

DFS Test of MCD2500 802.11a Wireless
Camera

To: FCC 47 CFR Part 15.407 & IC RSS-210

Test Report Serial No.: ULTG06-U2 Rev A



TEST REPORT

FROM



Test of MCD2500 802.11a Wireless Camera

To: FCC 47 CFR Part 15.407 & IC RSS-210
[Limited to Dynamic Frequency Selection (DFS) Test Results]

Test Report Serial No.: ULTG06-U2 Rev A

This report supersedes None

Applicant: Librestream Technologies Inc
110-895 Waverley Street
Winnipeg, MB R3T5P4
Canada

Product Function: 802.11a Mobile Collaboration Device

Copy No: pdf Issue Date: 25th May 2010

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.
440 Boulder Court, Suite 200
Pleasanton, CA 94566 USA
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CERTIFICATE #2381.01

MiCOM Labs is an ISO 17025 Accredited Testing Laboratory



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ACCREDITATION, LISTINGS & RECOGNITION

MiCOM Labs, Inc. an accredited laboratory complies with the international standard BS EN ISO/IEC 17025. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-01.pdf>



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

MICOM LABS

Pleasanton, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Presented this 14th day of April 2010.



Peter Maye

President & CEO
For the Accreditation Council
Certificate Number 2381.01
Valid to November 30, 2011

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

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LISTINGS

MiCOM Labs test facilities are listed by the following organizations;

North America

United States of America

Federal Communications Commission (FCC) Listing #: 102167

Canada

Industry Canada (IC) Listing #:4143A

Japan Registration

VCCI Membership Number: 2959

- Radiation 3 meter site; Registration No. R-2881
- Line Conducted, Registration Nos. C-3181 & T-1470
- Emissions; Registration Nos. C-3180 & T-1469

RECOGNITION

APEC MRA (Asia-Pacific Economic Community Mutual Recognition Agreement)

Conformity Assessment Body (CAB) – MiCOM Labs

Test data generated by MiCOM Labs is accepted in the following countries under the APEC MRA.

Country	Recognition Body	Phase	CAB Identification No.
Australia	Australian Communications and Media Authority (ACMA)	I	US0159
Hong Kong	Office of the Telecommunication Authority (OFTA)	I	
Korea	Ministry of Information and Communication Radio Research Laboratory (RRL)	I	
Singapore	Infocomm Development Authority (IDA)	I	
Taiwan	National Communications Commission (NCC) Bureau of Standards, Metrology and Inspection (BSMI)	I	
Vietnam	Ministry of Information and Communications	I	

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DOCUMENT HISTORY

Document History		
Revision	Date	Comments
Draft		
A	25 th May 2010	Initial release.

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1. TEST RESULT CERTIFICATE

Applicant:	Librestream Technologies Inc 110-895 Waverley Street Winnipeg, MB R3T5P4 Canada	Tested By:	MiCOM Labs, Inc. 440 Boulder Court Suite 200 Pleasanton California, 94566, USA
EUT:	802.11a/b/g Client Device	Telephone:	+1 925 462 0304
Model:	MCD2500	Fax:	+1 925 462 0306
S/N:	N/A		
Test Date(s):	29th to 30th March 2010	Website:	www.micomlabs.com

STANDARD(S)	TEST RESULTS
FCC 47 CFR Part 15.407 & IC RSS-210 Annex 9 [Limited to Dynamic Frequency Selection (DFS) test results for client device only]	EQUIPMENT COMPLIES

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

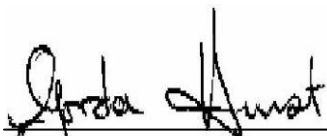
Notes:

1. This document reports conditions under which testing was conducted and the results of testing performed.
2. Details of test methods used have been recorded and kept on file by the laboratory.
3. Test results apply only to the item(s) tested.

Approved & Released for MiCOM Labs, Inc. by:



Graeme Grieve
Quality Manager MiCOM Labs,



Gordon Hurst
President & CEO MiCOM Labs, Inc.



CERTIFICATE #2381.01

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2. REFERENCES AND MEASUREMENT UNCERTAINTY

2.1. Normative References

Ref.	Publication	Year	Title
(i)	FCC 47 CFR Part 15.407	2009	Code of Federal Regulations
(ii)	FCC 06-96	June 2006	Memorandum Opinion and Order
(iii)	Industry Canada RSS-210	Issue 7 June 2007	Low Power License-Exempt Radio communication Devices (All Frequency Bands): Category 1 Equipment
(iv)	Industry Canada RSS-Gen	Issue 2 June 2007	General Requirements and Information for the Certification of Radio communication Equipment
(v)	ANSI C63.4	2003	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
(vi)	M 3003	Edition 1 Dec. 1997	Expression of Uncertainty and Confidence in Measurements
(vii)	LAB34	Edition 1 Aug 2002	The expression of uncertainty in EMC Testing
(viii)	ETSI TR 100 028	2001	Parts 1 and 2 Electromagnetic compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics
(ix)	A2LA	7 th August 2009	Reference to A2LA Accreditation Status – A2LA Advertising Policy

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2.2. Test and Uncertainty Procedures

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.

