FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 1 of 42 Sheets



# CONFORMANCE TEST REPORT FOR FCC Part 15, subpart D (15.323c) and Industry Canada RSS-213, Issue 2 (4.3.4b)

Report No.: 11-06-MAS-051-01

Client: (1) CCT Marketing, Ltd. (USA)

(2) CCT Tech Advanced Products Limited (Canada)

Product: DECT 6.0 CORDLESS SKYPE TELEPHOEN

Model: 31599

FCC ID: XYT31599
IC ID: 1945A-31591

Manufacturer/supplier: Huiyang CCT Telecommunications Products Co. Ltd.

Date test item received: 2011/06/08

Date test campaign completed: 2011/07/04

Date of issue: 2011/07/06

The test result only corresponds to the tested sample. It is not permitted to copy this report, in part or in full, without the permission of the test laboratory.

Total number of pages of this test report: 42 pages

Test Engineer	Checked By	Approved By	
JohnLi	Jamo Chag	Joe Hitch	
// John Li	James Cheng	Joe Hsieh	

FCC ID: XYT31599 IC ID: 1945A-31591

# **Table of Contents Page**

1 GENARAL INFORMATION	3
1.1 Testing Laboratory	
1.3 Manufacturer	
2 TEST INFORMATION	4
2.1 Description of Tested Device(s)	4
2.2 Test Environment	4
3 TEST REPORT SUMMARY	5
3.1 Test Summary	5
3.2 Other Comments	6
4 TEST SETUP	7
4.1 Monitoring Tests	7
5 TEST EQUIPMENT LIST	8
6 TEST RESULT	9
6.1 Monitoring time	9
6.2 Monitoring threshold	10
6.3 Maximum transmit period	11
6.4 System Acknowledgement	13
6.5 Least Interfered Channel, LIC	20
6.6 Random waiting	29
6.7 Monitoring bandwidth and reaction time	30
6.8 Monitoring antenna	37
6.9 Monitoring threshold relaxation	
6.10 Duplex system LBT	
6.11 Co-located device LBT	
6.12 Fair Access	41
APPENDIX1 MANUFACTURER DECLARATION	42

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 3 of 42 Sheets

#### 1 GENARAL INFORMATION

## 1.1 Testing Laboratory

Name: Electronic Testing Center, Taiwan

Address: No. 8, Lane 29, Wenming Rd., Leshan Tsuen, Guishan Shiang,

Taoyuan Country, 33383, Taiwan, R.O.C.

Telephone: 886-3-3280026 Fax: 886-3-3276188 NVLAP lab registration #: 200133-0

IC OATS registration #: IC 2949-1

E-Mail: <a href="mailto:hsieh@etc.org.tw">hsieh@etc.org.tw</a>

#### 1.2 Client Information

(1)

Name: CCT Marketing, Ltd.

Address: 18/F, CCT Telecom Building, 11 Wo Shing Street, Fo Tan,

Shatin, N.T., Hong Kong

(2)

Name: CCT Tech Advanced Products Limited

Address: 18/F, CCT Telecom Building, 11 Wo Shing Street, Fo Tan,

Shatin, N.T., Hong Kong

#### 1.3 Manufacturer

Name: Huiyang CCT Telecommunications Products Co. Ltd.

Address: CCT Technology Park, San He Economic Developmental Zone,

Huiyang District, Huizhou City, Guangdong Province, PRC

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 4 of 42 Sheets

#### **2 TEST INFORMATION**

## 2.1 Description of Tested Device(s)

The tested equipment is a DECT handset, which complies with ETSI EN 300175. The frequencies have been reprogrammed to comply with the FCC requirements to an Isochronous UPCS device after FCC Part 15D.

The EUT is an initiating device as described in ANSI C63.17 and is designed to operate together with a DECT base station, which is then the responding device.

Frequency Channel	Frequency	Test Frequency
CH4	1921.536 MHz	FL
СНЗ	1923.264 MHz	-
CH2	1924.992 MHz	Fм
CH1	1926.720 MHz	-
СНО	1928.448 MHz	Fн

#### 2.2 Test Environment

#### Normal test condition

Temperature:	20 - 25 °C
Relative humidty:	55 - 75%

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 5 of 42 Sheets

## **3 TEST REPORT SUMMARY**

# 3.1 Test Summary

Requirement	FCC Paragraph #	IC RSS-213 Paragraph #	Required	Customer Declaration	Test Pass
Monitoring time	15.323(c)(1)	4.3.4(b)(1)			$\boxtimes$
Monitoring threshold	15.323(c)(2)	4.3.4(b)(2)			
Maximum transmit period	15.323(c)(3)	4.3.4(b)(3)			$\boxtimes$
System acknowledgement	15.323(c)(4)	4.3.4(b)(4)			$\boxtimes$
Least Interfered Channel, LIC	15.323(c)(5)	4.3.4(b)(5)	$\boxtimes$		$\boxtimes$
Random waiting	15.323(c)(6)	4.3.4(b)(6)			
Monitoring bandwidth and reaction time	15.323(c)(7)	4.3.4(b)(7)	$\boxtimes$		$\boxtimes$
Monitoring antenna	15.323(c)(8)	4.3.4(b)(8)		$\boxtimes$	
Monitoring threshold relaxation	15.323(c)(9)	4.3.4(b)(9)	$\boxtimes$		$\boxtimes$
Duplex system LBT	15.323(c)(10)	4.3.4(b)(10)			
Co-located device LBT	15.323(c)(11)	4.3.4(b)(11)			
Fair access	15.323(c)(12)	4.3.4(b)(12)	$\boxtimes$		

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 6 of 42 Sheets

#### 3.2 Other Comments

All measurements are traceable to national standards.

