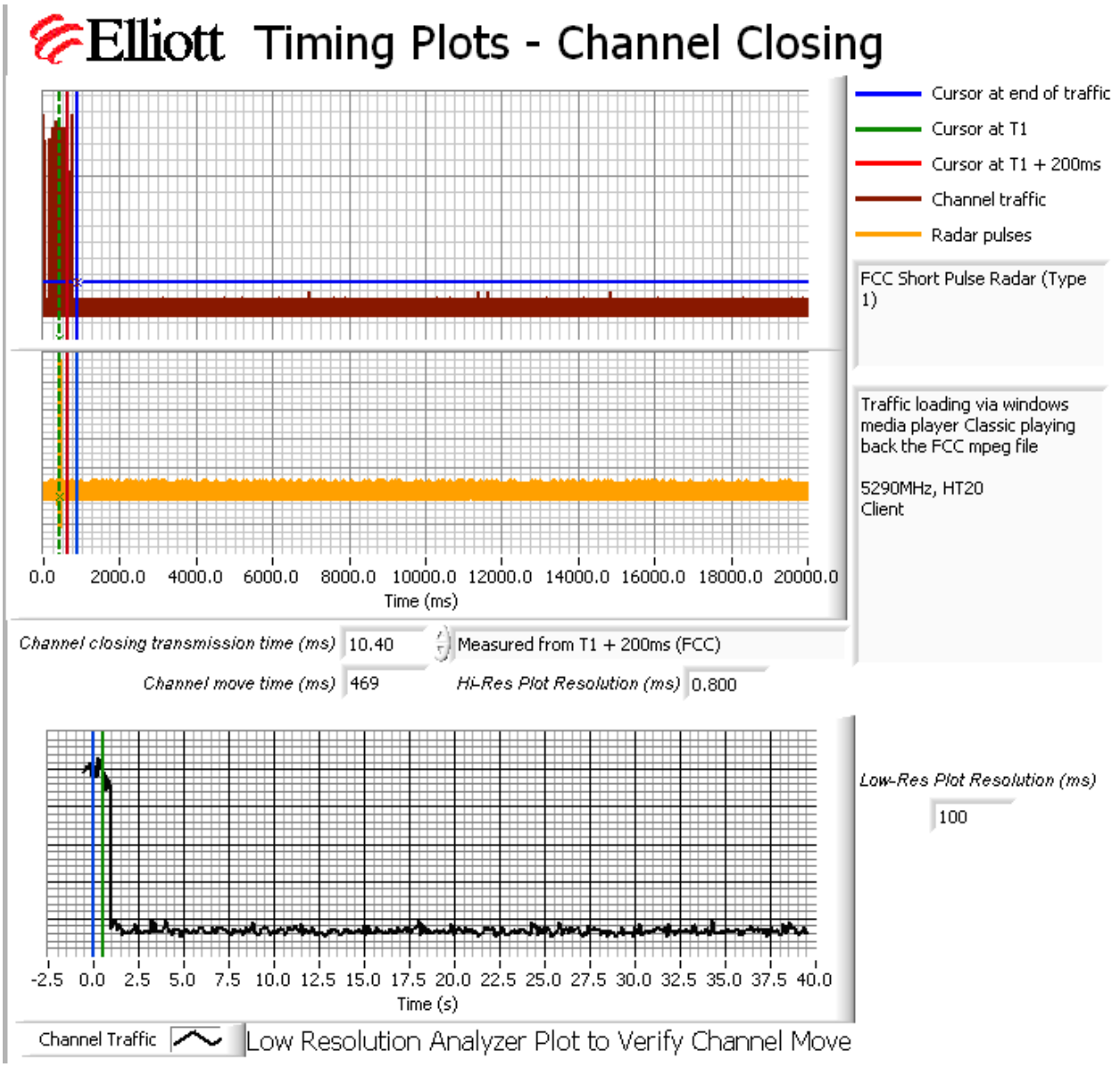


Figure 12 Channel Closing Time and Channel Move Time – 40 second plot, HT20