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3. PRODUCT DETAILS AND TEST CONFIGURATIONS

3.1. Technical Details

Details	Description
Purpose:	Test of the MCD2500 802.11a Wireless Camera per the DFS requirements for a Client device to FCC Part 15.407 and Industry Canada RSS-210 Annex 9 regulations in the frequency ranges 5250 to 5350 MHz, and 5470 to 5,725 MHz
Applicant:	Librestream Technologies Inc 110-895 Waverley Street Winnipeg, MB R3T5P4 Canada
Manufacturer:	As Applicant
Laboratory performing the tests:	MiCOM Labs, Inc. 440 Boulder Court, Suite 200 Pleasanton, California 94566 USA
Test report reference number:	ULTG06-U2 Rev A
Date EUT received:	26 th March 2010
Standard(s) applied:	FCC 47 CFR Part 15.407 & IC RSS-210
Dates of test (from - to):	29th to 30th March 2010
No of Units Tested:	One
Type of Equipment:	802.11a Wireless Client device
Applicants Trade Name:	Onsight
Model(s):	MCD2500
Radio Firmware Release	2.1.10
Declared Frequency Range(s):	5,250 to 5,350 MHz 5,470 to 5,725 MHz
Type of Modulation:	Per 802.11a – OFDM
Declared Nominal Output Power: (Average Power)	802.11a: +12 dBm
EUT Modes of Operation:	Limited to 802.11a
DFS Operational Mode:	Client device without radar detection capability
Transmit/Receive Operation:	Time Division Duplex
Rated Input Voltage and Current:	12Vdc @ 1.5A (External DC supply)
Battery	7.2V @ 2A
Operating Temperature Range:	Declared range -10 to +40°C
Frequency Stability:	±15 ppm max
Equipment Dimensions:	7.36" x 5" X 4.25"
Weight:	2.3 lbs (1040 grams)
Primary function of equipment:	Mobile Collaboration Device

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3.2. Scope of Test Program

The scope of the test program was to test the Librestream Technologies Inc MCD2500 802.11a Mobile Collaboration Device in the frequency ranges 5,250 – 5,350 or 5,470 to 5,725 MHz as a Client device for compliance against the Dynamic Frequency Selection (DFS) requirements of FCC 47 CFR Part 15.407 and the FCC specification Memorandum Opinion and Order FCC 06-96.

One frequency was chosen (5,500 MHz) from the operating channels of the UUT within the 5,250 – 5,350 MHz and 5,470 – 5,725 MHz bands for DFS testing per the requirements of FCC specification “Memorandum Opinion and Order FCC 06-96”, Section 7.8 “DFS Conformance Test Procedures”.

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**Librestream Technologies Inc
MCD2500 Mobile Collaboration Device
(Front)**



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**Librestream Technologies Inc
MCD2500 Mobile Collaboration Device
(Rear)**



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3.3. Equipment Model(s) and Serial Number(s)

Type (EUT/Support)	Equipment Description (Including Brand Name)	Mfr	Model No.	Serial No.
EUT	Mobile Collaboration Device	Librestream Technologies Inc	MCD2500	N/A
Support	Wireless Access Point	Motorola	AP-7131	8248520900833
Support	Laptop PC	Compaq	Presario	None

3.4. Antenna Details

1. Integral 2dBi; no antennas were tested as part of this compliance program

3.5. Test Configurations

Operational Mode(s) (802.11)	DFS Test Frequency (MHz)
a	5,500

3.6. Equipment Modifications

The following modifications were required to bring the equipment into compliance:

1. NONE

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3.7. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program:

1. NONE

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4. TEST SUMMARY

List of Measurements

Dynamic Frequency Selection (DFS)

The following table represents the list of measurements required under the **FCC CFR47 Part 15.407(h)(2)** and **FCC Memorandum Opinion and Order FCC 06-96 (Compliance Measurement procedures for Unlicensed National Information Infrastructure devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection)**.

Tests performed on 802.11 a/b/g Client Device

Section	Test Items	Description	Condition	Result	Test Report Section
7.8.3	In-Service Monitoring	In-Service Monitoring for Channel Move Time; Channel Closing Transmission Time; Non-Occupancy Period.	Conducted	Complies	5.2.1

The EUT is a client device without radar detection capability therefore testing was limited to Channel Closing Transmission Time and Channel Move Time

Note 1: Test results reported in this document relate only to the items tested

Note 2: The required tests demonstrated compliance as per client declaration of test configuration, monitoring methodology and associated pass/fail criteria

Note 3:Section 3.7 Equipment Modifications highlights the equipment modifications that were required to bring the product into compliance with the above test matrix



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5. TEST RESULTS

5.1. Dynamic Frequency Selection (DFS)

Test Procedure and Setup for Client without Radar Detection Capability

FCC, Part 15 Subpart C §15.407(h)
FCC 06-96 Memorandum Opinion and Order
Industry Canada RSS-210 A9.4

Measurement Results - Dynamic Frequency Selection (DFS)

Ambient conditions.

Temperature: 17 to 23 °C Relative humidity: 31 to 57% Pressure: 999 to 1012 mbar

Radio parameters.

Test methodology: Conducted

Device Type: Client without radar detection

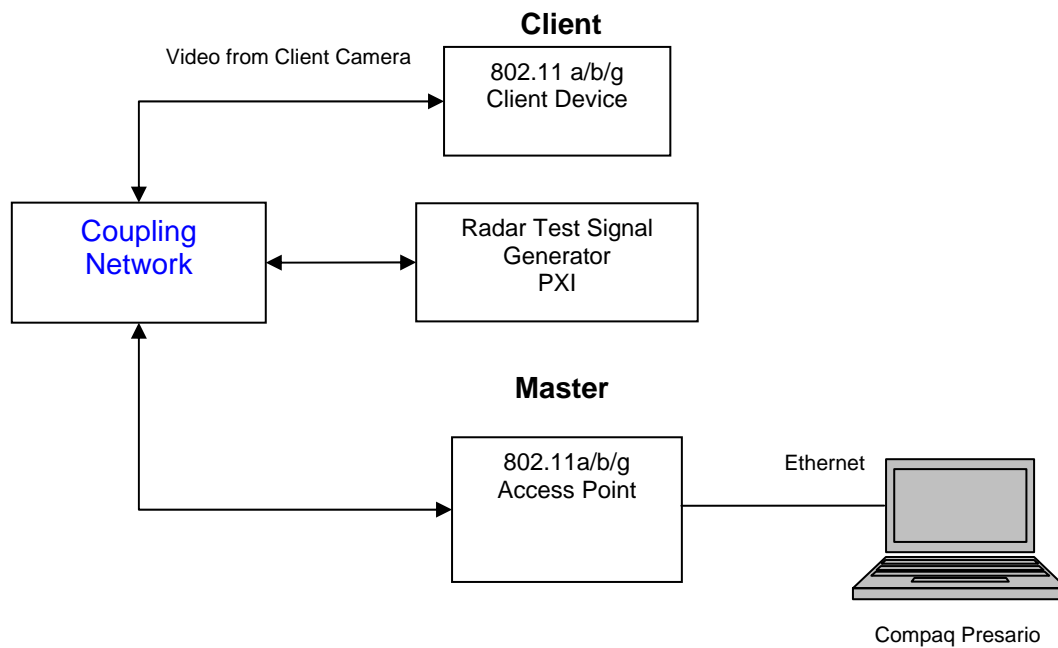
Tests Performed for Client Device without radar detection