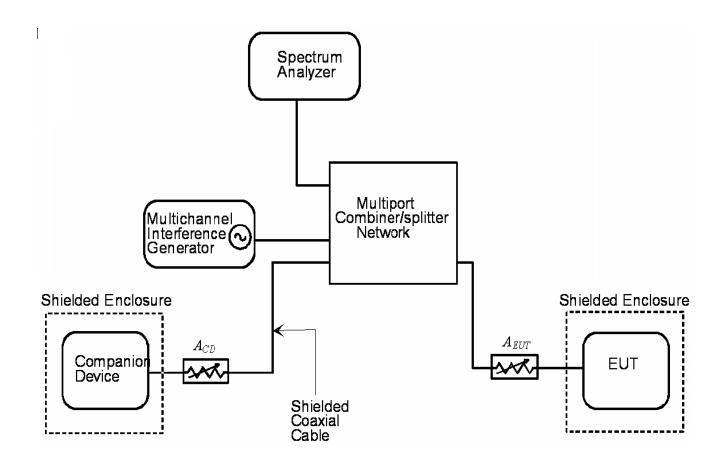
The tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC CFR47 Part 15, Paragraph 15.323 for Isochronous UPCS Devices.

The conducted test methods have been in accordance with ANSI C63.17-1998 and ANSI C63.17-2006 Draft where applicable.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 7 of 42 Sheets

### **4 TEST SETUP**

## **4.1 Monitoring Tests**



Test Set-Up 1

This test setup is used for all Monitoring and Time and Spectrum Access Procedure tests.

Companion Device	Acd (dB)	EUT	А <b>е</b> ит (dB)
Base	50	Handset	0
Handset	30	Base	0

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 8 of 42 Sheets

### **5 TEST EQUIPMENT LIST**

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment and ancillaries are identified (numbered) by the Test Laboratory.

Equipment	Manufacturer	Model No.	Next Calibration Date (MM/DD/YY)
RF Downconverter	National Instruments	PXI-5600 (S/N: E35372)	02/23/2012
RF Downconverter	National Instruments	PXI-5600 (S/N: E224BD)	02/23/2012
64 MS/s Digitizer	National Instruments	PXI-5620 (S/N: E34BOB)	02/23/2012
64 MS/s Digitizer	National Instruments	PXI-5620 (S/N: E22946)	02/23/2012
100 MS/s AWG OSP	National Instruments	PXI-5441 (S/N: E32987)	02/23/2012
8-Bit 250 MS/s Digitizer	National Instruments	PXI-5114 (S/N: E41FBC)	02/23/2012
8-Bit 250 MS/s Digitizer	National Instruments	PXI-5114 (S/N: E41FBE)	02/23/2012
RF Upconverter	National Instruments	PXI-5610 (S/N: E4370F)	02/23/2012

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 9 of 42 Sheets

#### **6 TEST RESULT**

## **6.1 Monitoring time**

### 6.1.1 Standard Applicable: FCC 15.323(c)(1), RSS-213\_4.3.4(b)(1)

Immediately prior to initiating transmission, devices must monitor the combined time and spectrum window in which they intend to transmit. For a period of at least 10 milliseconds for systems designed to use a 10 millisecond or shorter frame period or at least 20 milliseconds for systems designed to use a 20 millisecond frame period.

#### 6.1.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 7.3.4

#### 6.1.3 Results: Complies

EUT monitors the combined time and spectrum window prior to initiation of transmission.

#### **Measurement Data:**

This requirement is covered by results of Least Interfered Channel (LIC) test according to FCC 15.323(c) (5)	
--	--

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 10 of 42 Sheets

## **6.2 Monitoring threshold**

## 6.2.1 Standard Applicable: FCC 15.323(c)(2), RSS-213\_4.3.4(b)(2)

The monitoring threshold must not be more than 30 dB above the thermal noise power for a bandwidth equivalent to the emission bandwidth of the device.

#### 6.2.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 7.3.1

#### 6.2.3 Result: Not applicable

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 11 of 42 Sheets

## 6.3 Maximum transmit period

## 6.3.1 Standard Applicable: FCC 15.323(C)(3), RSS-213\_4.3.4(b)(3)

Occupation of the same combined time and spectrum windows by a device or group of cooperating devices continuously over a period of time longer than 8 hours is not permitted without repeating the access criteria.

#### 6.3.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 8.2.2

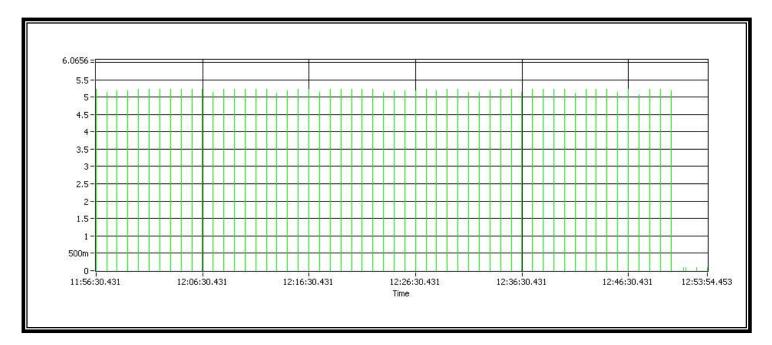
6.3.3 Test Results: Complies

#### **Measurement Data:**

	Observation	Limit
Maximum transmission time	0 hours 54 minutes	8 hours

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 12 of 42 Sheets

Start to transmission time and Cease of transmission time:



FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 13 of 42 Sheets

## 6.4 System Acknowledgement

## 6.4.1 Standard Applicable: FCC 15.323(c)(4), RSS-213\_4.3.4(b)(4)

Once access to specific combined time and spectrum windows is obtained an acknowledgement from a system participant must be received by the initiating transmitter within one second or transmission must cease. Periodic acknowledgements must be received at least every 30 seconds or transmission must cease. Channels used exclusively for control and signaling information may transmit continuously for 30 seconds without receiving an acknowledgement, at which time the access criteria must be repeated.

