



TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: Beo Play V1-40" TV containing an LBWA1ZZPDZ-385 Module

FCC ID: TTULBWA1ZZPD

IC Certification Number: 3775B-LBWA1ZZPD

To: FCC Part 15.407: 2011 & Industry Canada RSS-210 Issue 8 December 2010

> Test Report Serial No.: RFI-RPT-RP84552JD02B V2.0

Version 2.0 Supersedes All Previous Versions

This Test Report Is Issued Under The Authority Of John Newell, Group Quality Manager:	Su
Checked By:	Sarah Williams
Signature:	Soch willows.
Date of Issue:	05 July 2012

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1. Customer Information

Company Name:	Bang & Olufsen a/s
Address:	Peter Bangs Vej 15 7600 Struer Denmark

2. Summary of Testing

2.1. General Information

Specification Reference:	47CFR15.407
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2011: Part 15 Subpart E (Unlicensed National Information Infrastructure Devices) - Section 15.407
Specification Reference:	Industry Canada RSS-210 Issue 8 December 2010
Specification Title:	Low-power Licence-exempt Radio communication Devices (All Frequency Bands): Category I Equipment.
Site Registration:	FCC: 209735; Industry Canada: 3245B-2
Test Date:	22 February 2012

2.2. Summary of Test Results

FCC Reference (47CFR)	IC Reference	Measurement	Result
Part 15.407(h)(2)(iii)	RSS-210 A9.3(b)(iii)(iv)	Channel Closing Transmission Time and Channel Move Time	٢
Part 15.407(h)(2)(iv)	RSS-210 A9.3(b)(v)	Non-occupancy Period	۲
Key to Results			
Second	t comply		

Note(s):

1. The Manufacturer confirms that information regarding the parameters of the radar waveforms is not available to the end user.

2.3. Methods and Procedures

Reference:	FCC 06-96
Title:	Compliance Measurement Procedures for Unlicensed-National Information Infrastructure Devices Operating in the 5250-5350 MHz and 5470-5725 MHz Bands Incorporating Dynamic Frequency Selection

2.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

Brand Name:	Bang & Olufsen
Model Name or Number:	Beo Play V1-40 40" TV containing a Murata LBWA1ZZPDZ-385 module
Serial Number:	22586321
Software Version Number:	0.0.0.23327
FCC ID:	TTULBWA1ZZPD
IC Certification Number:	3775B-LBWA1ZZPD

3.2. Description of EUT

The equipment under test was an IEEE 802.11a,b,g,n WLAN module operating in the 2.4 GHz and 5 GHz bands. The module is incorporated into a 40" television. The EUT has three external antenna ports, two transmit chains and three receive chains, MIMO is supported. For 802.11n operation the device uses MIMO (2 transmitters and 3 receivers). Depending on the 802.11 MCS, the device transmits 1 or 2 spatial stream. The device uses spatial multiplexing and from an RF point of view the streams are uncorrelated.

The EUT supports DFS as a Client without Radar Detection.

3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.4. Additional Information Related to Testing

Technology Tested:	Unlicensed National Information Infrastructure Devices (U-NII) / License-exempt local area network (LE-LAN)	
Type of Unit:	Transceiver	
Modulation:	CCK, BPSK, QPSK, 16QAM, 64QAM	
Data Rate:	IEEE 802 11a	6, 9, 12, 18, 24, 36, 48 & 54 Mbps
	IEEE 802.11n	6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 78, 104, 117 & 130 Mbps
TV Power Supply Requirement(s):	120 VAC 60 Hz	
Transmit / Receive Frequency Range:	5250 to 5350 MHz	
Transmit / Receive Channels Tested at 20 MHz Bandwidth setting:	Channel ID	Channel Frequency (MHz)
	56	5280
	64	5320
Transmit / Receive Frequency Range:	5470 to 5725 MHz	
Transmit / Receive Channels Tested at 40 MHz Bandwidth setting:	Channel ID	Channel Frequency (MHz)
	112	5560

Additional Information Related to Testing (continued)

Intended antenna for use with the Client device.

Antenna Model:	Min Antenna Gain:	Max Antenna Gain:
Tyco Electronics Part No. 1513711-1	+2 dBi	+2 dBi

Note: Antenna Impedance is 50 Ohms.