Requirement	Operational Mode
	Client
Channel Closing Transmission Time	Yes
Channel Move Time	Yes

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5.1.1. Test Set Up:

Block Diagram(s) of Test Setup



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5.2. Dynamic Frequency Selection (DFS) Test Results

5.2.1. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period FCC §15.407(h)(2)(iii)

The steps below define the procedure to determine the above mentioned parameters when a radar Burst is generated on the Operating Channel of the device.

As the EUT has a camera that is used in normal operation the video data generated was streamed to the Access Point to provide the required link load conditions.

Channel Closing Transmission Time - Measurement

A Type 1 waveform was introduced to the EUT, from which a 12 second transmission record was digitally captured, collecting nearly 250M samples of data, which included in excess of 600 ms of pre-trigger data. This Type 1 waveform had an integral marker built into its construction, marking the start of the radar waveform play, which directly triggered the PXI digitizer's data capture via the PXI backplane trigger bus.

The test system was set-up to capture all transmission data for Access Card events above a threshold level of -50 dBm. The test equipment time stamps all captured events with respect to T_0 (zero time indicating the start of the measurements sequence) starting the 612.1 ms pre-trigger period followed by the radar type 1 burst period.

Radar (Type 1) Pre-trigger period 612.1 ms

Type 1 burst period 25.705 ms

(The period of the 18 pulse burst includes [18 pulses * 1.428mS PRI] = 25.704 ms. Then add 1 μ s pulse width for the final pulse.)

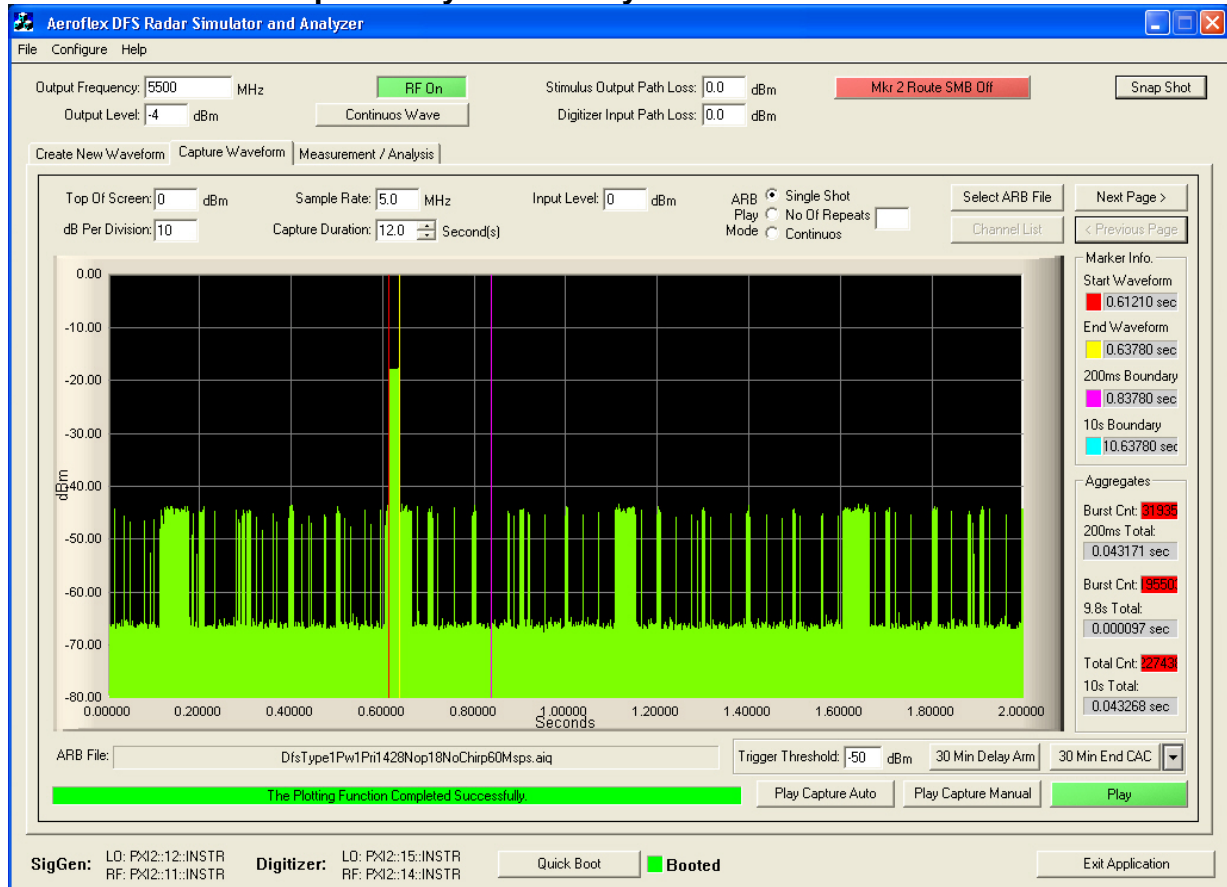
Channel Closing Transmission Time starts immediately after the last radar pulse is transmitted i.e. 637.8 ms after the start of the trace capture period.