#### 6.4.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 8

6.4.3 Results: Complies

#### **Measurement Data**

Unacknowledged transmission:

Limit:

Requirement	Value
Change of access criteria for control information	30 s
Pause length	> 10 ms
Change of access channel	mandatory

#### Result:

Requirement	Time	Verdict
Change of access criteria for control information		n.a.
Pause length		n.a.
Change of access channel		n.a.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 14 of 42 Sheets

#### Connection acknowledgement:

#### Limit:

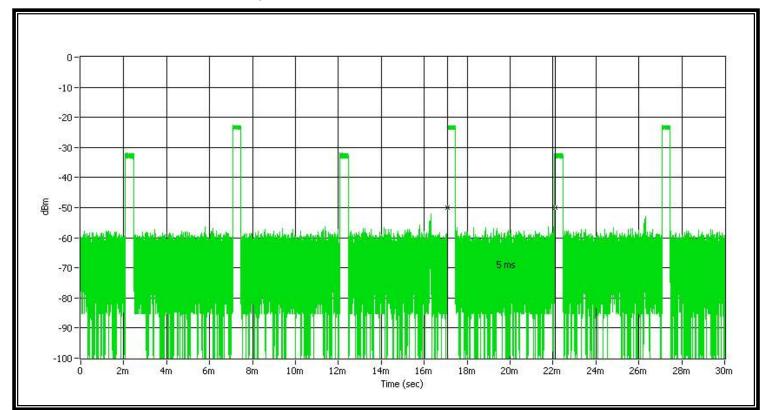
Requirement	Value
Connection acknowledgement	1 s
Termination of transmission	30 s

#### Result:

Requirement	Time observed	Verdict
Connection acknowledgement	5 ms	Pass
Termination of transmission	4.99 s	Pass

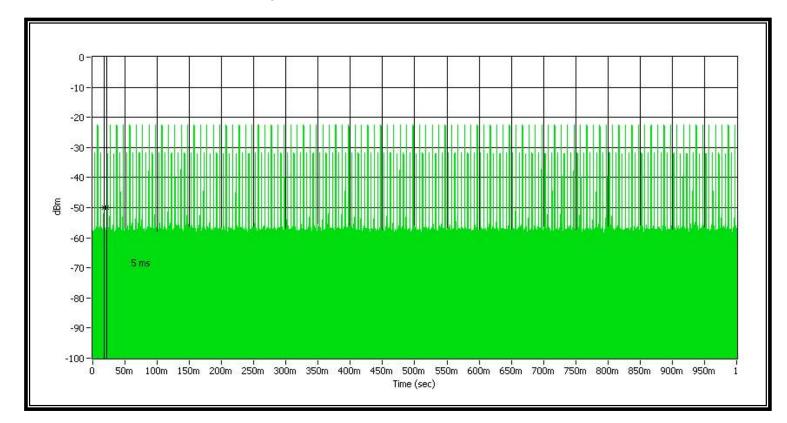
FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 15 of 42 Sheets

Comment: Connection acknowledgement



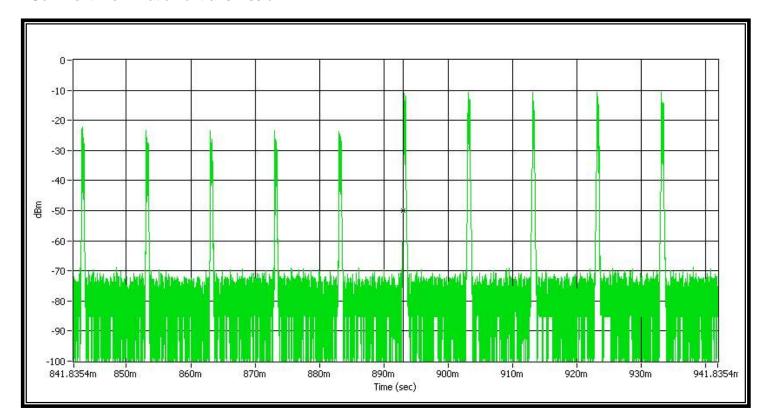
FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 16 of 42 Sheets

Comment: Connection acknowledgement



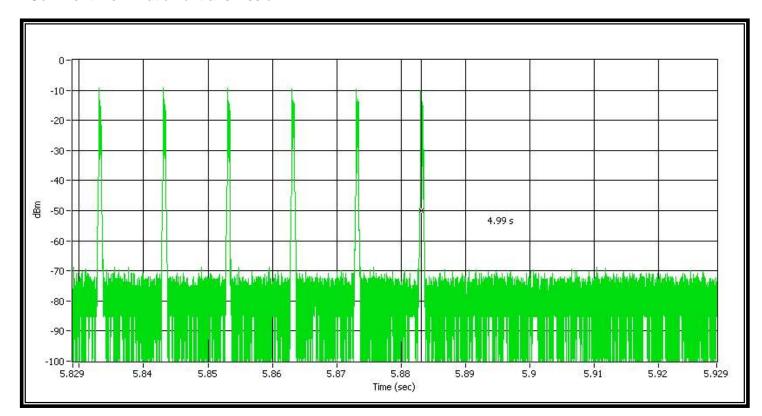
FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 17 of 42 Sheets

Comment: Termination of transmission



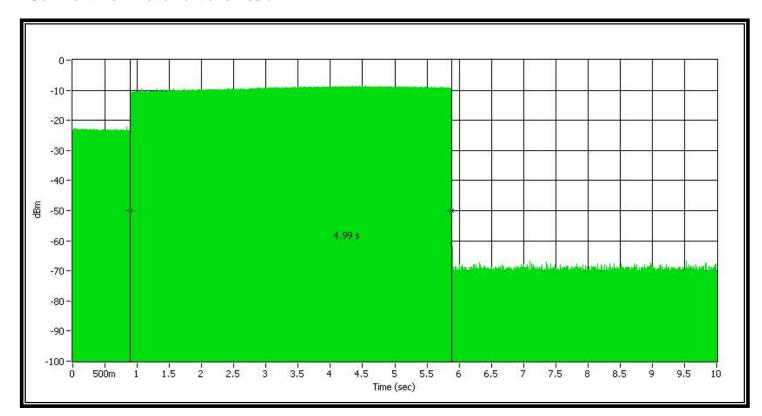
FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 18 of 42 Sheets

Comment: Termination of transmission



FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 19 of 42 Sheets

Comment: Termination of transmission



FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 20 of 42 Sheets

#### 6.5 Least Interfered Channel, LIC

#### 6.5.1 Standard Applicable: FCC 15.323(c)(5), RSS-213\_4.3.4(b)(5)

If a minimum of 40 duplex system access channels are defined, the system must have monitored all access channels defined for its system within the last 10 seconds and must verify, within the 20 milliseconds (40 milliseconds for devices designed to use a 20 milliseconds frame period) immediately preceding actual channel access that the detected power of the selected time and spectrum windows is no higher than the previously detected value. The power measurement resolution for this comparison must be accurate within 6 dB. No device or group of co-operating devices located within 1 meter of each other shall during any frame period occupy more than 6 MHz of aggregate band width, or alternatively, more than one third of the time and spectrum windows defined by the system.