3.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Cisco Aironet IOS Access Point
Brand Name:	Cisco
Model Name or Number:	AIR-AP1252AG-A-K9
Serial Number:	FTX122391JU

Description:	Laptop
Brand Name:	Lenovo
Model Name or Number:	N/A
Serial Number:	RFI Asset No.: 00811

4. Operation and Monitoring of the EUT during Testing

4.1. Operating Modes

The EUT was tested in the following operating modes, unless otherwise stated:

- Operating on the channel selected by the Master device in either UNII Band II or UNII Band III.
- The Master device was set with the maximum power level (20 dBm / 100 mW).
- The Master device was set to 802.11n / MCS8 / 13 Mbps as this was found to be the highest conducted output power level for the Client EUT, results are available in RFI-RPT-RP84452JD02A.
- The Master device set the channel bandwidth to either 20 MHz or 40 MHz. NOTE: The Master device defined the channel the EUT (Client) operated at during testing. Channel shutdown test with 40 MHz channel bandwidth was tested on channel 112 / 5560 MHz.
- The DFS detection threshold of -63 dBm was used at the Master device antenna port. The Master has a maximum EIRP of 26 dBm with 0 dBi gain.

FCC 06-96 Table 3: 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 lovel at the input of the receiver accuming a 0 dBi receive enterna		

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.

4.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

- The EUT is a DFS Client without Radar Detection capability. It was tested in combination with a FCC approved Cisco DFS enabled router (FCC ID: LDK102061) being used as the Master . Due to the full compliance of the Master, radar pulse type 1 was injected to test the Client channel move behaviour.
- All measurements were made using a conducted link. The EUT has three external antenna ports, two transmit chains and three receive chains, MIMO is supported. System losses for the interconnecting hardware were measured and taken into consideration.
- For the required channel loading, the test MPEG video file was downloaded from the website http://ntiacsd.ntia.doc.gov/dfs/. The test file was then streamed in full motion at 30 frames per second from a laptop PC, via the Master device to the Client Device (EUT).
- The Radar test platform used was the Aeroflex DFS Radar 110105 Simulator and Analyzer which has been verified and accepted by Andrew Leimer of the FCC/NTIA on the 23rd of September 2011. Refer to Appendix 2 of this Test Report for the original confirmation email.
- The Channel move time was the time taken from the end of the radar waveform to the time the client ceased transmission. Any additional pulses were taken as control signals of which the aggregate time was also recorded.

Setup diagram for test of DFS Client without Radar Detection.



Rationale

The setup shown above ensures the waveforms indicated on the spectrum analyser are in order of magnitude. The Radar signal is most predominant followed by the Client and then the Master device.

Description

The Radar signal is set to the stated DFS detection threshold level at the Master. The signal is injected into the Master via the coupler and splitter. The coupled port ensures the radar is isolated from the Client.

The Radar signal is also directed through the coupler into the spectrum analyser where it can be observed.

The attenuators set up the order of magnitude of the signals and also prevent the Master from saturating the front end of the Client.

The Client signal passes to the DFS signal analyser / spectrum analyser via the coupled port.

Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client (without radar detection)	Client (with radar detection)
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

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

Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm
Note 1: This is the level at the input of the receiver assuming these test procedures an additional 1dB has been added to waveforms to account for variations in measurement equip	ng a 0 dBi receive antenna Note 2: Throughout the amplitude of the test transmission ment. This will ensure that the test signal is at or

DFS Response requirement values

above the detection threshold level to trigger a DFS response.

Parameter	Value
Non-occupancy period	30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
Channel Closing Transmission Time	200 milliseconds + approx. 60 milliseconds over remaining 10 second period

The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows: For the Short pulse radar Test Signals this instant is the end of the Burst. For the Frequency Hopping radar Test Signal, this instant is the end of the last radar burst generated. For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission. The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate channel changes (an aggregate of approximately 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum 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
Aggree	gate (Radar Types 1	I-4)	80%	12	0

Long Pulse Radar Test Signal

Radar Waveform	Bursts	Pulses per Burst	Pulse Width (µsec)	Chirp Width (^{Mtz})	PRI (µsec)	Minimum Percentage of Successful Detection	Minimum Trials
5	8-20	1-3	50-100	5-20	1000- 2000	80%	30

Frequency Hopping Radar Test Signal

Radar Waveform	Pulse Width (µsec)	PRI (µsec)	Burst Length (ms)	Pulses per Hop	Hopping Rate (kHz)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	300	9	.333	70%	30

5. Measurements, Examinations and Derived Results

5.1. General Comments

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to *Section 6 Measurement Uncertainty* for details.

