

Bensussen Deutsch & Associates, Inc.

Application For Certification

(FCC ID: YFK-10536601)

WiiU Pro Elite Wireless

Model: CPFA105366-01

Additional Models: CPFA101531-01, CPFA101532-01, CPFA101533-01, CPFA101534-01, CPFA101535-01, CPFA146235-01

2.4GHz Transceiver

Report No.: 130705015SZN-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-12]

Prepared and Checked by:

Approved by:

Sign on file

Harry Wu Assistant Engineer Billy Li Supervisor Date: August 12, 2013

• The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.

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• For Terms And Conditions of the services, it can be provided upon request.

• The evaluation data of the report will be kept for 3 years from the date of issuance.

TRF No.: FCC 15C_TX_b

Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch

6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China

Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6751 Website: www.china.intertek-etlsemko.com

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MEASUREMENT/TECHNICAL REPORT

Bensussen Deutsch & Associates, Inc. Model: CPFA105366-01 Additional Models: CPFA101531-01, CPFA101532-01, CPFA101533-01, CPFA101534-01, CPFA101535-01, CPFA146235-01

FCC ID: YFK-10536601

This report concerns (check one:)	Original Grant <u>X</u>	Class II Change
Equipment Type: <u>DXX - Part 15 Low Pow</u>	er Communication Devi	ce Transmitter
Deferred grant requested per 47 CFR 0.4	57(d)(1)(ii)? Yes	s No <u></u>
	lf yes, defer unti	:date
Company Name agrees to notify the Com	mission by:	
of the intended date of announcement of date.		date
Transition Rules Request per 15.37?	Yes	s No <u></u>
If no, assumed Part 15, Subpart C for Edition] provision.	intentional radiator -	the new 47 CFR [10-1-12
Report prepared by:		
	Billy Li Intertek Testing Servic Kejiyuan Branch 6F, Block D, Huahan Nanshan District, She Phone: (86 755) 860 Fax: (86 755) 860	Building, Langshan Road, nzhen, P. R. China 1 0645

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Exhibit type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
Test Report	Bandedge Plot	bandedge.pdf
Test Report	20dB BW Plot	bw.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
Operation Description	Technical Description	descri.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Confidentiality Letter	request.pdf
Cover Letter	Letter of Agency	agency.pdf

EXHIBIT 1

GENERAL DESCRIPTION

1.0 General Description

1.1 Product Description

The equipment under test (EUT) is a WiiU Pro Elite Wireless with Bluetooth function. The EUT was powered by a 3.7 VDC charged Li-ion rechargeable battery charged by an USB Power Adapter with AC 120V, 60Hz. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

The Models: CPFA101531-01, CPFA101532-01, CPFA101533-01, CPFA101534-01, CPFA101535-01, CPFA146235-01 are the same as the Model: CPFA105366-01 in hardware aspect, the difference in appearance and model number serves as marketing strategy.

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

1.2 Related Submittal(s) Grants

This is an application for certification of a transceiver for the WiiU Pro Elite Wireless which has Bluetooth function, and there is no corresponding unit for certification.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009). Radiated emission measurement was performed in Semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

1.4 Test Facility

The Semi-anechoic chamber and shielding room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC(Registration Number: 242492).

EXHIBIT 2

SYSTEM TEST CONFIGURATION

2.0 System Test Configuration

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2009).

The EUT was powered by a 3.7 VDC fully charged Li-ion rechargeable battery charged by an USB Power Adapter with AC 120V, 60Hz input during the test.

All packets DH1, DH3 & DH5 mode in modulation type GFSK were tested, and only the worst data was reported in this report.

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Exhibit 3.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on a turn table, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

The EUT exercise program (provided by client) used during testing was designed to exercise the various system components in a manner similar to a typical use.

2.3 Special Accessories

N/A

2.4 Equipment Modification

Any modifications installed previous to testing by Bensussen Deutsch & Associates, Inc. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd Kejiyuan Branch.