#### 6.5.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 7.3.2, 7.3.3, 7.3.4

#### 6.5.3 Results: Complies

#### **Measurement Data**

Calculation of monitoring threshold limits:

Lower threshold:  $T_L = 15 \log 10B - 184 + 30 - P (dBm)$ Upper threshold:  $T_U = 15 \log 10B - 184 + 50 - P (dBm)$ 

> B = emission bandwidth (Hz) P = peak transmit power (dBm)

Calculated thresholds:

TL: Lower threshold (dBm)	-78.6
Tu: Upper threshold (dBm)	-58.6

Limit:

Used	Emission bandwidth (MHz)	1.44	
results	Peak transmit power (dBm)	16.98	
Limits	TLR <= TL+UM = -78.6 + 6 = -72.6 (dBm)		
Lillius	Tur <= Tu+Um = -58.6 + 6 = -52.6 (dBm)		

Result:

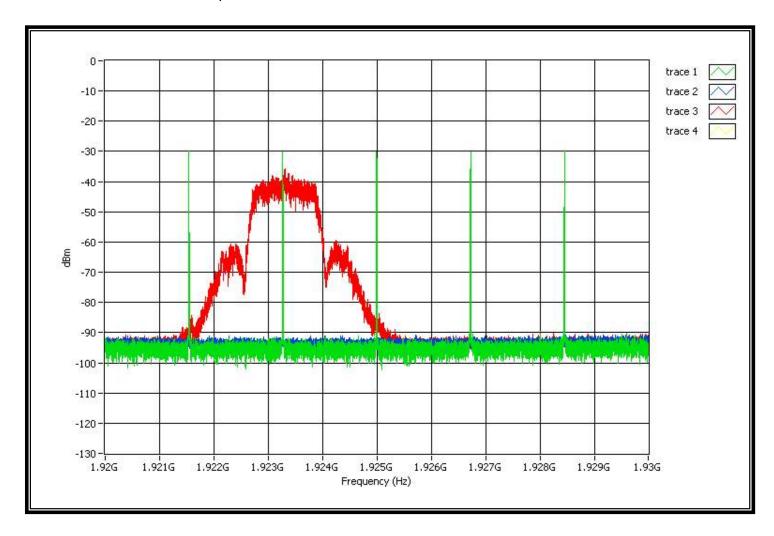
Least interfered channel	Pass
TLR: Lower threshold (dBm)	n.a.
Tur: Upper threshold (dBm)	-70.6

Note 1: The upper threshold is applicable for systems which have defined a minimum of 40 duplex system access channels.

Note 2: f1=1921.536 MHz, f2=1928.448 MHz

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 21 of 42 Sheets

Comment: 7.3.2, initial setup



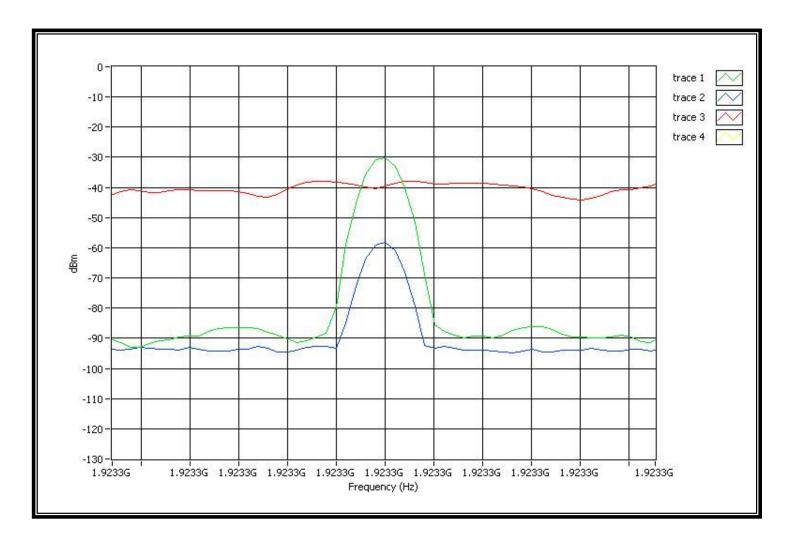
Note1: Trace1 (green) is the interference on all 5 carriers. The level is Tu+Um+10dB.

Note2: Trace2 (blue) is interference on all 5 carriers. The level is Tur.

Note3: Trace3 (Red) is the EUT begins to transmit the beacon when interference is Tur.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 22 of 42 Sheets

Note: 7.3.2 (zoom in)



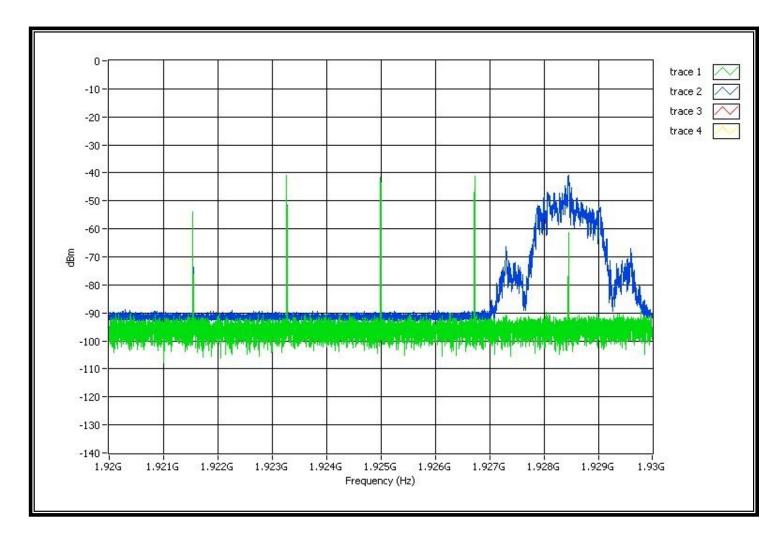
Note1: Trace1 (green) is the interference on all 5 carriers. The level is Tu+Um+10dB.

