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Report On

FCC DFS Testing of the
Sharp 205SH AXGP & Quad-band WCDMA (FDD I/FDD V/FDD
VIII/FDD XI) Dual-mode Cellular Phone with Bluetooth, WLAN, Felica
and GPS

In accordance with FCC CFR 47 Part 15E and FCC 06-96

COMMERCIAL-IN-CONFIDENCE

FCC ID: APYHRO00193

Document 75921996 Report 14 Issue 2

May 2013



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TÜV SÜD Product Service, Octagon House, Concorde Way, Segensworth North,
Fareham, Hampshire, United Kingdom, PO15 5RL
Tel: +44 (0) 1489 558100. Website: www.tuv-sud.co.uk

COMMERCIAL-IN-CONFIDENCE

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PREPARED FOR

Sharp Communication Compliance Ltd
Azure House
Bagshot Road
Bracknell
Berkshire
RG12 7QY

PREPARED BY

Natalie Bennett
Senior Administrator (Technical)

APPROVED BY

Simon Bennett
Authorised Signatory

DATED

20 May 2013

This report has been up-issued to Issue 2 to include the updated application form.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part 15E and FCC 06-96. The sample tested was found to comply with the requirements defined in the applied rules.

Test Engineer(s);

S Milliken





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SECTION 1

REPORT SUMMARY

FCC DFS Testing of the
Sharp 205SH AXGP & Quad-band WCDMA (FDD I/FDD V/FDD VIII/FDD XI) Dual-mode
Cellular Phone with Bluetooth, WLAN, Felica and GPS
In accordance with FCC CFR 47 Part 15E and FCC 06-96



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1.1 INTRODUCTION

The information contained in this report is intended to show verification of the FCC DFS Testing of the Sharp 205SH AXGP & Quad-band WCDMA (FDD I/FDD V/FDD VIII/FDD XI) Dual-mode Cellular Phone with Bluetooth, WLAN, Felica and GPS to the requirements of FCC CFR 47 Part 15E and FCC 06-96.

Objective	To perform FCC DFS Testing to determine the Equipment Under Test's (EUT's) compliance with the Test Specification, for the series of tests carried out.
Manufacturer	Sharp Corporation
Model Number(s)	205SH
Serial Number(s)	IMEI 004401114778828
Hardware Version	PP1
Software Version	A4040
Number of Samples Tested	1
Test Specification/Issue/Date	FCC CFR 47 Part 15E (2012) FCC 06-96 (2006)
Incoming Release Date	Application Form 14 May 2013
Disposal Reference Number Date	Held Pending Disposal Not Applicable Not Applicable
Order Number Date	9669 22 April 2013
Start of Test	24 April 2013
Finish of Test	1 May 2013
Name of Engineer(s)	S Milliken
Related Document(s)	FCC Public Notice DA 02-2138 (2002); UKAS M3003: Edition 2 (2007); ETSI TR 100 028 (2001)



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1.2 TEST REQUIREMENTS

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without DFS	Client With DFS
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
Uniform Spreading	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client Without DFS	Client With DFS
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes



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1.3 BRIEF SUMMARY OF RESULTS

A brief summary of the tests carried out in accordance with FCC CFR 47 Part 15E and FCC 06-96 is shown below.

Section	Spec Clause	Test Description	Result	Comments/Base Standard
802.11(a)				
2.1	N/A	Calibration of Test Setup	Pass	
2.2	15.407 (h)(2)(iii)	In-Service Monitoring	Pass	
802.11(n) FCC - 5 GHz 20 MHz BW				
2.1	N/A	Calibration of Test Setup	Pass	
2.2	15.407 (h)(2)(iii)	In-Service Monitoring	Pass	
802.11(n) FCC - 5 GHz 40 MHz BW				
2.1	N/A	Calibration of Test Setup	Pass	
2.2	15.407 (h)(2)(iii)	In-Service Monitoring	Pass	



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1.4 APPLICATION FORM

EQUIPMENT DESCRIPTION	
Model Name/Number	205SH
Part Number	
Hardware Version	
Software Version	A4040 for DFS Testing F3282 for all other testing
FCC ID	APYHRO00193
Technical Description (Please provide a brief description of the intended use of the equipment)	AXGP and Quad-band (FDD I / V / VIII / XI) Dual-mode Cellular Phone with Bluetooth, WLAN, FeliCa and GPS

TYPE OF EQUIPMENT	
<input type="checkbox"/>	Master
<input type="checkbox"/>	Client with Radar Detection
<input checked="" type="checkbox"/>	Client without Radar Detection
<input type="checkbox"/>	Wi-Fi Direct Support

TRANSMITTER TECHNICAL CHARACTERISTICS	
FREQUENCY CHARACTERISTICS	
<input checked="" type="checkbox"/>	5.150 GHz to 5.250 GHz
<input checked="" type="checkbox"/>	5.250 GHz to 5.350 GHz
<input checked="" type="checkbox"/>	5.470 GHz to 5.725 GHz
<input type="checkbox"/>	5.725 GHz to 5.825 GHz
<input type="checkbox"/>	EUT operates in the frequency band 5600 – 5650 MHz?
<input type="checkbox"/>	Off Channel CAC Implemented
	Off Channel CAC within 5600 – 5650 MHz band hours, (1 – 24)
	Off Channel CAC outside 5600 – 5650 MHz band minutes, (6 – 240)
Note: DFS is not required in the ranges 5.15 – 5.25 GHz and 5.725 – 5.825 GHz	

TRANSMITTER RF POWER CHARACTERISTICS	
Maximum rated transmitter output power as stated by manufacturer (if applicable)	
Conducted Power	14.5 dBm
Maximum Antenna Gain	0 dBi
EIRP	14.5 dBm
Minimum rated transmitter output power as stated by manufacturer (if applicable)	
Conducted Power	6.0 dBm
Maximum Antenna Gain	0 dBi
EIRP	6.0 dBm
Is TPC supported?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes, provide a description of operation.	



