# FCC Part 15 Subpart D Test Report

## of

E.U.T. : DECT 6.0 Cordless Handset

Speakerphone Answering

System (Handset PP)

MODEL : 27907XXX-A

(XXX represents any number or letter for marketing purposes)

FCC ID. : G9H2-7907AH

for

APPLICANT: Thomson Inc.

ADDRESS : 10330 North Meridian Street Indianapolis, IN

46290

Test Performed by

## **ELECTRONICS TESTING CENTER, TAIWAN**

NO. 34. LIN 5. DINGFU TSUEN, LINKOU SHIANG TAIPEI COUNTY, TAIWAN, 24442, R.O.C.

TEL: (02)26023052 FAX: (02)26010910

http://www.etc.org.tw;e-mail:r00@etc.org.tw

 $Report\ Number: 07\text{-}01\text{-}RBF\text{-}084\text{-}02$ 

## TEST REPORT CERTIFICATION

Applicant : Thomson Inc.

10330 North Meridian Street Indianapolis, IN 46290

Manufacturer : Huiyang CCT Telecommunications Products Co., Ltd.

CCT Technology Park, San He Economic Developmental Zone, Huiyang District, Huizhou City, Guangdong Province, PRC

Description of EUT

a) Type of EUT : DECT 6.0 Cordless Handset Speakerphone Answering System

(Handset PP)

b) Trade Name : GE

c) Model No. : 27907XXX-A

(XXX represents any number or letter for marketing purposes)

d) Power Supply : Battery for Handset: DC 3.6V/550mAh

e) Frequency Range: 1921.536~1928.448MHz

Regulation Applied : FCC Rules and Regulations Part 15 Subpart D (2006)

I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures given in ANSI C63.17-2006/ ANSI C63.4-2003, and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note: 1. The result of the testing report relate only to the item tested.

2. The testing report shall not be reproduced expect in full, without the written approval of ETC.

Issued Date : Mar. 28, 2007

Test Engineer:

(Paicon Sin

Approve & Authorized Signer:

Will Yauo, Manager EMC Dept. II of ELECTRONICS TESTING CENTER, TAIWAN

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#### 1 GENERAL INFORMATION

## 1.1 Testing Laboratory

Name : Electronics Testing Center, Taiwan

Address : No. 34, Lin 5, Dingfu Tsuen, Linkou Shiang, Taipei County,

Taiwan, 24442, R.O.C.

Telephone : 886-2-26023052

Fax : 886-2-26010910

NVLAP lab registration# : 200133-0

IC OATS registration# : 2949A-1

#### 1.2 Client Information

Name : Thomson Inc.

Address : 10330 North Meridian Street Indianapolis, IN 46290

Telephone : 317-587-3095

Contact person : Roger Hunt

#### 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** 

#### **2 TEST INFORMATION**

## 2.1 Descriptino of Tested Device(s)

The tested equipment is a DECT base station 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 a responding device as described in ANSI C63.17 and is designed to operate togerter with a DECT handset, which is then the initiating device.

Frequency Channel	Frequency	Test Frequency
CH4	1928.448 MHz	$F_{L}$
СН3	1926.720 MHz	-
СН2	1924.992 MHz	-
СН1	1923.264 MHz	-
СН0	1921.536 MHz	$F_{H}$

#### 2.2 Test Environment

#### Normal test condition

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

#### **Extreme test condition (declared by manufacture)**

Please see the manufacturer declaration form.

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## **3 TEST REPORT SUMMARY**

## 3.1 Test Summary

Requirement	FCC Paragraph #	Required	Customer Declaration	Test Pass
Coordination with fixed microwave	15.307(b)			
Cross Reference	15.309(b)			
Labeling requirements	15.311 , 15.19(a)(3)			
Power line Conducted Emission	15.315 , 15.207			
Antenna Requirement	15.315, 15.203			
Digital Modulation Techniques	15.319(b)			
Peak transmit Power	15.319(c)			
Power spectral Density	15.319(d)			
Antenna gain	15.319(e)			
Automatic discontinuation of transmission	15.319(f)			
Safety exposure levels	15.319(i)			
Emission Bandwidth	15.323(a)			
Emissions inside and outside the subband	15.323(d)			
Frame period and jitter	15.323(e)			
Carrier frequency stability	15.323(f)			

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## 3.2 Devices for Tested System

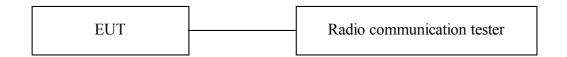
All measurements are traceable to national standards.

The tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC CFR47 Part 15, Paragraph 15.232 for Isochronous UPCS Devices and Industry Canada RSS-213 Issue 2.

The conducted test methods have been in accordance with ANSI C63.17-2006 Draft where applicable. Radiated tests were conducted is accordance with ANSI C63.4-2003.

#### **4 TEST SETUP**

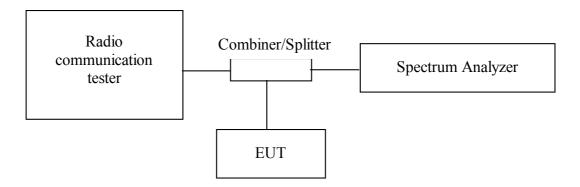
## 4.1 Frequency and Timing Measurements



#### **Test Set-up 1**

This setup is used for measuring Frame stability, Jitter, Carrier frequency stability at normal and extremet temperatures.