Note2: Trace2 (blue) is interference on all 5 carriers. The level is Tur.

Note3: Trace3 (Red) is the EUT begins to transmit the beacon when interference level is Tur.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 23 of 42 Sheets

Note: 7.3.3b



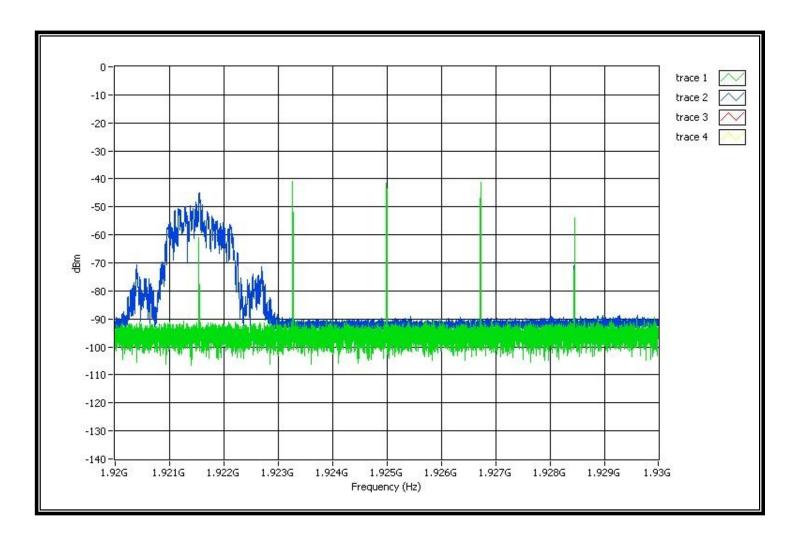
Note1: Trace1 (green) shows the interference profile.

Note2: Trace2 (blue) shows the EUT transmissions are occurring.

Note3: The EUT always transmits on f2 (the carrier with the lower interference level) and so meets the requirement.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 24 of 42 Sheets

Note: 7.3.3c



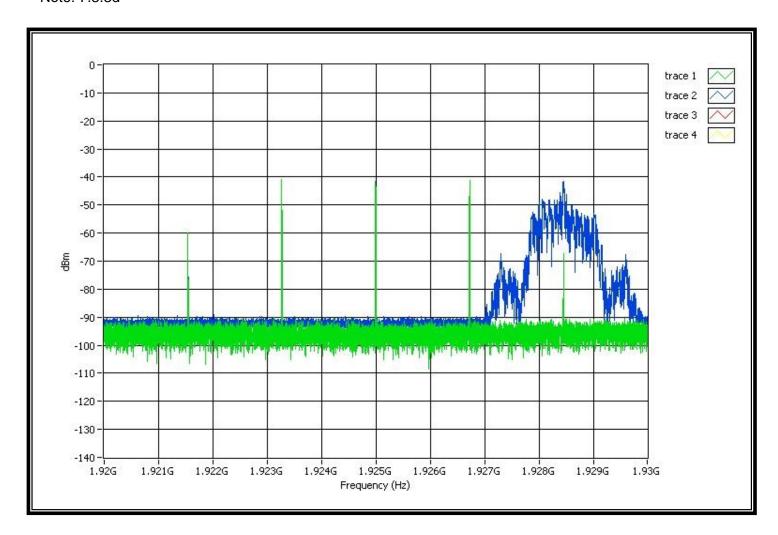
Note1: Trace1 (green) shows the interference profile.

Note2: Trace2 (blue) shows the EUT transmissions are occurring.

Note3: The EUT always transmits on f1 (the carrier with the lower interference level) and so meets the requirement.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 25 of 42 Sheets

Note: 7.3.3d



Note1: Trace1 (green) shows the interference profile.

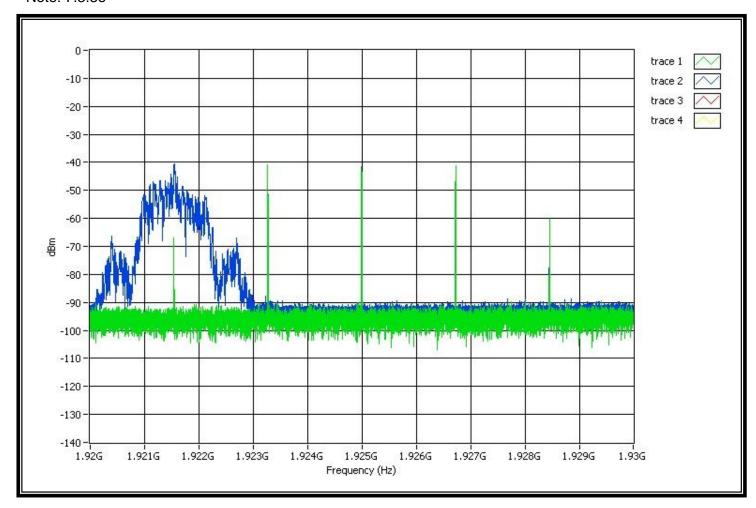
Note2: Trace2 (blue) shows the EUT transmissions are occurring.

Note3: The EUT always transmits on f2 (the carrier with the lower interference level) and so meets the

requirement.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 26 of 42 Sheets

Note: 7.3.3e



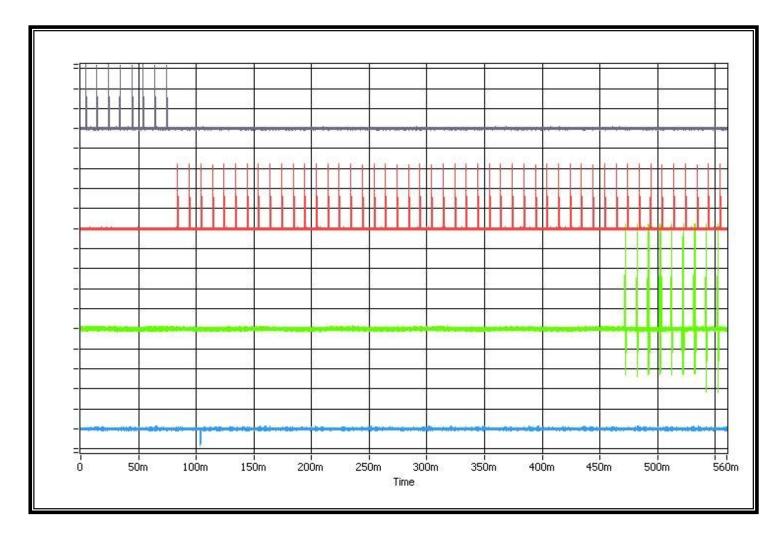
Note1: Trace1 (green) shows the interference profile.