5.2. Test Results

5.2.1. Channel Closing Transmission Time and Channel Move Time

Test Summary:

Test Engineer:	Sarah Williams	Test Date:	22 January 2012
Test Sample Serial No.:	22586321		

FCC Reference:	Part 15.407(h)(2)(iii)
Industry Canada Reference:	RSS-210 A9.3(b)(iii)(iv)
Test Method Used:	FCC 06-96 Section 7.8.3

Environmental Conditions:

Temperature (°C):	26
Relative Humidity (%):	29

Note(s):

1. The channel move time is the time taken from the end of the radar burst to the ceasing of transmissions of the EUT. The smaller transmissions seen in the first plot that are less than -40 dBm, come from the Master device and not from the Client, these transmissions can be ignored.

Results: 20 MHz / 5250 - 5350 MHz band

Radar #	Channel Frequency (MHz)	Channel Move Time (ms)	Total Aggregate Time (ms)	Limit (ms)	Margin (ms)	Status
1	5320	22.3	-	200	177.7	Complied
1	5320	-	0.685	60	59.315	Complied

Radar burst type 1 was detected and channel move occurred.

Channel Closing Transmission Time and Channel Move Time - Continued



Aeroflex DFS Radar Simulator a Configure Help	and Analyzer			
Utput Frequency: 5320 Utput Level: -6 dBm	MHz RF On Continuous Wave	Stimulus Output Path Loss: 0.0 dBm Digitizer Input Path Loss: 0.0 dBm	Mkr 2 Route SMB Off	Snap Sh
Top Of Screen: -10 dBm dB Per Division: 10	Sample Rate: 3.0 MHz Capture Duration: 12.0 🐳 Second(s)	Input Level: <mark>20 dBm ARB </mark>	t Select ARB File eats Channel List	Next Page >
-10.00				Start Waveform 0.61210 sec End Waveform
-30.00				0.63780 sec 200ms Boundary 0.83780 sec
_40.00				10s Boundary 10.63780 sec
-60.00				Burst Cnt: 0 200ms Total: 0.000000 sec
-70.00	l for gen beneved generations with a figuration of proceeding stores and the figuration of the figure	म्बर म्यू रे क्षेत्र कि विद्युत्त होता विद्यात् होता हो कि स्वार क्यू स्वार कि प्रता कि स्वार क्यू स्वार कि स्व स्वार म्यू रे क्षेत्र कि विद्युत्त होता विद्यात् हो स्वार क्यू स्वार क्यू स्वार क्यू स्वार कि स्वार क्यू स्वार क	na mana marina da para anta da	Burst Cnt: 0 9.8s Total: 0.000000 sec
-90.00 3.33333 3.66667	4.00000 4.33333 4.66667	5.00000 5.33333 5.66667 6.000 Seconds	000 6.33333 6.66667	Total Cnt: 0 10s Total: 0.000000 sec
ARB File:	DfsType1Pw1Pri1428Nop18NoChirp60h The Plotting Function Completed Success	Msps.aiq Trigger Threshold: ully. Play Capture	-50 dBm 30 Min Delay Arm 30 Auto Play Capture Manual	Min Begin CAC 🔽
aGen: L0: PXI7::12::INSTR	Digitizer: L0: PXI7::15::INSTR	Quick Boot		Exit Application

Channel Move Time – 3.3 to 6.6 seconds

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Channel Closing Transmission Time and Channel Move Time (continued)



Channel Move Time - 3.3 to 10 seconds

Aeroflex DFS Radar Simulator	and Analyzer		-	A Real Property lies		
Configure Help						
utput Frequency: 5320 Output Level: -6 dBm	MHz Continuous	RF On Wave	Stimulus Output Path Loss: Digitizer Input Path Loss:	0.0 dBm Mkr 2	Route SMB Off	Snap Sh
eate New Waveform Capture \	Waveform Measurement / Ar	alysis				
Top Of Screen: -10 dBm	Sample Rate: 3.0	MHz	Input Level: -20 dBm	ARB G Single Shot	Select ARB File	Next Page >
dB Per Division: 10	Capture Duration: 12.0	🕂 Second(s)		Mode C Continuous	Channel List	< Previous Page
-10.00						Marker Info.
						0.61210 sec
-20.00						End Waveform 0.63780 sec
-30.00						200ms Boundary
						0.83780 sec
-40.00						10.63780 sec
E50.00						Aggregates
						Burst Cnt: 0 200ms Total:
-60.00						0.000000 sec
-70.00		an in suit a suit a sui suit suit suit suit suit suit suit		a de la grande de la companya de la	a Maria San Ang	Burst Cnt: 0
80.00						0.000000 sec
-50.00						Total Cnt: 0
-90.00 10.00000 10.20000	10.40000 10.6000) 10.80000	11.00000 11.20000 Seconds	11.40000 11.60000 1	1.80000 12.00000	10s Total: 0.000000 sec
ARB File:	DfsType1Pw1Pri1428	Nop18NoChirp60Ms	ps.aiq	Trigger Threshold: -50 dBr	m 30 Min Delay Arm 30	Min Begin CAC 🔽
	The Auto Test Function (ompleted Successfu	illy.	Play Capture Auto	Play Capture Manual	Play
gGen: LO: PXI7::12::INSTR	Digitizer: LO: PXI7::	5::INSTR	Quick Boot	ted		Exit Application
	EP PAI/					11-22