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This equipment implements TPC accordance with IEEE802.11a/n and IEEE802.11h



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POWER SOURCE	
<input type="checkbox"/> AC mains supply	State voltage
AC supply frequency	(Hz) VAC
<input checked="" type="checkbox"/> DC supply	
Nominal voltage	4.0V

SYSTEM ARCHITECTURE			
<input type="checkbox"/>	Frame Based		
<input type="checkbox"/>	IP Based		
<input type="checkbox"/>	Other	If other please state	
<input checked="" type="checkbox"/>	802.11(a)	Receiver Bandwidth:	20 MHz
<input checked="" type="checkbox"/>	802.11(n) – 20 MHz	Receiver Bandwidth:	20 MHz
<input checked="" type="checkbox"/>	802.11(n) – 40 MHz	Receiver Bandwidth:	20/40 MHz
<input type="checkbox"/>	802.11(ac) – 20 MHz	Receiver Bandwidth:	MHz
<input type="checkbox"/>	802.11(ac) – 40 MHz	Receiver Bandwidth:	MHz
<input type="checkbox"/>	802.11(ac) – 80 MHz	Receiver Bandwidth:	MHz

DECLARATION	
No parameter or information relating to the detected radar waveforms is available or accessible to the end user.	
<input checked="" type="checkbox"/> True	<input type="checkbox"/> False

MISCELLANEOUS	
Power-on cycle time*	N/A – only applicable for Master device
* Time from switching on the UUT to the point at which Channel Availability Check (CAC) commences	

UNIFORM SPREADING	
Describe how the meter provides, on aggregate, uniform channel loading of the spectrum across all channels.	
N/A – only applicable for Master device	



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ANTENNA OPTIONS	
Antenna 1	
Antenna Description:	Bluetooth / WLAN antenna
Antenna Model:	GCABBA472AFS* : *= Colour Code
Antenna Maximum Gain:	0dBi
Antenna Frequency Range:	2.400 - 5.725MHz
Antenna 2	
Antenna Description:	
Antenna Model:	
Antenna Maximum Gain:	
Antenna Frequency Range:	
Antenna 3	
Antenna Description:	
Antenna Model:	
Antenna Maximum Gain:	
Antenna Frequency Range:	
Antenna 4	
Antenna Description:	
Antenna Model:	
Antenna Maximum Gain:	
Antenna Frequency Range:	
Antenna 5	
Antenna Description:	
Antenna Model:	
Antenna Maximum Gain:	
Antenna Frequency Range:	

I hereby declare that I am entitled to sign on behalf of the applicant and that the information supplied is correct and complete.

Signature: 

Name: Hiroyuki Uwatoko

Position held: Junior Manager

Date: 20th May, 2013



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1.5 PRODUCT INFORMATION

1.5.1 Technical Description

The Equipment Under Test (EUT) was a Sharp 205SH AXGP & Quad-band WCDMA (FDD I/FDD V/FDD VIII/FDD XI) Dual-mode Cellular Phone with Bluetooth, WLAN, Felica and GPS. A full technical description can be found in the manufacturer's documentation.

The EUT is a Client Without Radar Detection device.

1.6 TEST CONDITIONS

For all tests the EUT was set up in accordance with the relevant test standard and to represent typical operating conditions. See individual test clauses.

The EUT was powered from a 4.0 V DC supply.

1.7 DEVIATIONS FROM THE STANDARD

No deviations from the applicable test standard were made during testing.

1.8 MODIFICATION RECORD

Modification 0 - No modifications were made to the test sample during testing.



1.9 DFS TEST SYSTEM

The DFS system consists of hardware and software. The Hardware uses a PXI chassis with PXI instruments populating the chassis. The instruments used are a Vector Signal Generator, a Digitiser, Frequency References and a Dual Core PC. The measurement and analysis software runs on the PC and controls the instruments within the mainframe via commands on the PXI bus. Various markers are contained within the generated waveforms. The markers are used to trigger the measurement system at the appropriate points. An external trigger is also provided at the SMB output on the Vector Signal Generator which is employed where a Spectrum Analyser is used in place of the Aeroflex Digitiser. These are described within the test procedure for the applicable test.

The Aeroflex DFS software generates the pulses in accordance with FCC 06-96.

Short Pulse Radar Test Waveform (Types 1-4)

The short pulse radar simulation is a conventional amplitude pulse with varying pulse widths, pulse rate intervals (PRI) and number of pulses. General characteristics for these types and number of repetitions required by the standard are as follows:

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses
1	1	1428	18
2	1-5	150-230	23-29
3	6-10	200-500	16-18
4	11-20	200-500	12-16

FCC 06-96 - Table 5 – Short Pulse Radar Test Waveforms

Long Pulse Radar Test Waveform (Type 5)

The long pulse radar simulation is a 12 second concatenated series of chirps, chosen randomly. The general characteristics for type 5 and number of repetitions required by the standard are as follows:

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts
5	50-100	5-20	1000-2000	1-3	8-20



FCC 06-96 - Table 6 – Long Pulse Radar Test Waveform

A Type 5 Radar sequence is constructed in the following way:

- 1) The user provides the required level based on the calibration and the test frequency.
- 2) The Burst_Count, (a number between 8 and 20 inclusive), is chosen representing the number of "bursts" (or waveform segments). Type 5 waveform length is 12 seconds, thus each "burst" length will be $BL = 12 / \text{Burst_Count}$.
- 3) Pulse_Count, a number between 1 and 3 inclusive is chosen for each burst segment (1 through Burst_Count) representing the number of chirped pulses for each burst segment.
- 4) For each burst segment, the following chirp parameters are randomly chosen (all chirped pulses within a given burst segment are the same, whether 1, 2, or 3 chirped pulses are chosen):
 - a) Frequency width (5 MHz to 20 MHz, a linear and symmetrical ramp)
 - b) Pulse period (50 μs to 100 μs)
 - c) Pulse Rate Interval (1 ms to 2 ms, in 1 μs increments)
 - d) The start of the first pulse in a given burst segment is randomly chosen (in 1 μs increments) between 1 μs and [(the total burst length - (total of all pulse periods within a burst) + (the total space between pulses within a burst)]. Or stated otherwise, 1 μs to [(BL - (Pulse_Count * pulse period) + (Pulse_Count - 1)* randomly chosen PRI Interval)].

Frequency Hopping Test Waveform (Type 6)

The frequency hopping radar simulation emits 9 1 μs wide amplitude pulses with a 333 μs PRI spacing on a randomly chosen frequency, hops to another randomly chosen frequency, emits another 9 pulses and then continues this sequence for 100 different frequencies chosen using a pseudo random sequence. General characteristics for type 6 and number of repetitions required by the standard are as follows:

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)
6	1	333	9	0.333	300

FCC 06-96 - Table 7 – Frequency Hopping Radar Test Waveform

The frequency hopping Radar is generated in the following way:

- a) The user inputs the required level based on the calibration and a frequency within the EUT detection bandwidth.
- b) A sequence of 100 numbers, (n = 1 to 100), are randomly chosen from between 1 to 475 and then removed from the sequence producing 100 unique random numbers.
- c) Frequency assignments are 5250 MHz + n.
- d) If the list generated from steps (b) and (c) does not include at least one frequency which is between 5250 to 5350 MHz or 5470 to 5725 MHz, the list is regenerated.
- e) Secondly, in order to verify that at least one frequency in the list is at the EUT frequency plus or minus 1/2 the EUT detection bandwidth (i.e. at least one of the frequencies in the list must conflict with the EUT's operation such that the EUT will attempt to relocate when the sequence is played), the frequency supplied by the user is inserted into the list, replacing one selection.