Therefore, pulses seen after this 637.8 ms boundary are identified and totaled to provide an aggregate total of transmissions in order to determine whether the EUT is compliant with the Channel Closing Transmission Time requirements as described in MO&O FCC 06-96. In this case, it was found that an aggregate total of 43.268 ms of transmission time accrued. This value is found at the right hand side at the foot of the following plot (10s Total).

Channel Closing Transmission Time = 43.268 mSecs (limit 260 mSecs)

Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 0 to 2 seconds



From the plot above it can be seen that the transmission activity within the 200 mS window is 43.171 mS (see 200 mS Total). The following plots identify all additional activity within the remainder of the 10 sec measurement window.

Last EUT Transmitter Activity = 5.170 Seconds

Last Radar Activity = 0.6378 Seconds

Channel Move Time = Last Transmitter Activity – Last Radar Activity = 5.170 – 0.6378

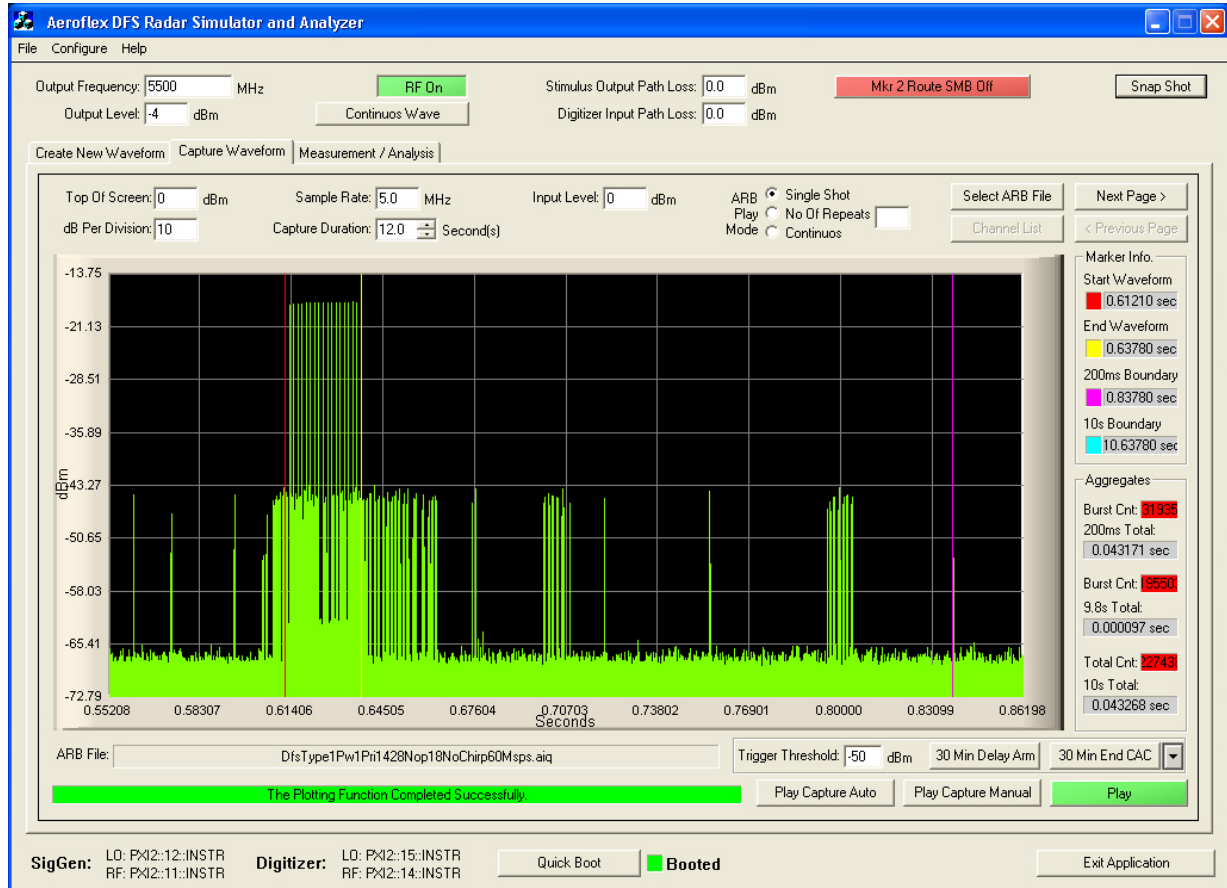
Channel Move Time = 4.532 secs (Limit 10 secs)

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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Close up of EUT, AP and Radar Injection Captured by the Test System – 0.55208 to 0.86198 seconds