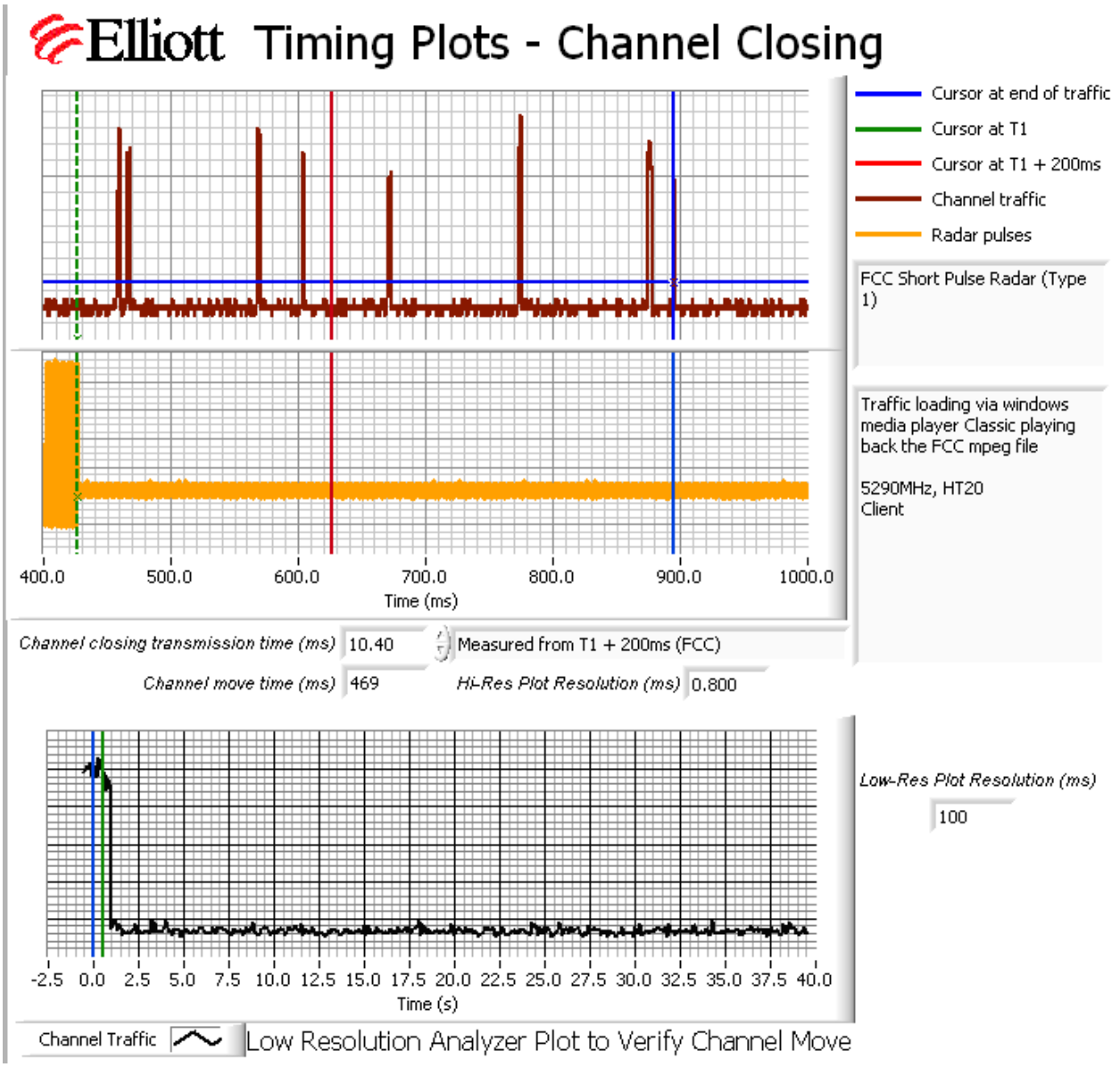


Figure 13 Close-Up of Transmissions Occurring More Than 200ms After The End of Radar, HT20