Using the supplied Aeroflex software, the pulses are automatically generated and the required numbers of trials are created for each Radar Type – except in the case of Radar Type 1 which has no changeable attributes. The pulses are saved as Arbitrary Waveform files which are then selected by the user for use in the scenario being tested.



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SECTION 2

TEST DETAILS

FCC DFS Testing of the
Sharp 205SH AXGP & Quad-band WCDMA (FDD I/FDD V/FDD VIII/FDD XI) Dual-mode
Cellular Phone with Bluetooth, WLAN, Felica and GPS
In accordance with FCC CFR 47 Part 15E and FCC 06-96



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2.1 CALIBRATION OF TEST SETUP

2.1.1 Specification Reference

FCC CFR 47 Part 15E and FCC 06-96, Clause NA

2.1.2 Equipment Under Test and Modification State

205SH S/N: IMEI 004401114778828 - Modification State 0

2.1.3 Date of Test

1 May 2013

2.1.4 Environmental Conditions

Ambient Temperature	24.3°C
Relative Humidity	21.2%



2.1.5 Test Results

802.11(a)

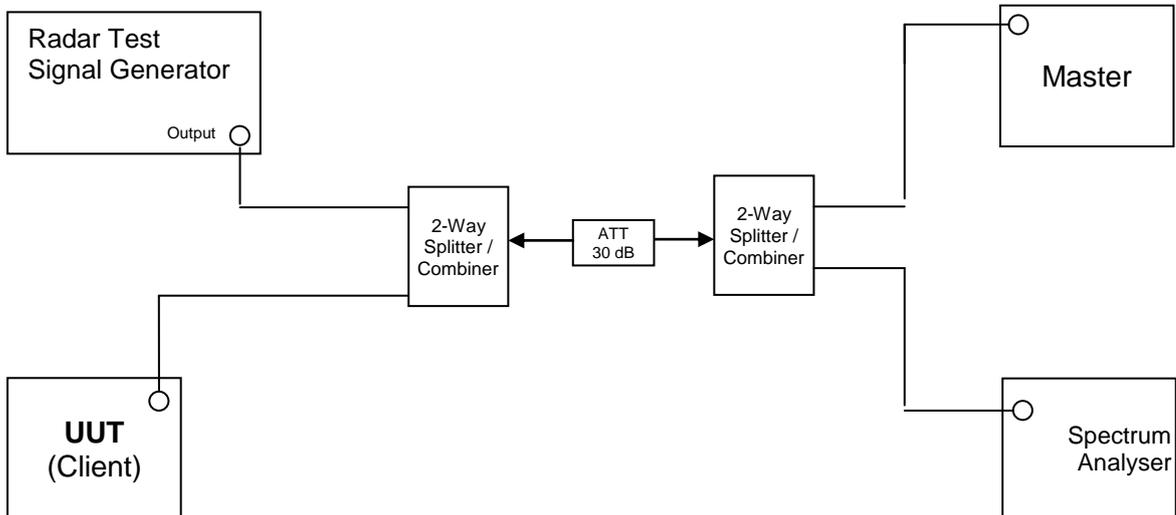
In this test equipment configuration, Radar signals are injected at the Master. The configuration ensures that the Radar pulses are received only by the Master device and not the Client. To calibrate the Radar pulses, the UUT was replaced by a Spectrum Analyser. The required Radar Waveform, (Type 1), was loaded into the Arbitrary Waveform Generator. The Spectrum Analyser was set to zero Span and the RBW and VBW set to 3MHz. The sweep time was set to display the entire burst and triggered on the Radar Burst. The output level of the Radar Signal Generator was adjusted to give the correct level as defined in the table below with the 1dB correction accounted for. Trace data showing the used Radar Pulses was recorded.

DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.	
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.	

Test Equipment Setup

Setup for Client with injection at the Master





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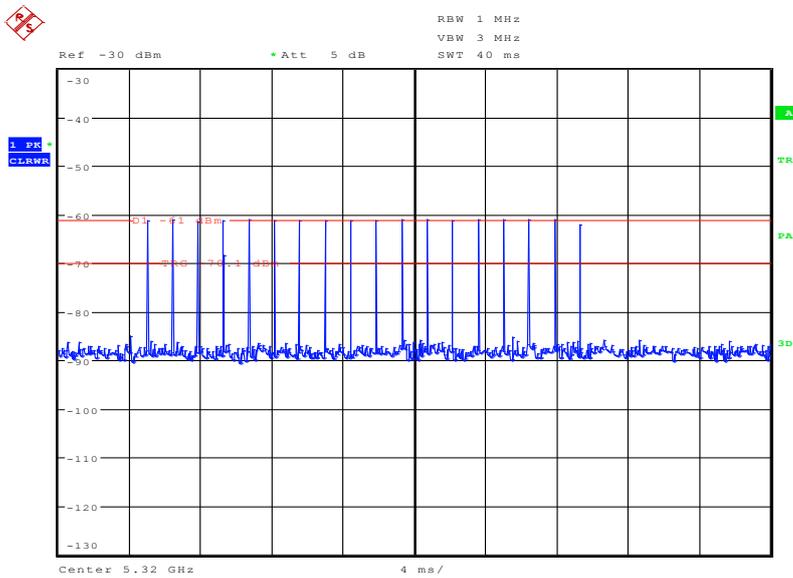
Radar Pulse Type 1