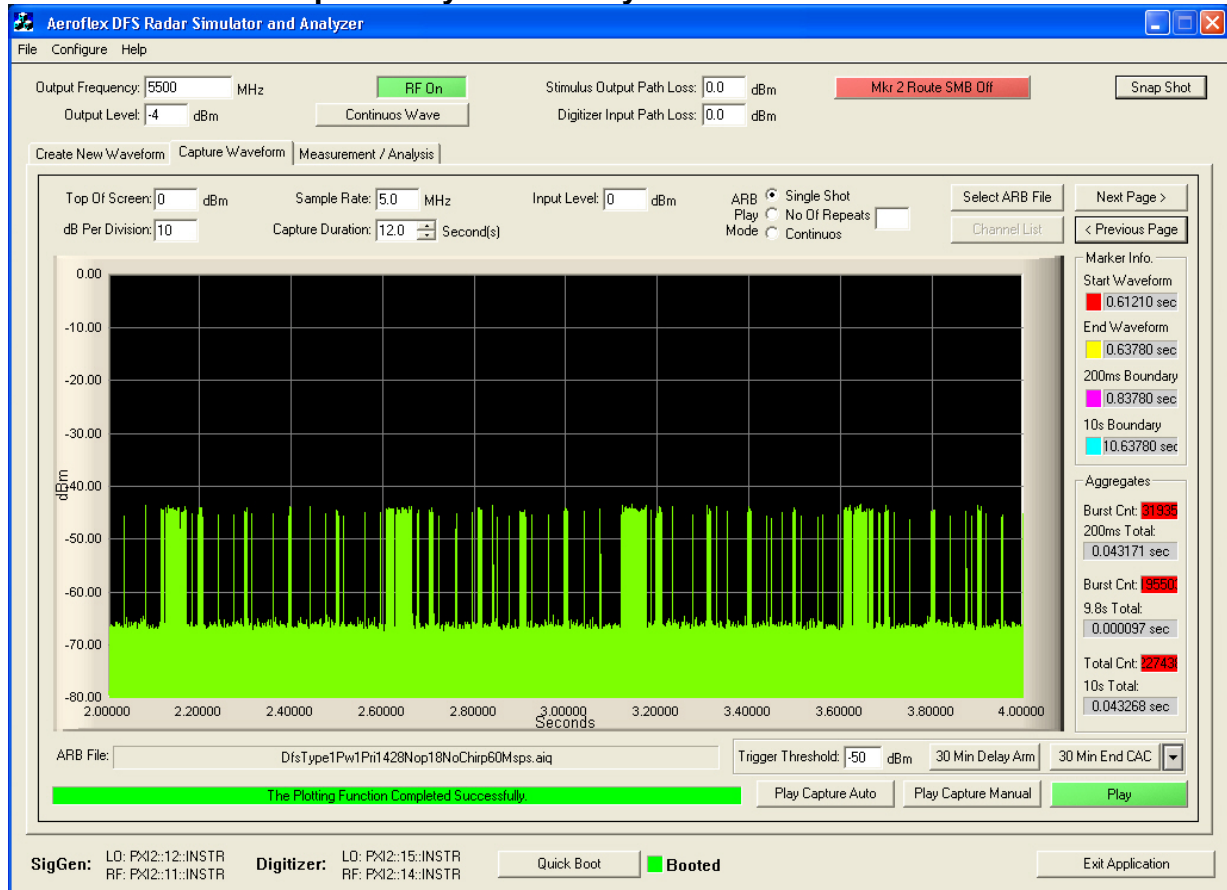


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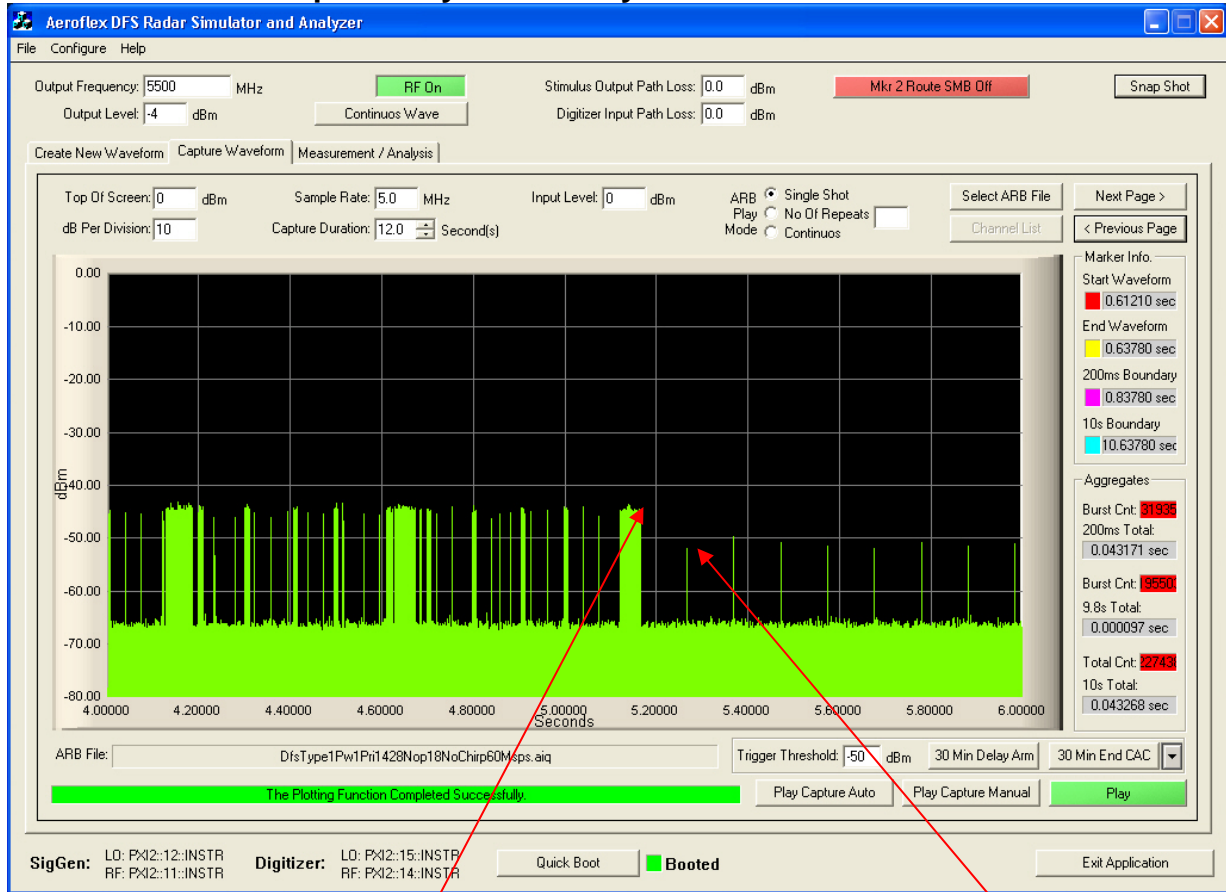
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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 2 to 4 seconds



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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 4 to 6 seconds