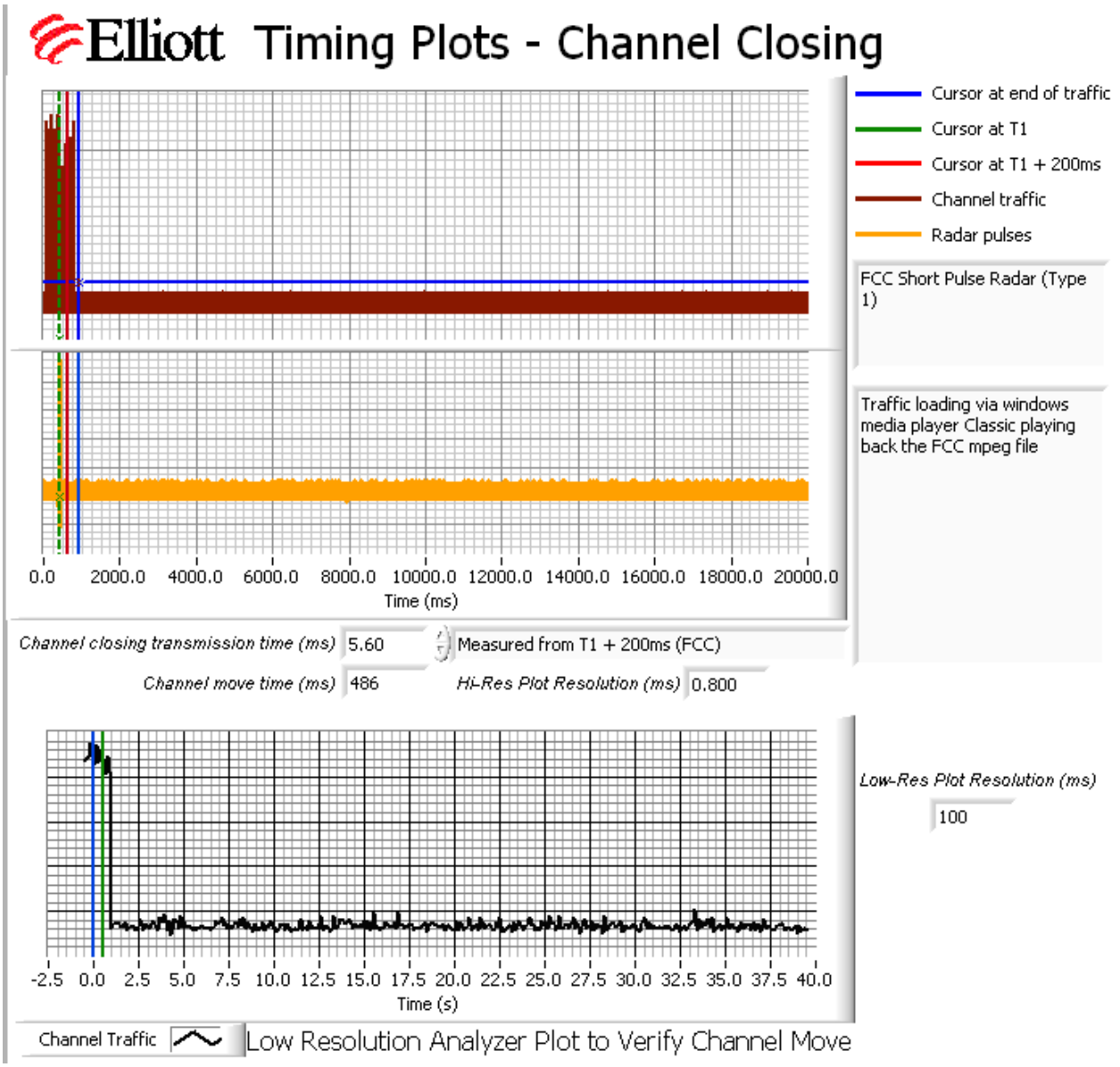


Figure 14 Channel Closing Time and Channel Move Time – 40 second plot, HT40