Note2: Trace2 (blue) shows the EUT transmissions are occurring.

Note3: The EUT always transmits on f1 (the carrier with the lower interference level) and so meets the requirement.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 27 of 42 Sheets

Note: 7.3.4



Note1: Trace1 (deep blue, top) shows interference on f1.

Note2: Trace2 (red, 2nd from top) shows the interference on f2.

Note3: Trace3 (green, 3rd from top) shows EUT transmissions on f1.

Note4: Trace4 (light blue, 4th from top) shows the signal to the handset to trigger the transmissions.

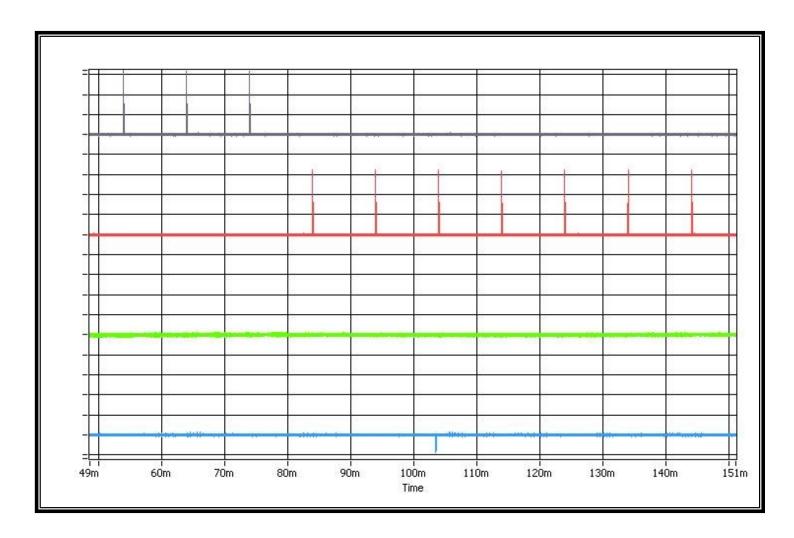
Note5: Set interference on all system carriers except f2, at a level of Tu+Um, in-band per carrier.

Note6: Apply interference on f2 at a level of Tu+Um, in-band, and immediately remove all interference from f1 and immediately (but not sooner than 20 ms after the interference on f2 is applied) cause the EUT to attempt transmission.

Note7: The EUT transmits on f1 and so meets the requirement.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 28 of 42 Sheets

Note: 7.3.4 (Zoom in)



Note1: Trace1 (deep blue, top) shows interference on f1.

Note2: Trace2 (red, 2nd from top) shows the interference on f2.

Note3: Trace3 (green, 3rd from top) shows EUT transmissions on f1.

Note4: Trace4 (light blue, 4th from top) shows the signal to the handset to trigger the transmissions.

The signal is not sooner than 20 ms after the interference on f2 is applied.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 29 of 42 Sheets

## 6.6 Random waiting

## 6.6.1 Standard Applicable: FCC 15.323(c)(6), RSS-213\_4.3.4(b)(6)

If the selected combined time and spectrum windows are unavailable, the device may either monitor and select different windows or seek to use the same window after waiting an amount of time, randomly chosen from a uniform random distribution between 10 and 150 milliseconds, commencing when the channel becomes available.

#### 6.6.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 8.1.3

#### 6.6.3 Results:

The manufacturer declares that this provision is not utilized by the EUT.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 30 of 42 Sheets

## 6.7 Monitoring bandwidth and reaction time

#### 6.7.1 Standard Applicable: FCC 15.323(c)(7), RSS-213\_4.3.4(b)(7)

The monitoring system band width must be equal to or greater than the emission band width of the intended transmission and have a maximum reaction time less than 50 x SQRT (1.25/emission band width in MHz) microseconds for signals at the applicable threshold level but shall not be required to be less than 50 microsecond. If a signal is detected that is 6 dB or more above the applicable threshold level, the maximum reaction time shall be 35 x SQRT (1.25/emission band width in MHz) microseconds but shall not be required to be less than 35 microseconds.

#### 6.7.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 7.5

#### 6.7.3 Results: Meets the requirement

#### **Measurement Data**

Calculation of applied pulse eidth and maximum reaction time:

For emission bandwidth > 1.25MHz, the pulse width is always 35us and 50us.

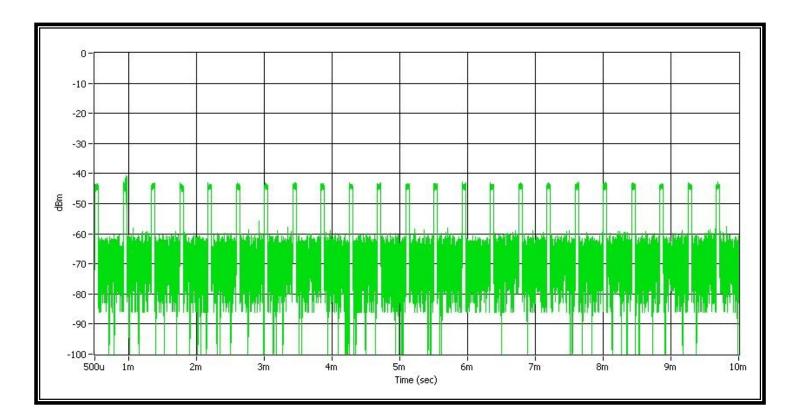
Used results	Emission bandwidth B (MHz)	1.44 MHz
Maximum reaction time and pulse width	50√1.25/B (μs)	46.6 µs
	35√1.25/B (µs)	32.6 µs