Short Radar Pulse Characteristics

Radar Type	Pulse Width (µs)	PRI (µs)	Number Of Pulses
1	1	1428	18

Client without Radar Detection

Radar Type 1 Plot

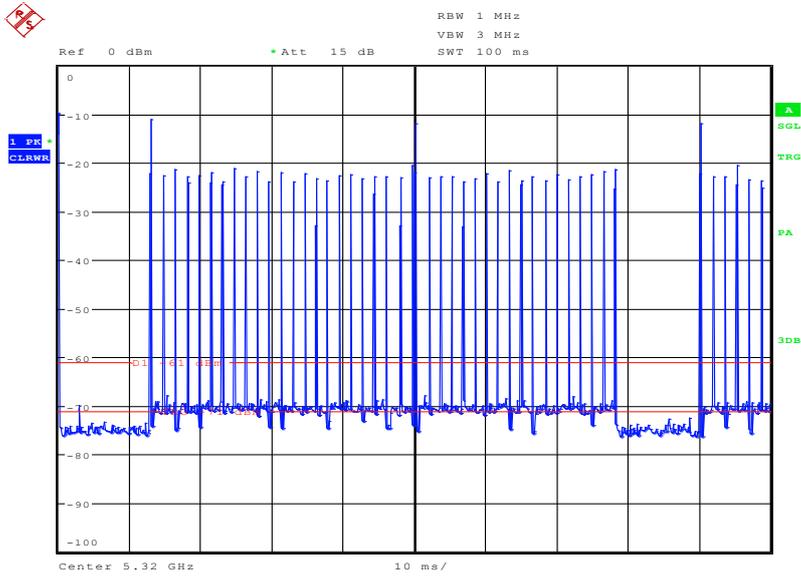


Date: 24.APR.2013 13:05:32



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Channel Loading Plot



Date: 24.APR.2013 12:21:16



802.11(n) FCC - 5 GHz 20 MHz BW

In this test equipment configuration, Radar signals are injected at the Master. The configuration ensures that the Radar pulses are received only by the Master device and not the Client. To calibrate the Radar pulses, the UUT was replaced by a Spectrum Analyser. The required Radar Waveform, (Type 1), was loaded into the Arbitrary Waveform Generator. The Spectrum Analyser was set to zero Span and the RBW and VBW set to 3MHz. The sweep time was set to display the entire burst and triggered on the Radar Burst. The output level of the Radar Signal Generator was adjusted to give the correct level as defined in the table below with the 1dB correction accounted for. Trace data showing the used Radar Pulses was recorded.

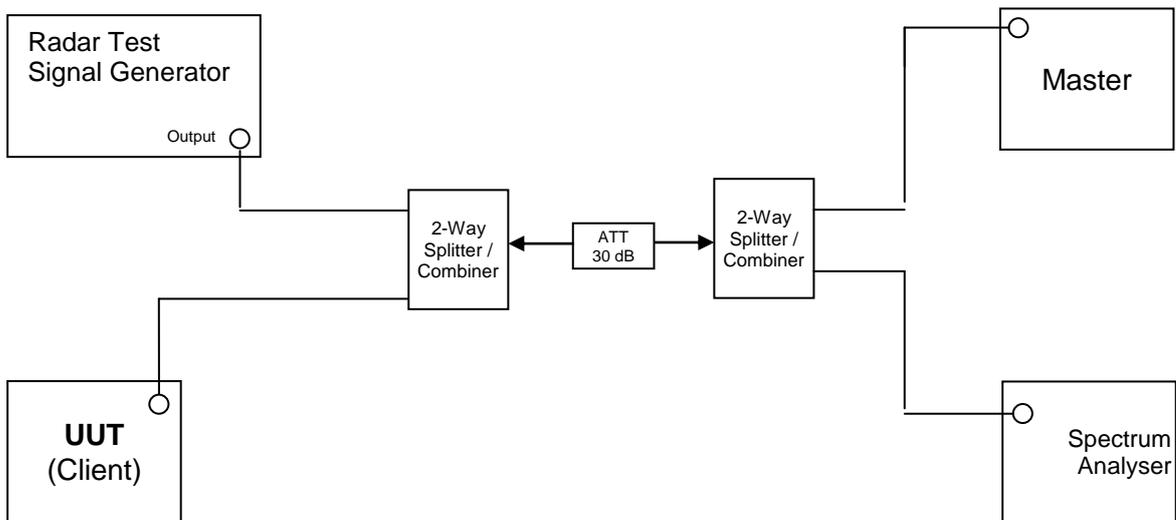
DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Test Equipment Setup