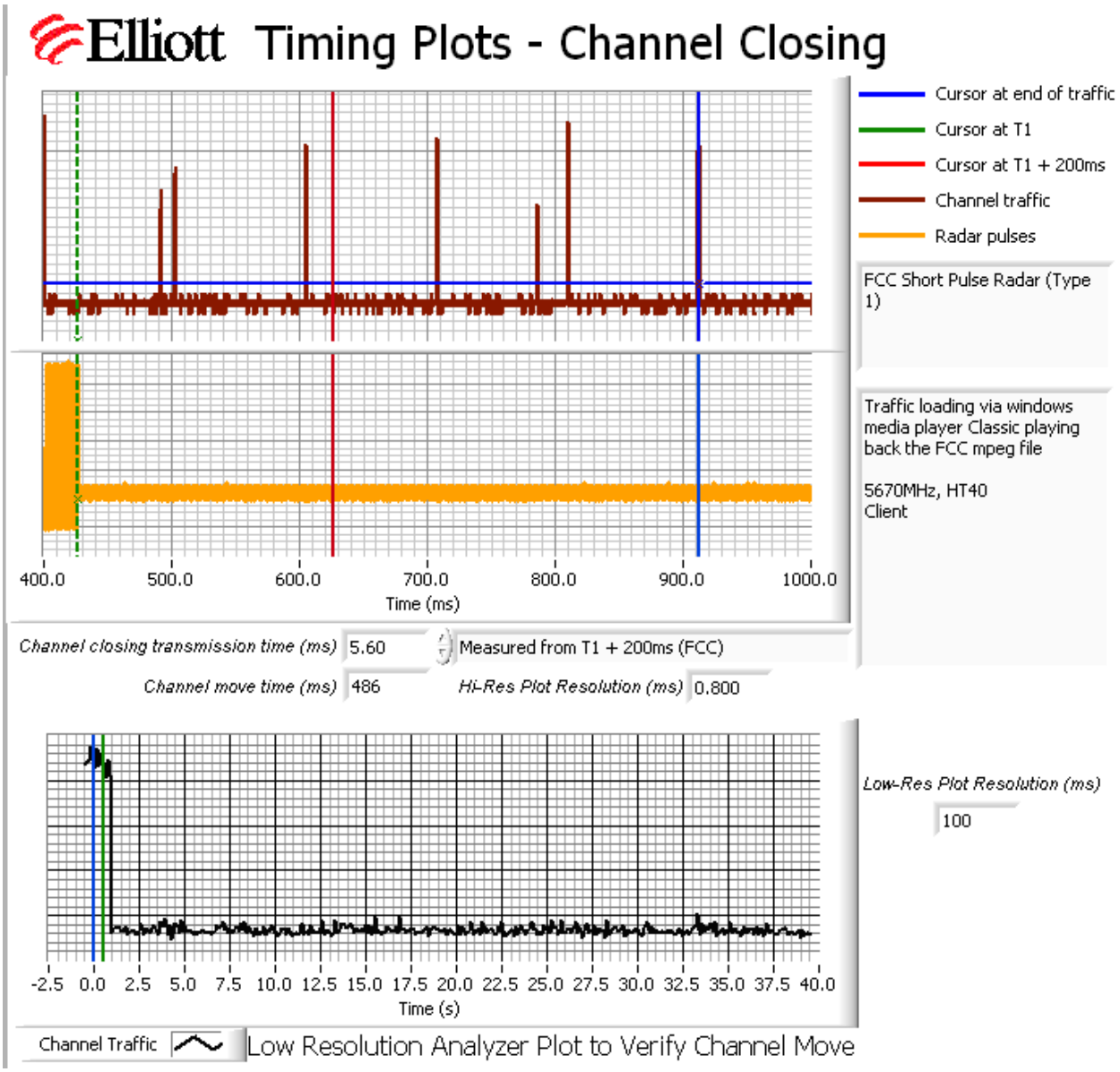


Figure 15 Close-Up of Transmissions Occurring More Than 200ms After The End of Radar, HT40