2.5 Measurement Uncertainty

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

2.6 Support Equipment List and Description

Description	Manufacturer	Model No.		
Wii U	Nintendo	Wii U		
LCD TV	Sony	KDL-24EX520		
1.5m unshielded AV Line	Nintendo	N/A		
USB Power Adapter	Apple	A1357		
2.5m unshielded USB Cable	Bensussen Deutsch & Associates, Inc.	N/A		

EXHIBIT 3

EMISSION RESULTS

3.0 Emission Results

Data is included worst-case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

3.1 Radiated Test Results

A sample calculation, configuration photographs and data tables of the emissions are included.

3.1.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD + AV

Where $FS = Field Strength in dB\mu V/m$ $RA = Receiver Amplitude (including preamplifier) in dB\mu V$ CF = Cable Attenuation Factor in dB AF = Antenna Factor in dB AG = Amplifier Gain in dB PD = Pulse Desensitization in dBAV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

FS = RA + AF + CF - AG + PD + AV

Assume a receiver reading of 62.0 dBµV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dBµV/m. This value in dBµV/m was converted to its corresponding level in μ V/m.

RA = 62.0 dB μ V AF = 7.4 dB CF = 1.6 dB AG = 29.0 dB PD = 0 dB AV = -10 dB FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 dB μ V/m

Level in μ V/m = Common Antilogarithm [(32 dB μ V/m)/20] = 39.8 μ V/m

3.1.2 Radiated Emission Configuration Photograph

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos. pdf.

3.1.3 Radiated Emissions

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Worst Case Radiated Emission at 168.022 MHz

Judgement: Passed by 7.8 dB

TEST PERSONNEL:

Sign on file

Harry Wu, Assistant Engineer Typed/Printed Name

<u>August 12, 2013</u> Date

Applicant: Bensussen Deutsch & Associates, Inc. Model: CPFA105366-01 Sample: 1/1 Worst Case Operating Mode: Transmit with charging Date of Test: August 12, 2013

Table 1

Radiated Emissions

Polarization	Frequency	Reading	Pre-	Antenna	Net	Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)				
Horizontal	95.960	33.2	20.0	8.2	21.4	43.5	-22.1
Horizontal	168.006	39.7	20.0	10.0	29.7	43.5	-13.8
Horizontal	288.020	36.6	20.0	14.3	30.9	46.0	-15.1
Vertical	96.014	42.0	20.0	8.2	30.2	43.5	-13.3
Vertical	168.022	45.7	20.0	10.0	35.7	43.5	-7.8
Vertical	191.990	40.6	20.0	8.3	28.9	43.5	-14.6

NOTES: 1. Quasi-Peak detector is used except for others stated.

- 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. All emissions are below the QP limit.

3.1.4 Transmitter Spurious Emissions (Radiated)

Worst Case Radiated Emission at 4804.000 MHz

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos. pdf.

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 2.9 dB

TEST PERSONNEL:

Sign on file

Harry Wu, Assistant Engineer Typed/Printed Name

August 12, 2013 Date

Applicant: Bensussen Deutsch & Associates, Inc. Model: CPFA105366-01 Sample: 1/1 Worst Case Operating Mode: Transmit with charging Date of Test: August 12, 2013

Table 2

Radiated Emissions

(2402MHz)

Polarization	Frequency	Reading	Pre-	Antenna	Net	Peak Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)				
Horizontal	2402.000	109.8	36.7	28.5	101.6	114.0	-12.4
Horizontal	4804.000	72.8	36.7	35.0	71.1	74.0	-2.9
Horizontal	7206.000	57.9	36.1	37.0	58.8	74.0	-15.2
Horizontal	9608.000	56.3	36.2	37.5	57.6	74.0	-16.4

Polarization	Frequency	Reading	Pre-	Antenna	Average	Net	Average Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(-dB)	(dBµV/m)	(dBµV/m)	
			(dB)					
Horizontal	2402.000	109.8	36.7	28.5	22.5	79.1	94.0	-14.9
Horizontal	4804.000	72.8	36.7	35.0	22.5	48.6	54.0	-5.4
Horizontal	7206.000	57.9	36.1	37.0	22.5	36.3	54.0	-17.7
Horizontal	9608.000	56.3	36.2	37.5	22.5	35.1	54.0	-18.9

Notes: 1. Peak Detector Data unless otherwise stated.