Last EUT Activity

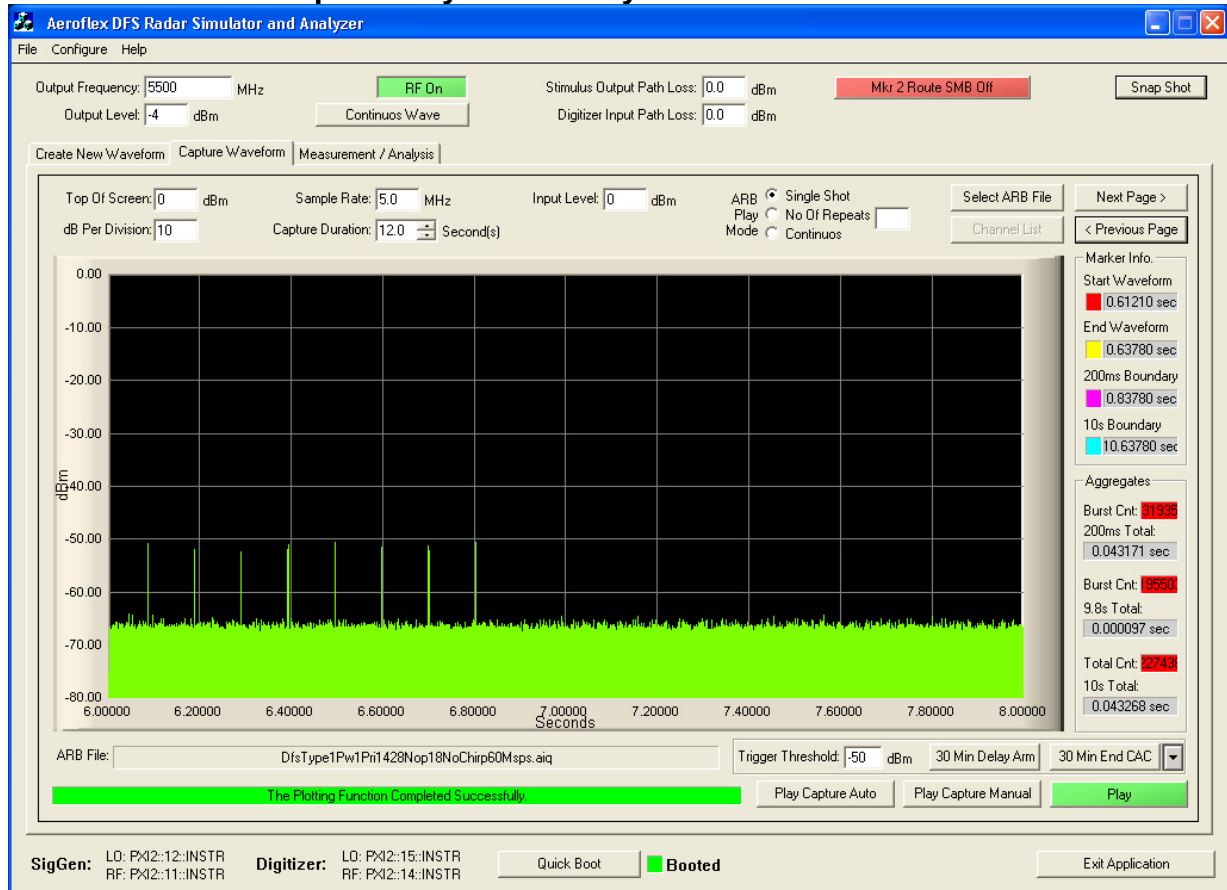
Confirmed Access Point Activity only after this time

In the above plot the EUT stops transmission before the Access Point.



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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 6 to 8 seconds