#### Result:

Pulse width	Connection
50 μs or 50√1.25/B μs	no
35 µs or 35√1.25/B µs	no

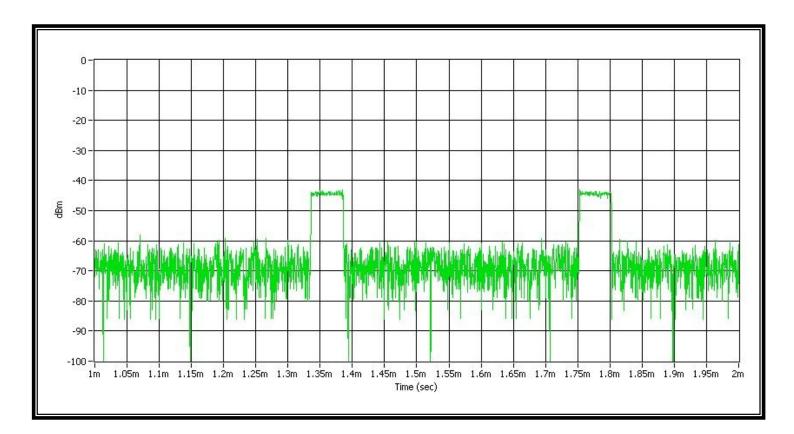
FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 31 of 42 Sheets

Note: 50us



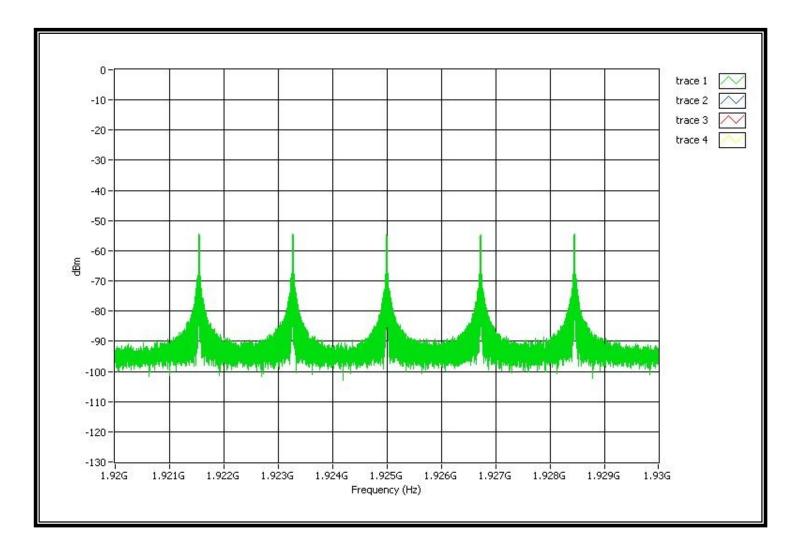
FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 32 of 42 Sheets

Note: 50us (Zoom in)



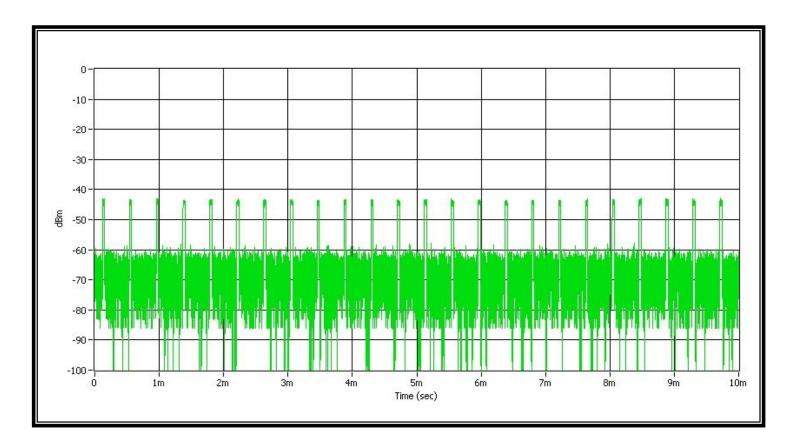
FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 33 of 42 Sheets

Note: 50us (5 carriers)



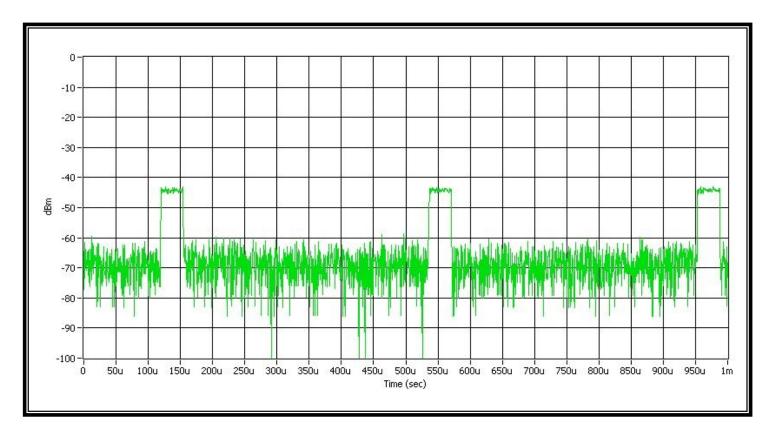
FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 34 of 42 Sheets

Note: 35us



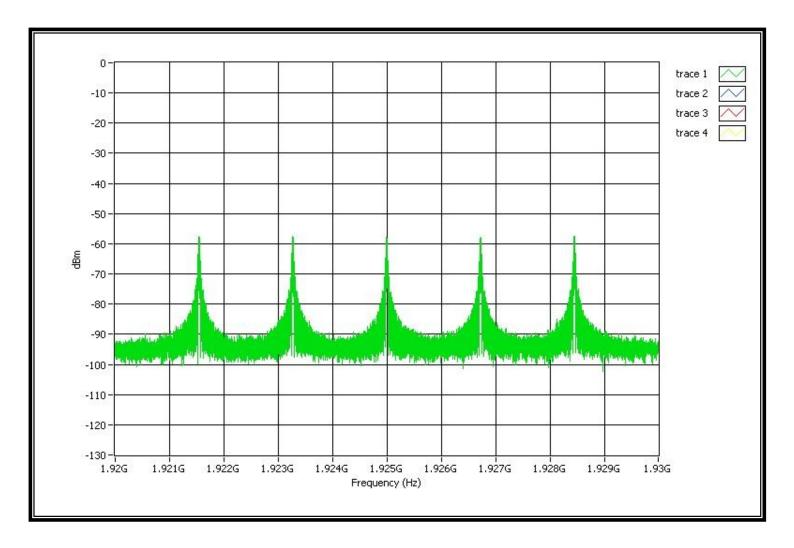
FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 35 of 42 Sheets