- 2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Harry Wu

Applicant: Bensussen Deutsch & Associates, Inc. Model: CPFA105366-01 Sample: 1/1 Worst Case Operating Mode: Transmit with charging Date of Test: August 12, 2013

Table 3

Radiated Emissions

(2441MHz)

	_						
Polarization	Frequency	Reading	Pre-	Antenna	Net	Peak Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)				
Horizontal	2441.000	106.6	36.7	28.5	98.4	114.0	-15.6
Horizontal	4882.000	60.5	36.7	35.0	58.8	74.0	-15.2
Horizontal	7323.000	65.4	36.1	37.0	66.3	74.0	-7.7
Horizontal	9764.000	56.3	36.2	38.0	58.1	74.0	-15.9

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2441.000	106.6	36.7	28.5	22.5	75.9	94.0	-18.1
Horizontal	4882.000	60.5	36.7	35.0	22.5	36.3	54.0	-17.7
Horizontal	7323.000	65.4	36.1	37.0	22.5	43.8	54.0	-10.2
Horizontal	9764.000	56.3	36.2	38.0	22.5	35.6	54.0	-18.4

Notes: 1. Peak Detector Data unless otherwise stated.

- 2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Harry Wu

Applicant: Bensussen Deutsch & Associates, Inc. Model: CPFA105366-01 Sample: 1/1 Worst Case Operating Mode: Transmit with charging Date of Test: August 12, 2013

Table 4

Radiated Emissions

(2480MHz)

Polarization	Frequency	Reading	Pre-	Antenna	Net	Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)				
Horizontal	2480.000	106.6	36.7	28.3	98.2	114.0	-15.8
Horizontal	4960.000	59.9	36.7	35.3	58.5	74.0	-15.5
Horizontal	7440.000	68.8	36.1	37.0	69.7	74.0	-4.3
Horizontal	9920.000	55.7	36.3	38.7	58.1	74.0	-15.9

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2480.000	106.6	36.7	28.3	22.5	75.7	94.0	-18.3
Horizontal	4960.000	59.9	36.7	35.3	22.5	36.0	54.0	-18.0
Horizontal	7440.000	68.8	36.1	37.0	22.5	47.2	54.0	-6.8
Horizontal	9920.000	55.7	36.3	38.7	22.5	35.6	54.0	-18.4

Notes: 1. Peak Detector Data unless otherwise stated.

- 2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Harry Wu

- 3.2 Conducted Emission at Mains Terminal
- 3.2.1 Conducted Emissions Configuration Photograph

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

3.2.2 Conducted Emissions

Worst Case Live-Conducted Configuration At

0.614 MHz

Judgement: Passed by 18.9 dB margin

TEST PERSONNEL:

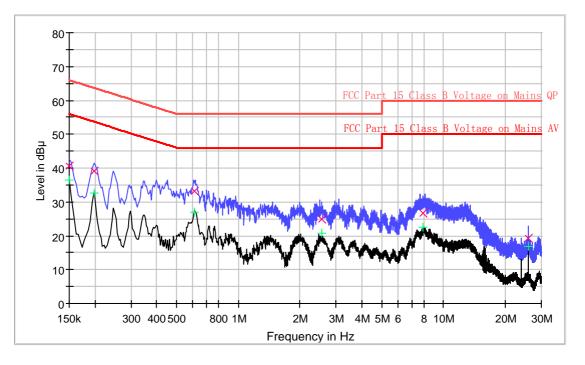
Sign on file

Harry Wu, Assistant Engineer Typed/Printed Name

August 12, 2013 Date

Applicant: Bensussen Deutsch & Associates, Inc. Model: CPFA105366-01 Sample: 1/1 Worst Case Operating Mode: Transmit with charging Date of Test: August 12, 2013