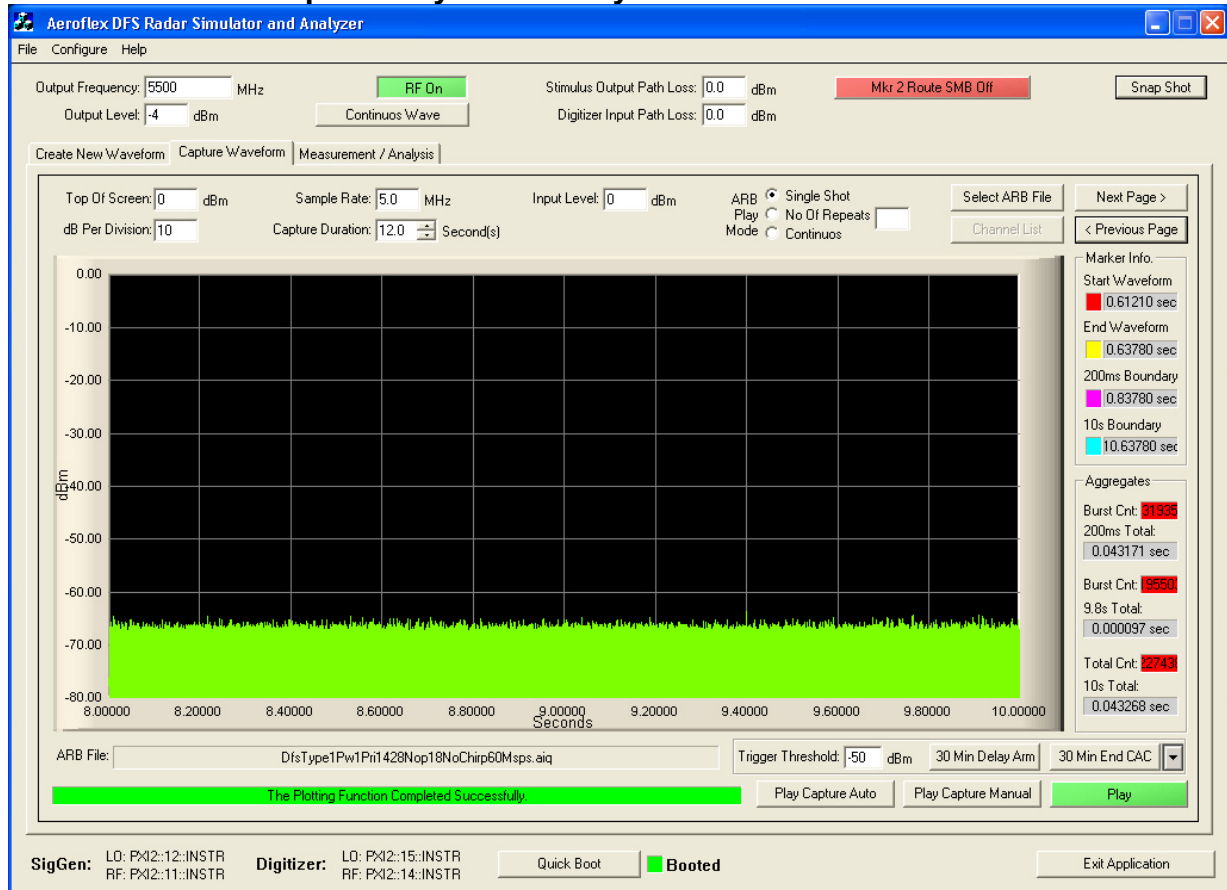


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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 8 to 10 seconds

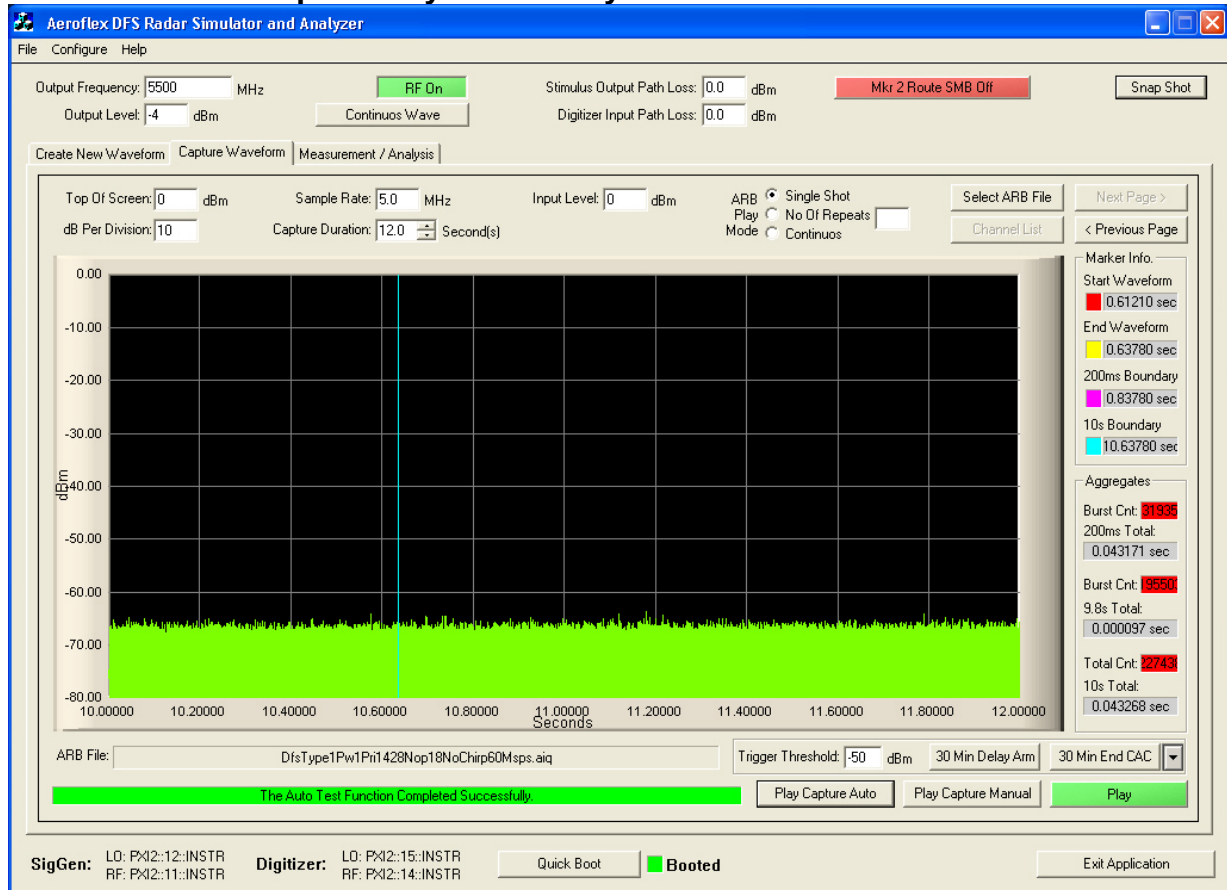


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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 10 to 12 seconds



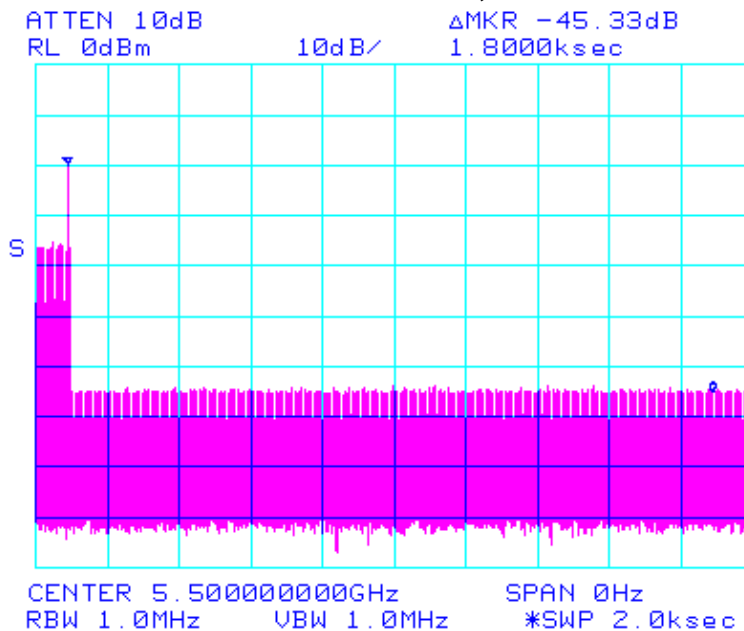
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30 Minute Non-Occupancy Period

The EUT is monitored for more than 30 minutes following the channel close/move time to verify no transmissions, including beacons, resume on this Channel. Radar signature #1 was used to trigger the access point.