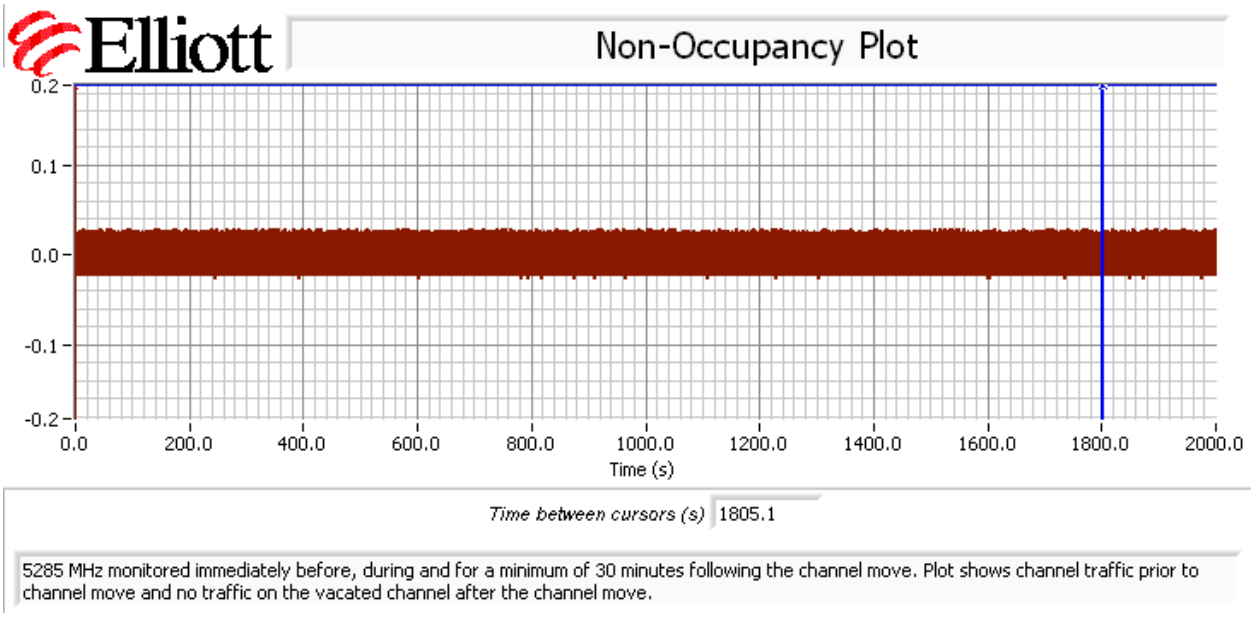


Figure 16 Radar Channel Non-Occupancy Plot (Master)

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

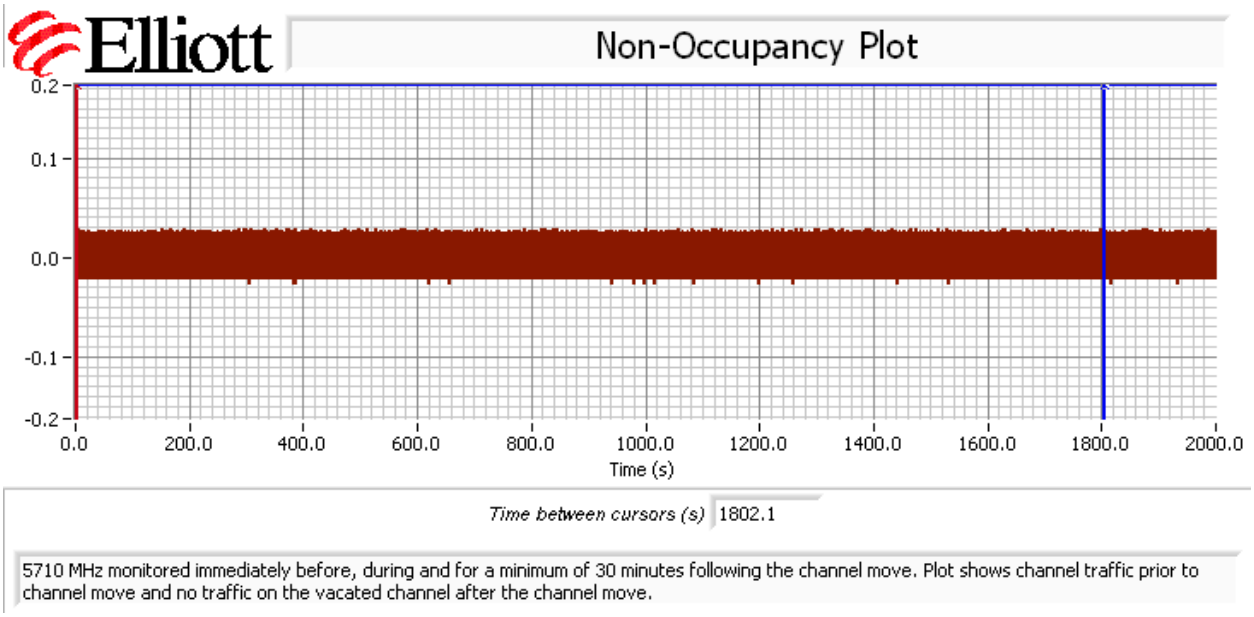


Figure 17 Radar Channel Non-Occupancy Plot (Client)

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

After the channel move the client re-associated with the master device on the new channel. After the channel move the client device stopped transmitting.