Conducted Emission Test - FCC



Result Table QP

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dB µ V)		(dB)	(dB)	(dB µ V)
0.150000	40.6	L1	9.6	25.4	66.0
0.198000	39.2	L1	9.6	24.5	63.7
0.614000	33.1	L1	9.6	22.9	56.0
2.554000	24.8	L1	9.8	31.2	56.0
7.982000	26.8	L1	9.9	33.2	60.0
26.002000	19.2	L1	10.1	40.8	60.0

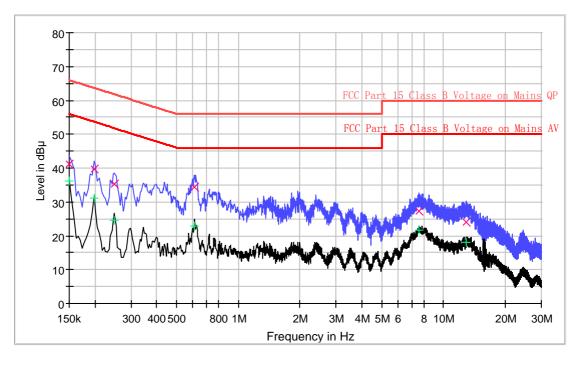
Result Table AV

Frequency	Average	Line	Corr.	Margin	Limit
(MHz)	(dB		(dB)	(dB)	(dB µ V)
0.150000	36.5	L1	9.6	19.5	56.0
0.198000	32.5	L1	9.6	21.2	53.7
0.614000	27.1	L1	9.6	18.9	46.0
2.554000	20.6	L1	9.8	25.4	46.0
7.982000	22.6	L1	9.9	27.4	50.0
26.002000	17.0	L1	10.1	33.0	50.0

TRF No.: FCC 15C_TX_b FCC ID: YFK-10536601 Report No.: 130705015SZN-001

Applicant: Bensussen Deutsch & Associates, Inc. Model: CPFA105366-01 Sample: 1/1 Worst Case Operating Mode: Transmit with charging Date of Test: August 12, 2013

Conducted Emission Test - FCC



Result Table QP

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dB µ V)		(dB)	(dB)	(dB µ V)
0.150000	41.1	Ν	9.6	24.9	66.0
0.198000	39.8	Ν	9.6	23.9	63.7
0.250000	35.3	Ν	9.6	26.5	61.8
0.613000	34.3	Ν	9.6	21.7	56.0
7.582000	27.1	Ν	10.0	32.9	60.0
12.922000	24.1	Ν	10.0	35.9	60.0

Result Table AV

Frequency	Average	Line	Corr.	Margin	Limit
(MHz)	(dB		(dB)	(dB)	(dB µ V)
0.150000	36.3	Ν	9.6	19.7	56.0
0.198000	31.1	Ν	9.6	22.6	53.7
0.250000	24.6	Ν	9.6	27.2	51.8
0.613000	22.9	Ν	9.6	23.1	46.0
7.582000	21.7	Ν	10.0	28.3	50.0
12.922000	18.0	Ν	10.0	32.0	50.0

TRF No.: FCC 15C_TX_b FCC ID: YFK-10536601 Report No.: 130705015SZN-001

EXHIBIT 4

EQUIPMENT PHOTOGRAPHS

4.0 Equipment Photographs

For electronic filing, the photographs of the tested EUT are saved with filename: external photos.pdf & internal photos.pdf.

EXHIBIT 5

PRODUCT LABELLING

5.0 **Product Labelling**

For electronic filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

EXHIBIT 6

TECHNICAL SPECIFICATIONS

6.0 **Technical Specifications**

For electronic filing, the block diagram and schematics of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

EXHIBIT 7

INSTRUCTION MANUAL

7.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

EXHIBIT 8

MISCELLANEOUS INFORMATION

8.0 Miscellaneous Information

This miscellaneous information includes details of the measured bandedge, the test procedure and calculation of factor such as pulse desensitization.