Note: 35us (Zoom in)



FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 36 of 42 Sheets

Note: 35us (5 carriers)



FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 37 of 42 Sheets

## 6.8 Monitoring antenna

#### 6.8.1 Standard Applicable: FCC 15.323(c)(8), RSS-213\_4.3.4(b)(8)

The monitoring system shall use the same antenna used for transmission, or an antenna that yields equivalent reception at that location.

#### 6.8.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 4

#### 6.8.3 Results: Complies

The EUT uses the same antennas for transmission and reception as for monitoring.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 38 of 42 Sheets

# 6.9 Monitoring threshold relaxation

## 6.9.1 Standard Applicable: FCC 15.323(c)(9), RSS-213\_4.3.4(b)(9)

Devices that have a power output lower than the maximum permitted under the rules can increase their monitoring detection threshold by one decibel for each one decibel that the transmitter power is below the maximum permitted.

#### 6.9.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 4

#### 6.9.3 Results: Complies

#### **Measurement Data:**

This requirement is covered by results of Least Interfered Channel (LIC) test according to FCC 15.323(c) (5)

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 39 of 42 Sheets

## 6.10 Duplex system LBT

### 6.10.1 Standard Applicable: FCC 15.323(c)(10), RSS-213\_4.3.4(b)(10)

An initiating device may attempt to establish a duplex connection by monitoring both its intended transmit and receive time and spectrum windows. If both the intended transmit and receive time and spectrum windows meet the access criteria, then the initiating device can initiate a transmission in the intended transmit time and spectrum window. If the power detected by the responding device can be decoded as a duplex connection signal from the initiating device, then the responding device may immediately begin transmitting on the receive time and spectrum window monitored by the initiating device.

#### 6.10.2 Measurement procedure

Measurement method according to ANSI C63.17, clause 8.3 This test is required for equipment that uses the access criteria in FCC 15.323(c)(10).

#### 6.10.3 Test Results:

The manufacturer declares that this provision is not utilized by the EUT.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 40 of 42 Sheets

#### 6.11 Co-located device LBT

### 6.11.1 Standard Applicable: FCC 15.323(c)(11), RSS-213\_4.3.4(b)(11)

An initiating device that is prevented from monitoring during its intended transmit window due to monitoring system blocking from the transmissions of a co-located (within one meter) transmitter of the same system, may monitor the portions of the time and spectrum windows in which they intend to receive over a period of at least 10 milliseconds. The monitored time and spectrum window must total at least 50 percent of the 10 millisecond frame interval and the monitored spectrum must be within 1.25 MHz of the center frequency of channel(s) already occupied by that device or co-located co-operating device. If the access criteria is met for the intended receive time and spectrum window under the above conditions, then transmission in the intended transmit window by the initiating device may commence.

#### 6.11.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 8.4

#### 6.11.3 Results:

The manufacturer declares that this provision is not utilized by the EUT.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 IC ID: 1945A-31591 Sheet 41 of 42 Sheets

#### 6.12 Fair Access

#### 6.12.1 Standard Applicable: FCC 15.323(c)(12), RSS-213\_4.3.4(b)(12)

The provisions of (c) (10) or (c) (11) shall not be used to extend the range of spectrum occupied over space or time for the purpose of denying fair access to spectrum for other devices.

#### 6.12.2 Results:

The manufacturer declares that EUT does not work in a mode which denies fair access to spectrum for other devices.

FCC ID: XYT31599 ETC Report No.: 11-06-MAS-051-01 Sheet 42 of 42 Sheets IC ID: 1945A-31591

# **Appendix1 Manufacturer Declaration**



#### FCC Part 15D - APPLICATION FORM & SELF-DECLARATION

Applicant Name :	CCT Marketing, Ltd		
Address :	18/F, CCT Telecom Building, 11 Wo Shing Street, Fo Tan, Shatin, N.T., Hong Kong		
Contact person:	Brian Lai		
E-mail address:	brianlai@cct.com.hk		
Phone No. :	(86)755-3667 7138	Fax No.:	(86)755-3667 7100
Manufacturer Name:	Huiyang CCT Telecommunications Products Co. Ltd.		
Address:	CCT Technology Park, San He Economic Developmental Zone, Huiyang District, Huizhou City, Guangdong Province, PRC		

	PP	FP
Model name :	31599	31591
FCC ID:	XYT31599	XYT31591

		Remarks
Does a system built with the EUT that implement the provisions of 47CFR 15.323(c)(5) enabling the use of the upper threshold for deferral?	⊠ Yes	
According to 47CFR15.323(c)(5).4, does your model <b>not</b> use bandwidth in further cooperation with other devices at any range?	☑ Yes	
Does a system built using the EUT that operate under the provisions of 47CFR 15.323(c)(6) incorporating provisions for waiting for a channel to go clear?	☐ Yes ☐ No	
According to 47CFR15.323(c)(8), does EUT use the same antennas for transmission and reception as for monitoring?		
Does a system built with the EUT that operate under the provisions of 47CFR 15.323(c)(10) to test for deferral only in conjunction with a companion device?		
Does a system built using the EUT that operate under the provisions of 47CFR 15.323(c)(11) enabling the access criteria check on the receive channel while in the presence of collocated interferers?		
According to 47CFR15.323(c)(12), does EUT <b>not</b> work in a mode with denies fair access to spectrum for other devices.	⊠ Yes □ No	
Signed by: Brian Lai Signature:	12	Sain
Date: July 5,2011		