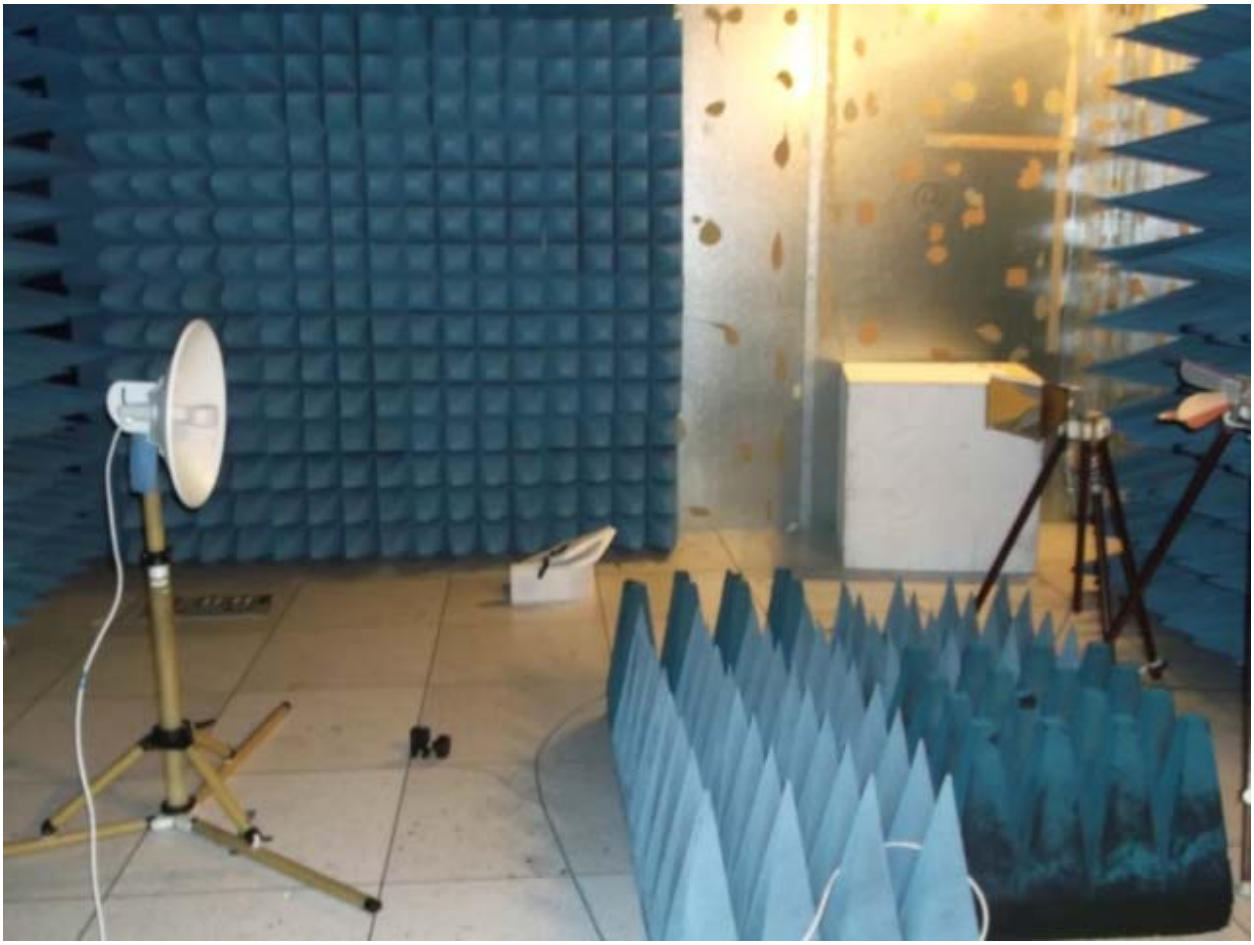
Appendix E Test Data – Channel Availability Check