Setup for Client with injection at the Master





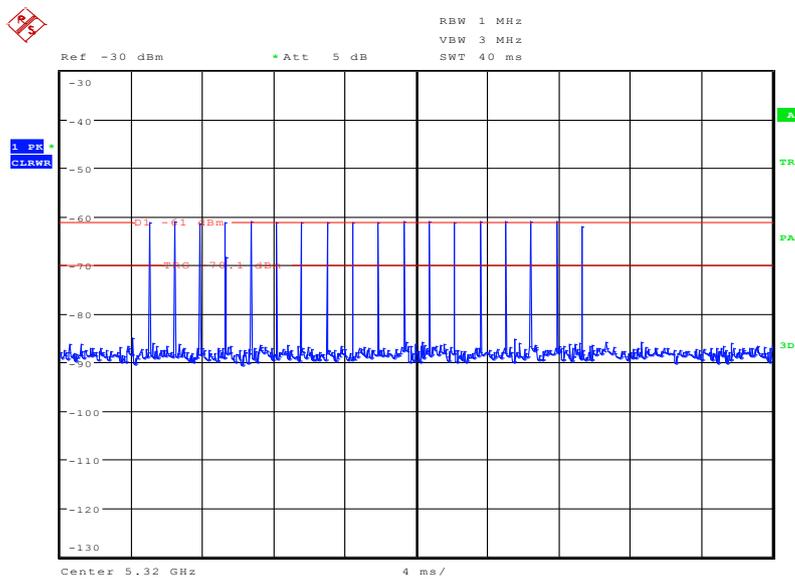
Radar Pulse Type 1

Short Radar Pulse Characteristics

Radar Type	Pulse Width (µs)	PRI (µs)	Number Of Pulses
1	1	1428	18

Client without Radar Detection

Radar Type 1 Plot

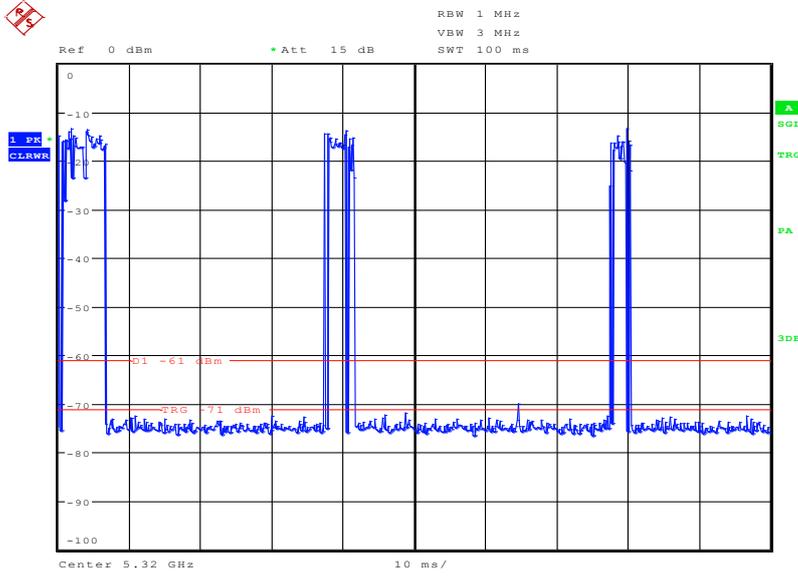


Date: 24.APR.2013 13:05:32



Product Service

Channel Loading Plot



Date: 24.APR.2013 12:23:06



802.11(n) FCC - 5 GHz 40 MHz BW

In this test equipment configuration, Radar signals are injected at the Master. The configuration ensures that the Radar pulses are received only by the Master device and not the Client. To calibrate the Radar pulses, the UUT was replaced by a Spectrum Analyser. The required Radar Waveform, (Type 1), was loaded into the Arbitrary Waveform Generator. The Spectrum Analyser was set to zero Span and the RBW and VBW set to 3MHz. The sweep time was set to display the entire burst and triggered on the Radar Burst. The output level of the Radar Signal Generator was adjusted to give the correct level as defined in the table below with the 1dB correction accounted for. Trace data showing the used Radar Pulses was recorded.

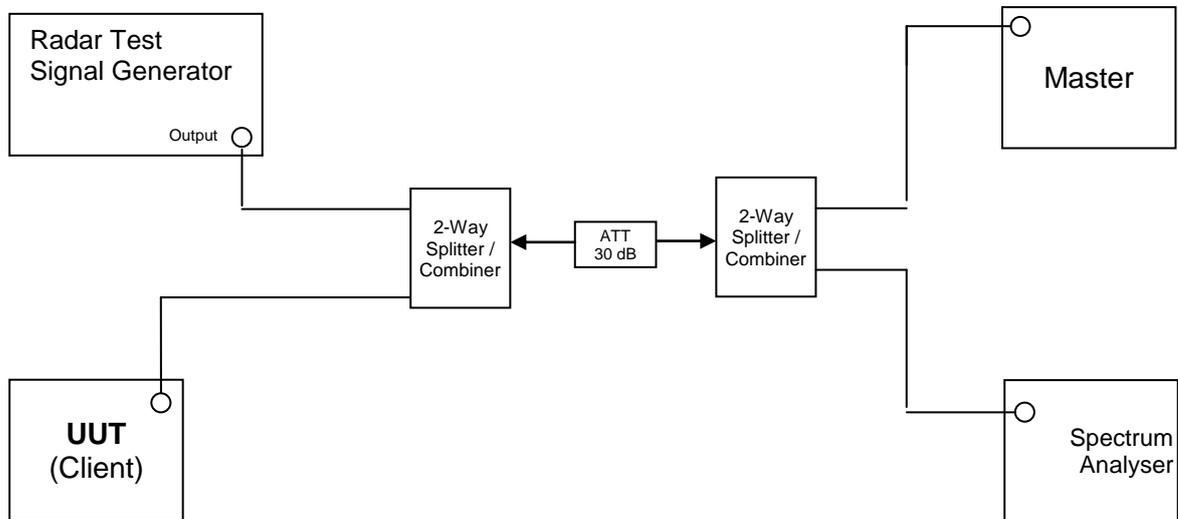
DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Test Equipment Setup

Setup for Client with injection at the Master





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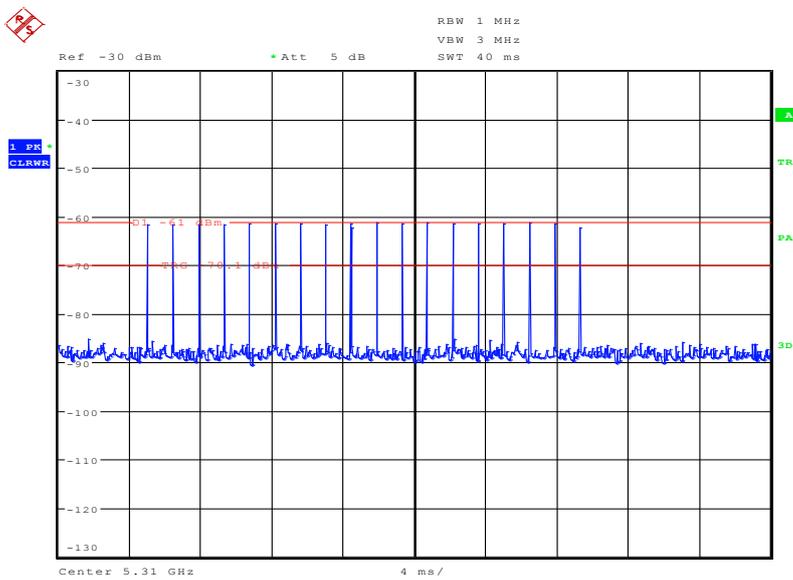
Radar Pulse Type 1

Short Radar Pulse Characteristics

Radar Type	Pulse Width (µs)	PRI (µs)	Number Of Pulses
1	1	1428	18

Client without Radar Detection

Radar Type 1 Plot

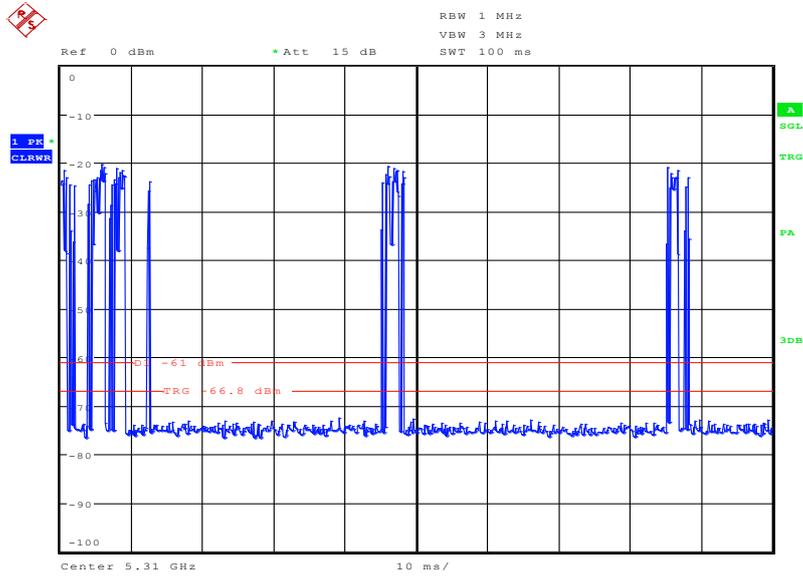


Date: 24.APR.2013 13:08:30



Product Service

Channel Loading Plot



Date: 24.APR.2013 12:32:30



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2.2 IN-SERVICE MONITORING

2.2.1 Specification Reference

FCC CFR 47 Part 15E, Clause 15.407 (h)(2)(iii)

2.2.2 Equipment Under Test and Modification State

205SH S/N: IMEI 004401114778828 - Modification State 0

2.2.3 Date of Test

24 April 2013 & 29 April 2013

2.2.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.5 Test Procedure

Client Without DFS

The EUT was associated with the FCC Approved Master device FCC ID: APYHRO00193. A laptop was connected via an Ethernet cable to the Master device and the FCC defined audio/video file was streamed to the Client device using Windows Media Player.