Channel Move Time – 10 to 12 seconds

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Channel Closing Transmission Time and Channel Move Time (continued)

Radar #	Channel Frequency (MHz)	Channel Move Time (ms)	Total Aggregate Time (ms)	Limit (ms)	Margin (ms)	Status
1	5560	59.7	-	200	140.3	Complied
1	5560	-	1.56	60	58.44	Complied

Results: 40 MHz / 5470 - 5725 MHz band

Radar burst type 1 was detected and channel move occurred.



Channel Move Time - 0 to 3.3 seconds

Channel Closing Transmission Time and Channel Move Time (continued)





Aeroflex DFS Radar Simulato Configure Help	r and Analyzer			
utput Frequency: 5560 Output Level: -6 dBm	MHz RF On Continuous Wave	Stimulus Output Path Loss: 0.0 dBm Digitizer Input Path Loss: 0.0 dBm	Mkr 2 Route SMB Off	Snap Sh
reate New Waveform Capture	Waveform Measurement / Analysis			
Top Of Screen: 10 dBm dB Per Division: 10	Sample Rate: 3.0 MHz Capture Duration: 12.0 🛨 Second(s)	Input Level: 20 dBm ARB C Single Shot Play C No 0f Repe Mode C Continuous	Select ARB File Channel List	Next Page > < Previous Page
-10.00				Marker Info. Start Waveform 0.61210 sec
-20.00				End Waveform 0.63780 sec
-30.00				200ms Boundary 0.83780 sec
-40.00				10s Boundary 10.63780 sec
튭50.00				Aggregates Burst Cnt: 0
-60.00				200ms Total: 0.000000 sec
-70.00	ĬĸĨĨĸĨŦŗſĸġġġŧĬĬġġĸġġġġĸĸĸĸĸĸĸġŗĸĸĸĸĸŶſġĸŗſĬijĸijĬĹĸĸĸŗĸĸĬĸċġġĬĬĬĬŔŦġſŊĿĸĸ	معاليه الزيار ومناهم وسيلا لليك ومعروف والمعتابا والمعتابا والمعالية والمعالية وسيقاط بمعالية وسيقاط	an Allana anala an Usan an Aslana a Juana.	Burst Cnt: 0 9.8s Total: 0.000000 sec
-90.00	7,0000 7,0007 0,0000	0.0000 0.0007 0.0000 0.0000	0.00007 40.00000	Total Cnt: 0 10s Total: 0.000000 sec
6.66667 7.00000	7.33333 7.66667 8.00000	8.33333 8.66667 9.00000 9.3333 Seconds	9.66667 10.00000	Min Begin CAC
	The Plotting Function Completed Success	fully. Play Capture A	uto Play Capture Manual	Play
gGen: L0: PXI7::12::INSTR BE: PXI7::11::INSTR	Digitizer: L0: PXI7::15::INSTR BF: PXI7:-14::INSTR	Quick Boot		Exit Application

Channel Move Time - 6.6 to 10 seconds

Channel Closing Transmission Time and Channel Move Time (continued)



Channel Move Time - 10 to 12 seconds

5.2.2. Non-occupancy Period

Test Summary:

Test Engineer:	Sarah Williams	Sarah Williams Test Date:			
Test Sample Serial No.:	22586321				
FCC Reference: Part 15.407(h)(iv)					
Industry Canada Reference:	RSS-210 A9.3(b)(v)				
Test Method Used:FCC 06-96 Section 7.8.3					

Environmental Conditions:

Temperature (°C):	26
Relative Humidity (%):	29

Results: 20 MHz

Radar burst type 1 detected and channel was vacated for >30 minutes.