8.1 Bandedge Plot

For electronic filing, the plot shows the fundamental emission when modulated is saved with filename: bandedge.pdf. From the plot, the field strength of any emissions outside of the specified frequency band are attenuated to the general radiated emission limits in section 15.209. It fulfils the requirement of 15.249(d).

Peak Measurement

Bandedge compliance is determined by applying marker-delta method, i.e (Bandedge Plot).

(i) Lower channel 2402MHz:

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot = 101.6 dBµv/m-45.1 dB = 56.5 dBµv/m	
Average Resultant field strength = Fundamental emissions (Average value) – delta from the bandedge plot	

- = 79.1dB μ v/m-45.1dB
- = 34.0 dBµv/m

(ii) Upper channel 2480MHz:

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot = 98.2 dBμv/m-52.7 dB = 45.5 dBμv/m	
Average Resultant field strength = Fundamental emissions (Average value) -	

delta from the bandedge plot = 75.7 dB μ v/m-52.7 dB

= 23.0 dBµv/m

The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 74dB μ v/m (Peak Limit) and 54dB μ v/m (Average Limit).

8.1 Bandedge Plot (cont'd)

Pursuant to FCC part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered.

Figure 8.1 Bandwidth

8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (T_{eff}) is approximately 625µs for Bluetooth. With a resolution bandwidth (3dB) of 1MHz, so the pulse desensitivity factor is 0dB.

8.3 Transmitter Duty Cycle Calculation, FCC Rule 15.35(b, c)

Based on the Bluetooth Specification Version 2.1 without EDR, transmitter ON time is independent of packet type (DH1, DH3 and DH5) and packet length

Channel hop rate = 800 hops/second (AFH Mode)

Adjusted channel hop rate for DH5 mode = 133.33 hops/second

Time per channel hop = 1 / 133.33 hops/second = 7.5 ms

Time to cycle through all channels = 7.5 x 20 channels = 150 ms

Number of times transmitter hits on one channel = 100 ms / 150 ms = 1 time(s)

Worst case dwell time = 7.5 ms

Duty cycle connection factor = 20log₁₀(7.5ms / 100ms) = -22.5 dB

8.4 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 - 2009.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjust through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

Detector function for conducted emissions is in QP & AV mode and IFBW setting is 9 kHz from the frequency band 150 kHz to 30MHz.

8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements are made as described in ANSI C63.4 - 2009.

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. Above 1000 MHz, a resolution bandwidth of 1 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, but those measurements taken at a closer distance are so marked.

EXHIBIT 9

CONFIDENTIALITY REQUEST

9.0 **Confidentiality Request**

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

EXHIBIT 10

TEST EQUIPMENT LIST

10.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-03	BiConiLog Antenna	ETS	3142C	00066460	29-Jun-13	29-Jun-14
SZ185-01	EMI Receiver	R&S	ESCI	100547	12-Mar-13	12-Mar-14
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	26-Feb-13	26-Aug-13
SZ061-08	Horn Antenna	ETS	3115	00092346	03-Nov-12	03-Nov-13
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	13-May-13	13-May-14
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	12-Mar-13	12-Mar-14
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	12-Mar-13	12-Mar-14
SZ188-01	Anechoic Chamber	ETS	RFD-F/A- 100	4102	02-Mar-13	02-Mar-14
SZ062-02	RF Cable	RADIALL	RG 213U		26-Feb-13	26-Aug-13
SZ062-06	RF Cable	RADIALL	0.04- 26.5GHz		26-Feb-13	26-Aug-13
SZ062-12	RF Cable	RADIALL	0.04- 26.5GHz		22-Apr-13	22-Oct-13
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02		21-May-13	21-May-14
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	05-Nov-12	05-Nov-13
SZ187-01	Two-Line V- Network	R&S	ENV216	100072	05-Nov-12	05-Nov-13
SZ187-02	Two-Line V- Network	R&S	ENV216	100073	05-Nov-12	05-Nov-13
SZ188-03	Shielding Room	ETS	RFD-100	4100	16-Sep-10	16-Sep-13