Radar Pulse Type 1 was then transmitted and the Spectrum monitored. The transmissions from the UUT were observed for a period of 12 seconds after the final injected Radar Pulse. The Channel Move Time and the Channel Closing Time were measured and recorded.

The plot also shows 0.6 seconds prior to the radar pulses being applied to the UUT.

2.2.6 Environmental Conditions

Ambient Temperature	22.8°C
Relative Humidity	27.1%



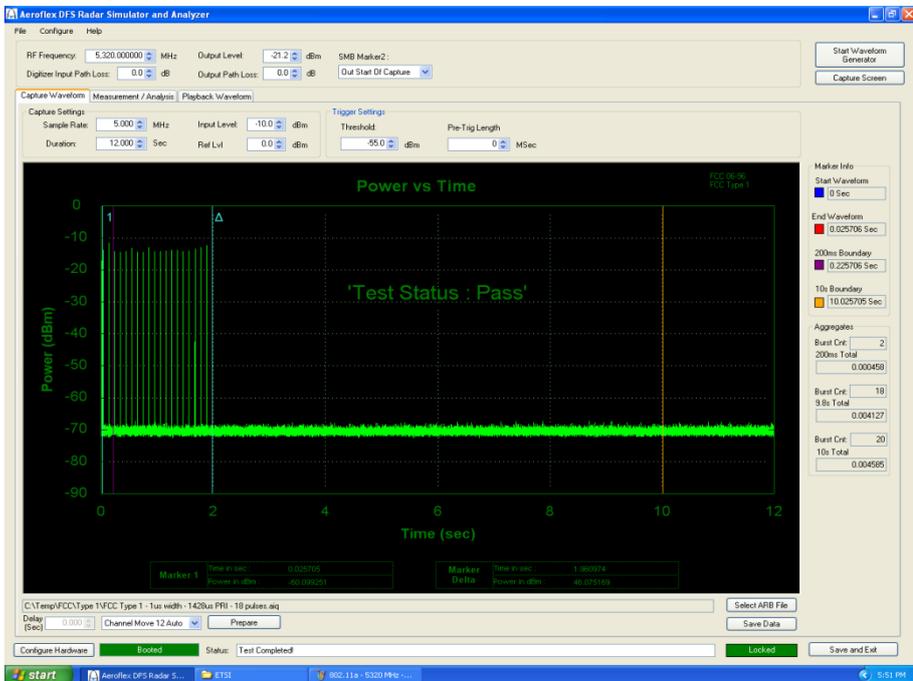
Product Service

2.2.7 Test Results

802.11(a)

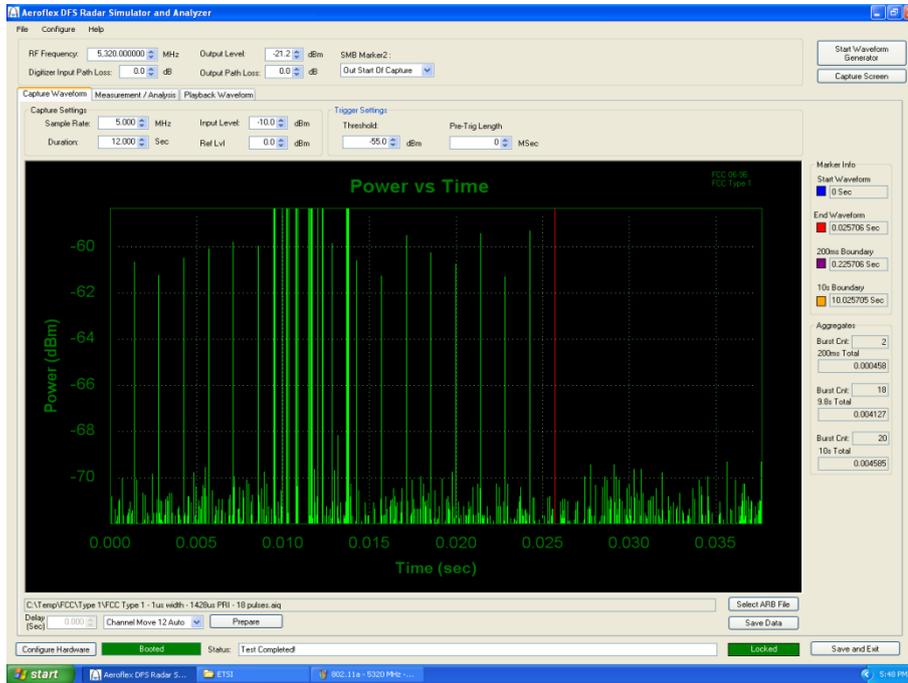
Channel Move Time	1.961 seconds
Channel Closing Time (Aggregate Time During 200ms)	0.458 ms
Channel Closing Time (Aggregate Time During +200ms to 10s)	4.127 ms
Channel Closing Time (Aggregate Time During 10s)	4.585 ms

Overall Power vs Time Display, showing channel closing and move time





Zoom of Radar Burst, Access Point and Client Signalling



Limit Clause 15.407 (h)(2)(iii) and FCC 06-96, Table 4

Channel Move Time	<10s
Channel Closing Time (Aggregate Time During 200ms)	<200ms
Channel Closing Time (Aggregate Time During +200ms to 10s)	<60ms