6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty	
Channel Move Time	5.15 GHz to 5.825 GHz	95%	0.32%	
Channel Close Time	5.15 GHz to 5.825 GHz	95%	0.32%	
Non-Occupancy Period	5.15 GHz to 5.825 GHz	95%	0.32%	
DFS Threshold (Conducted)	5.15 GHz to 5.825 GHz	95%	0.27dB	

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

|--|

RFI No.	Instrument	Manufacturer	Туре No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
A1368	Directional Coupler	Pasternack Enterprises	PE2214-10	-	Calibrated Before Use	-
A1391	Attenuator	Huber & Suhner	6810.17.B	757987	Calibrated Before Use	-
A1996	Attenuator	Huber & Suhner	6810.17.B	301749	Calibrated Before Use	-
A1997	Attenuator	Huber & Suhner	6810.17.B	301749	Calibrated Before Use	-
A1999	Attenuator	Huber & Suhner	6820.17.B	07101	Calibrated Before Use	
L1055	WLAN Access Point	CISCO	AIR- AP1252AG-A- K9	FTX122391JU	-	-
L1056	Power splitter	Mini-Circuits	ZN4PD1-63-S+	F310200814	Calibrated Before Use	-
M127	Spectrum Analyser	Rohde & Schwarz	FSEB30	842 659/016	23 Jul 2012	12
M1361	DFS Radar Simulator and Analyser	Aeroflex	110105	300110/291	11 Feb 2013	12

Appendix 2. Aeroflex Test Platform Approval email

From: Andrew Leimer [mailto:Andrew.Leimer@fcc.gov] Sent: Friday, September 23, 2011 4:24 PM To: Chisham, Steve Cc: Carey, Tim; Hack, Barry; Rashmi Doshi; Joe Dichoso Subject: RE: Certification for Aeroflex DFS solution

Hello Steve,

The Aeroflex "DXI based DFS test solution" system used for DFS alternative radar signal generation has been approved by the FCC and NTIA.

This approval permits the system to be used by labs in the testing of DFS devices for equipment authorization Certification. It is recommended that applicants that use your system for testing include a statement in the Test Report or a Letter Exhibit stating that the system has FCC and NTIA approval. This E-mail is your record of this approval. Note that the appropriate term for your system is Approved as the term Certification is reserved for

Note that the appropriate term for your system is Approved as the term Certification is reserved for devices gaining equipment authorization through the FCC or a TCB.

Regards,

Andy Leimer

FCC/OET/EACB

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Appendix 3. Test Setup photos





Appendix 4. Radar Calibration and Verification Data

Radar calibration procedure.

The system was configured as shown in the diagram below, with all ports terminated into their respective loads. The EUT was substituted with the radar test simulator and analyser and the output level was adjusted so that the required DFS threshold was observed. The EUT was then re-connected.

Radar Calibration Setup Block Diagram



Radar Type 1 Verification

Aeroflex DFS Radar Sim Configure Help	nulator and Analyzer				
utput Frequency: 5540	MHz	RF On	Stimulus Output Path Loss: 0.	dBm Mkr 2 Route S	SMB Off Snap Sh
reate New Waveform Ca	dBm apture Waveform Measur	ement / Analysis	Digitizer Input Path Loss: [U.	J dBm	
Top Of Screen: -10	dBm Sample	Rate: 3.0 MHz	Input Level: -50 dBm	ARB Single Shot	Select ARB File Next Page >
dB Per Division: 10	Capture Dur	ation: 1.0 🛨 Second(s)		Mode C Continuous	Channel List < Previous Page
-34.70					Marker Info. Start Waveform
-41.61					0.05104 sec End Waveform
					0.07675 sec
-48.53					200ms Boundary
-55.44					10s Boundary
E					
H02.33					Burst Cnt: 0
-69.26					200ms Total: 0.000000 sec
-76.18				Andre Million and Angeles and Million Yong Million	Burst Cnt: 0
					9.8s Total: 0.000000 sec
-83.09					Total Cnt: 0
-90.00					10s Total:
0.05024 0.0	5298 0.05571	0.05845 0.06119	0.06393 0.06667 Seconds	0.06940 0.07214 0.0748	0.000000 sec
ARB File:	DfsType1F	w1Pri1428Nop18NoChirp60M	lsps.aiq	Trigger Threshold: -50 dBm 30	Min Delay Arm 30 Min Begin CAC
	The Auto Test	Function Completed Success	fully.	Play Capture Auto Play C	apture Manual Play
LO: PXI7::12::I	NSTR Digitizer	L0: PXI7::15::INSTR	Quick Root		Fuit Application
BE PXIZ-11-I	NSTR Digitizet.	BE- PXI7-14-INSTR			

Appendix 5. System Noise Floor Reference Plots

As required by Section 8.3.18(iii) of FCC 06-96, the following plots show the reference noise floor of the system used during measurement.



Noise floor of Aeroflex test system.



Noise floor of spectrum analyser.