30 Minute Non-Occupancy Period Type 1 Radar Ch 5,500 MHz



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Measurement Uncertainty Time/Power

Measurement uncertainty		
- Time		4%
- Power		1.33dB

Traceability

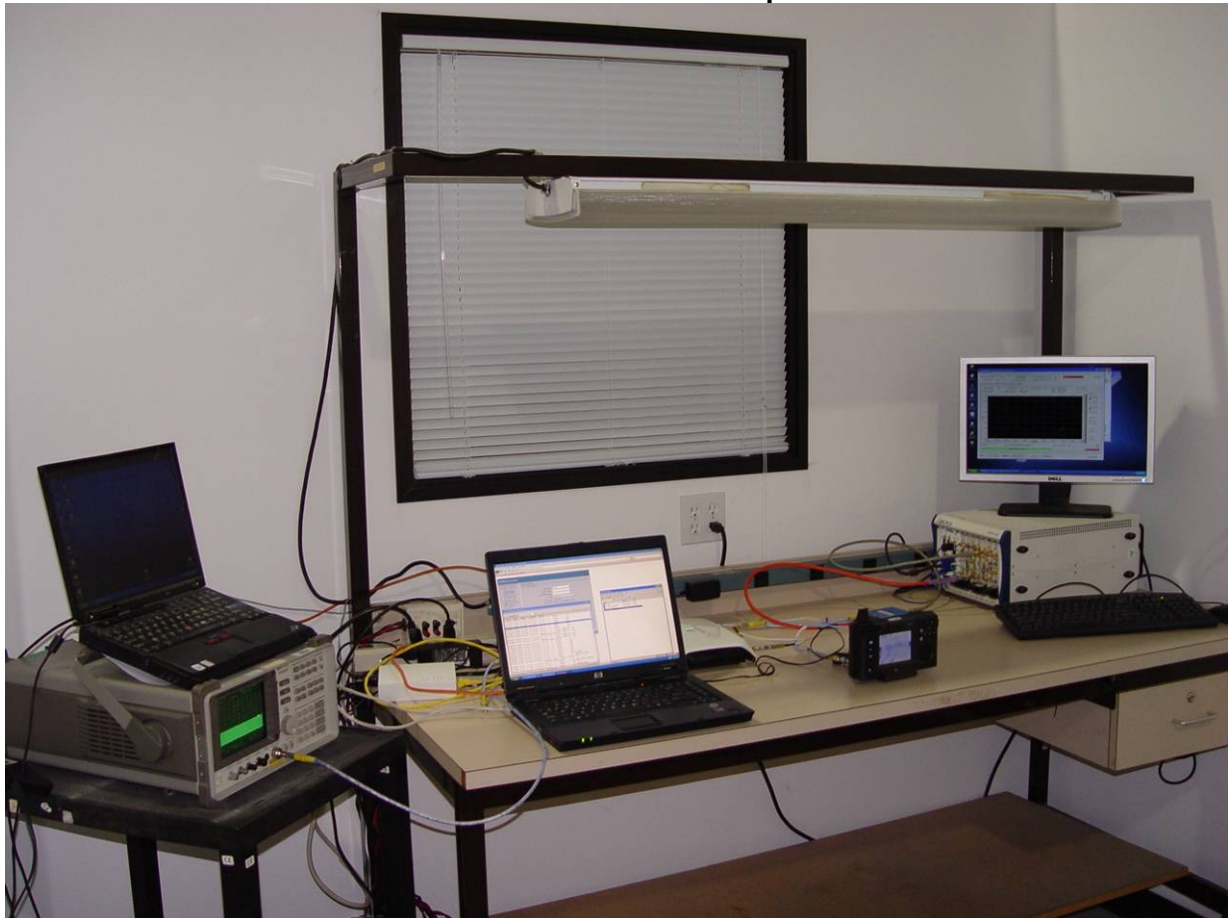
Test Equipment Used
0072, 0083, 0098, 0116, 0132, 0158, 0313, 0314, 0193, 0223, 0252, 0253, 0251, 0256, 0328, 0329

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6. PHOTOGRAPHS

6.1. Dynamic Frequency Selection Test Set-Up

General DFS Test Setup



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DFS Test Equipment



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7. TEST EQUIPMENT DETAILS

Asset #	Instrument	Manufacturer	Model #	Serial #
0072	Signal Generator	Hewlett Packard	HP 83640A	2927A00105
0083	Coupler	Hewlett Packard	HP 87301D	3116A00389
0116	Power Sensor	Hewlett Packard	8485A	3318A19694
0117	Power Sensor	Hewlett Packard	8487D	3318A00371
0158	Barometer /Thermometer	Control Co.	4196	E2844
0193	EMI Receiver	Rhode & Schwartz	ESI 7	838496/007
0223	Power Meter	Hewlett Packard	HP EPM-442A	US37480256
0252	K-Cable	Megaphase	Sucoflex 104	Unknown
0253	K-Cable	Megaphase	Sucoflex 104	Unknown
0256	K-Cable	Megaphase	Sucoflex 104	Unknown
0251	K-Cable	Megaphase	Sucoflex 104	Unknown

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