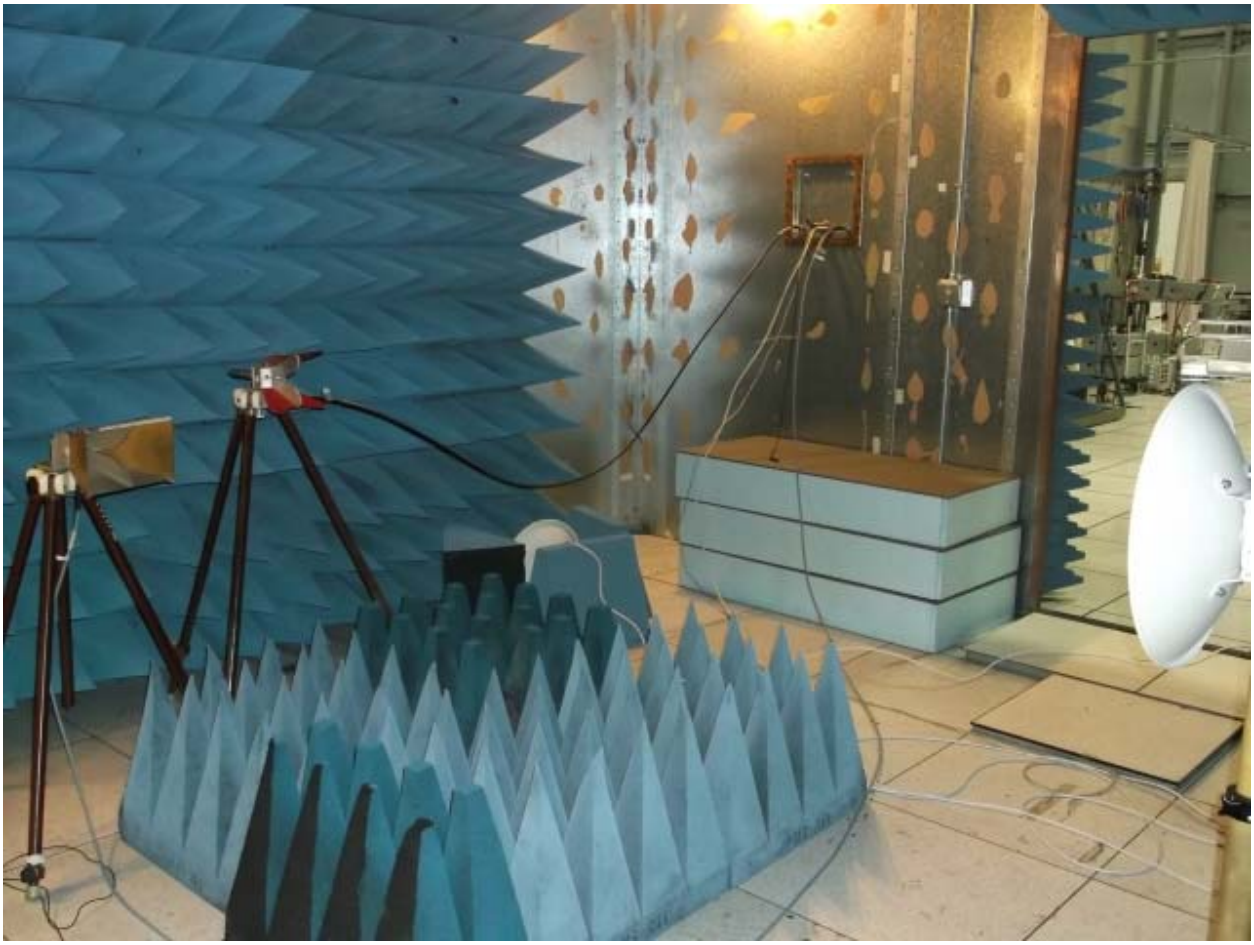
Note: Test not performed/requirement not evaluated per DFS test plan, KDB 1914449

Appendix F Test Data –Antenna Specification

Paste from client spec sheet

Appendix G Test Configuration Photograph(s)





End of Report

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