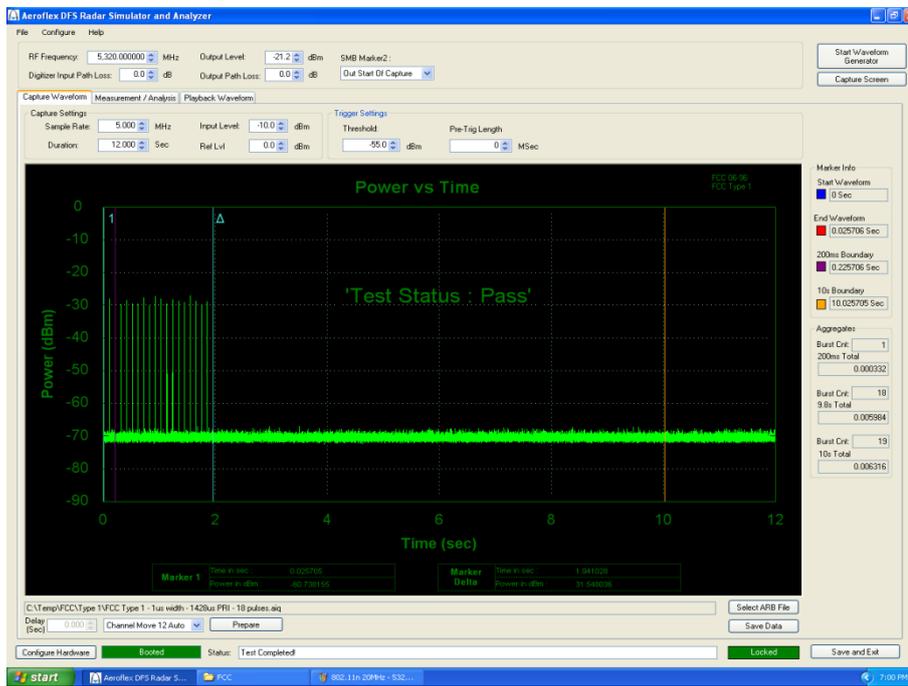


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802.11(n) FCC - 5 GHz 20 MHz BW

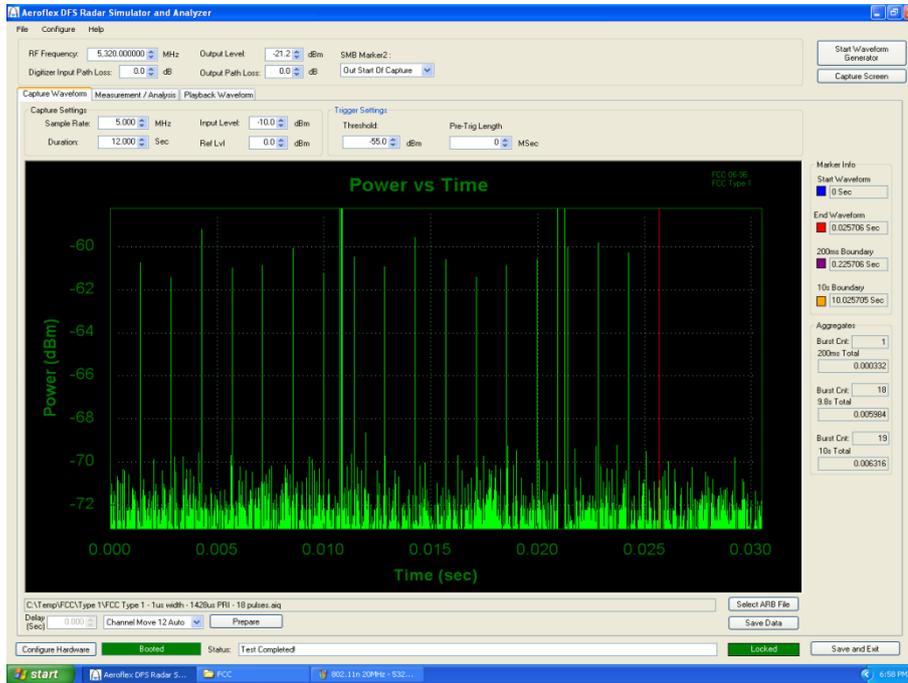
Channel Move Time	1.941 seconds
Channel Closing Time (Aggregate Time During 200ms)	0.332 ms
Channel Closing Time (Aggregate Time During +200ms to 10s)	5.984 ms
Channel Closing Time (Aggregate Time During 10s)	6.316 ms

Overall Power vs Time Display, showing channel closing and move time





Zoom of Radar Burst, Access Point and Client Signalling



Limit Clause 15.407 (h)(2)(iii) and FCC 06-96, Table 4

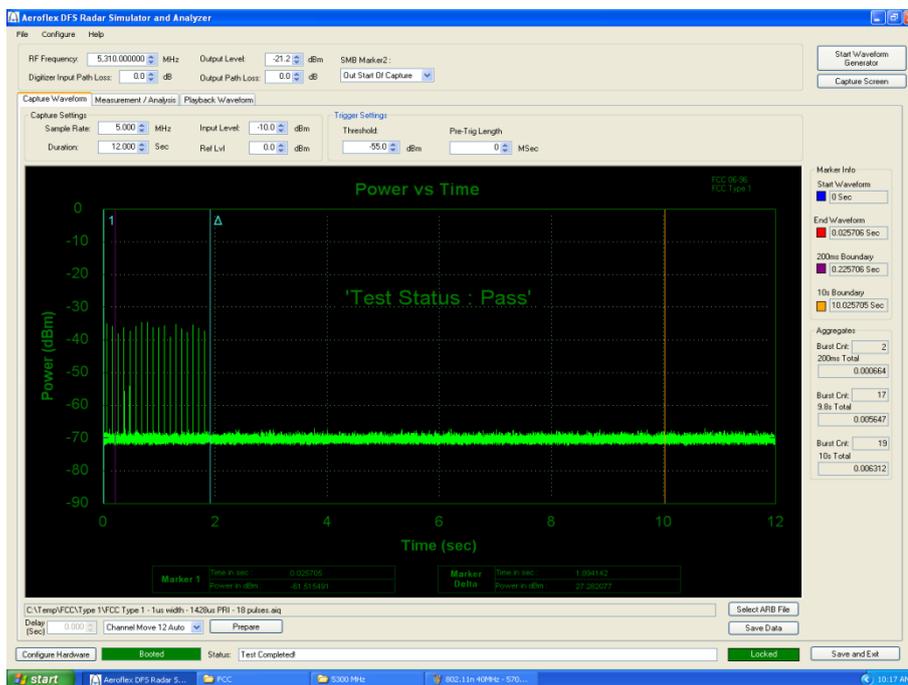
Channel Move Time	<10s
Channel Closing Time (Aggregate Time During 200ms)	<200ms
Channel Closing Time (Aggregate Time During +200ms to 10s)	<60ms



802.11(n) FCC - 5 GHz 40 MHz BW

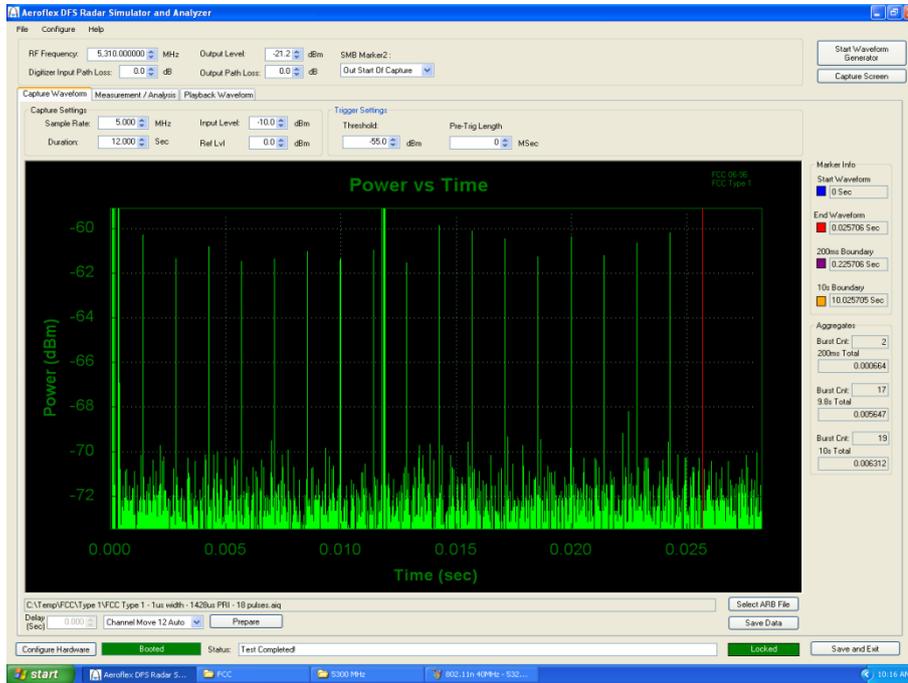
Channel Move Time	1.894 seconds
Channel Closing Time (Aggregate Time During 200ms)	0.664 ms
Channel Closing Time (Aggregate Time During +200ms to 10s)	5.647 ms
Channel Closing Time (Aggregate Time During 10s)	6.312 ms

Overall Power vs Time Display, showing channel closing and move time





Zoom of Radar Burst, Access Point and Client Signalling



Limit Clause 15.407 (h)(2)(iii) and FCC 06-96, Table 4

Channel Move Time	<10s
Channel Closing Time (Aggregate Time During 200ms)	<200ms
Channel Closing Time (Aggregate Time During +200ms to 10s)	<60ms



Product Service

SECTION 3

TEST EQUIPMENT USED



3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Section 2.2 - In Service Monitoring					
20dB/2W Attenuator	Narda	4772-20	461	-	TU
30dB Attenuator	Narda	4772-30	463	-	TU
Signal Analyser	Rohde & Schwarz	FSQ 26	3545	12	9-May-2013
PXI RF Digitizer	Aeroflex	3025	4012	24	6-Dec-2013
PXI RF Synthesizer	Aeroflex	3010	4013	24	6-Dec-2013
PXI RF Synthesizer	Aeroflex	3010	4014	24	6-Dec-2013
PXI Digital RF Signal Generator	Aeroflex	3025	4015	24	6-Dec-2013
1800-6000 MHz Power Splitter	Mini-Circuits	ZN2PD-63-S+	4055	-	O/P Mon
1800-6000 MHz Power Splitter	Mini-Circuits	ZN2PD-63-S+	4056	-	O/P Mon
1 Metre SMA Cable	Rhophase	3PS-1801A-1000-3PS	4100	12	25-Oct-2013
802.11a/n Access Point	Motorola	AP-650	-	-	O/P Mon
DFS Radar Simulator Analyser	Aeroflex Ltd	2.1.0	-	-	O/P Mon

TU – Traceability Unscheduled

O/P MON – Output Monitored with Calibrated Equipment



Product Service

3.2 SUPPORT TEST EQUIPMENT

Instrument	Manufacturer	Type No.	Serial Number
Access Point (802.11 a/n)	Motorola	AP-650	10055522200026
PC	Dell	DCSM	36DJP2J



Product Service

3.3 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:-

Test Discipline	MU
In-Service Monitoring	Time: $\pm 0.47\%$ Power: $\pm 1.29\text{ dB}$



Product Service

SECTION 4

PHOTOGRAPHS

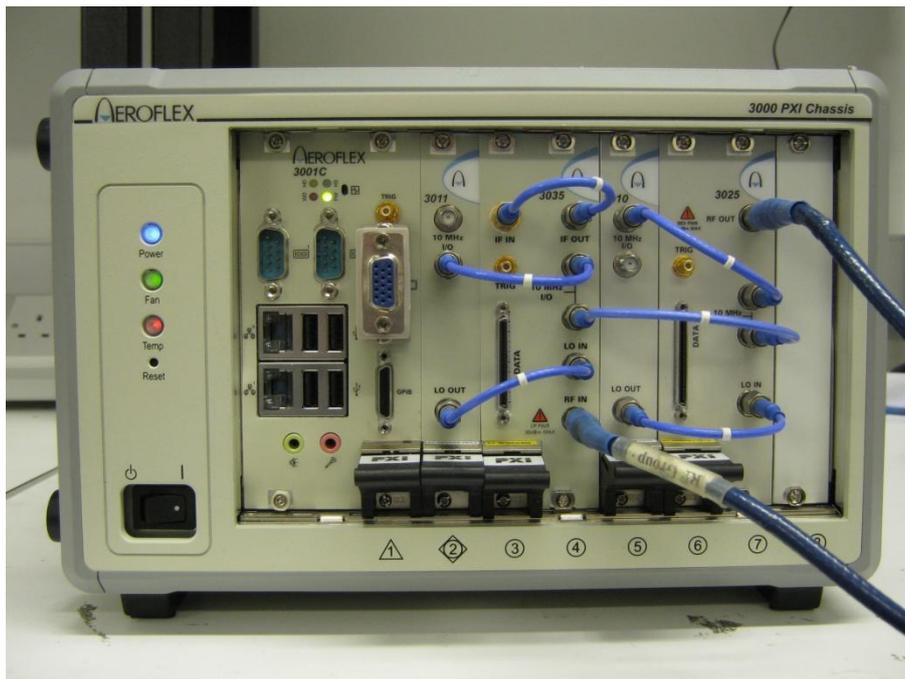


Product Service

4.1 TEST SET-UP PHOTOGRAPHS

See test set-up photographs exhibit “75921996 FCC Set Up Photos for DFS.pdf”.

4.2 DFS TEST EQUIPMENT



Test Set Up



Product Service

SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



Product Service

5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT



This report relates only to the actual item/items tested.

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation.

Results of tests not covered by our UKAS Accreditation Schedule are marked NUA (Not UKAS Accredited).

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