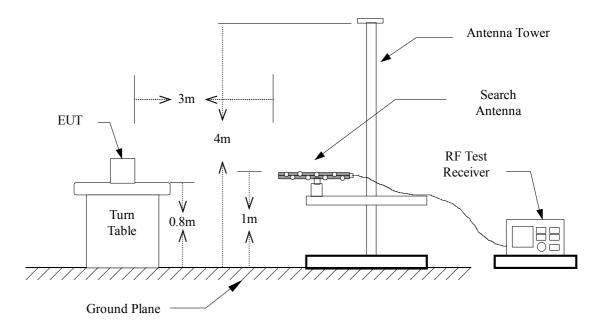
## **4.2 Conducted Emission Tests**



#### Test Set-up 2

This setup is used for all conducted emission tests.

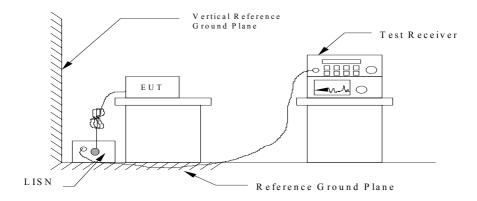
#### 4.3 Radiated Emission Tests



#### Test Set-up 3

This test setup is used for all radiated emissions tests. For frequencies below 30 MHz the measuring distance is 10 m, for all toher frequencies it is 3m. Emissions above 1 GHz were measured with the Spectrum Analyzer, Horn Antenna and the preamplifier after the antenna.

#### 4.4 Power Line Conducted Tests



Test Set-up 4

## **5 TEST EQUIPMENT LIST**

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

Equipment	Manufacturer	Model No.	Next Cal. Due
Test Receiver Rohde & Schwarz		ESCS 30	2007/12/22
Amplifier	HP	8447D	2007/10/08
Bi-Log Antenna	Schaffner	CBL 6111C(1318)	2007/12/21
Log-periodic Antenna	EMCO	3146(1851)	2007/10/12
Biconical Antenna	EMCO	3110(1664)	2007/06/21
EMI Test Receiver	Rohde & Schwarz	ESCI	2007/12/24
Spectrum	R&S	FSP3	2007/11/21
Signal generator	HP	8656B	2007/11/20
Double Ridged Antenna	EMCO	3115	2007/04/26
Amplifier	HP	8449B	2007/10/08
Amplifier	HP	83051A	2007/05/05
Spectrum	R&S	FSP40	2007/08/07
CTS60 DIGITAL RADIO TEST	R&S	CTS60	2007/10/03
Line Impedance Stabilization network	EMCO	3825/2	2007/10/08
Line Impedance Stabilization network	Rohde & Schwarz	ESH2-Z5	2007/09/12
Monitor	IBM	E54	N.C.R.
Printer	HP	LaserJet 1000	N.C.R.
Shielded Room	Riken		N.C.R.
Computer	Acer	Veriton	N.C.R.

#### **6 TEST RESULT**

#### 6.1 Corrdination with fixed microwave

#### 6.1.1 Standard Applicable: FCC 15.307 (b)

Each application for certification of equipment operating under the provisions of this Subpart munst be accompanied by an affidavit from UTAM, Inc. certifying that the applicant is a participating member of UTAM, Inc. In the event a grantee fails to fulfill the obligations attendant to participation in UTAM, Inc., the Commissin may invoke administrative sanctions as necessary to preclude continued marketing and installation of devices coveed by the grant of certification, including but not limited to revoking certification.

#### Result

The affidavit from UTAM, Inc. is included in the documentation supplied by the
applicant:
■ Yes
$\bigcap$ No

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#### **6.2 Cross Reference**

#### **6.2.1 Standard Applicable**

#### 15.309(b)

The requirements of Subpart D apply only to the radio transmitter contained in the PCS device. Other aspecgts of the operation of a PCS device may be subject to requirements contained else where in this Chapter. In particular, a PCS device that includes digital circuitry not direct associated with the radio transmitter also is subject to the requirements for unintentional radiators in Subpart B.

#### 15.109(a)

For unintentional device, according to FCC §15.109(a), the field strength of radiated emissions from unintentional except for class A digital device radiators at a distance of 3 meters shall not exceed the following values:

Frequency MHz	Distance Meters	Radiated μV/m	Radiated dB μ V/m
30 - 88	3	100	40.0
88 - 216	3	150	43.5
216 - 960	3	200	46.0
Above 960	3	500	54.0

#### **6.2.2 Test Results**

This requirement is not applicable because test sample do not included digital circuitry which is not direct associated with the radio transmitter	
For test results according to FCC 15 subpart B, see the EMC report as attached	
For test results according to FCC 15 subpart B, see the measurement data as follow	
This requirement is covered b results of power line conducted emission test according to FCC 15.315	

## **6.3 Labeling Requirements**

#### 6.3.1 Standard Applicable: FCC 15.19

The FCC Identifier shall be displayed on the label, and the device(s) shall bear the following statement in a conspicuous location on the device or in the user manual if the device is too small:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this deivce may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause underired operation.

The label itself shall be of a permanent type, not a paper label, and shall last the lifetime of the equipments.

#### 6.3.2 Result

See separate documents showing the label design and the placement of the label on the EUT.

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#### **6.4 Power Line Conducted Emissions**

#### **6.4.1 Description**

This EUT is excused from investigation of conducted emission, for it is powered by DC 12V battery only. According to §15.207 (d), measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

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## **6.5** Antenna Requirement

6.5.1 Standard Applicable: FCC 15.317, 15.203	
Does the EUT have detachable antenna?  ☐ Yes  ■ No	
If detachable, is the antenna connector non-standard?  ☐ Yes ☐ No	
The tested equipment has only integral antennas. The conducted tests were perfor on a sample with a temporary antenna connects.	med

## 6.6 digital Modulation Techniques

## 6.6.1 Standard Applicable: FCC 15.319(b)

All transmissions must use only digital modulation techniques.

## **6.6.2** Result: Meets the requirement

Please see the declaration provided by applicant

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## **6.7 Peak Power Output**

#### 6.7.1 Standard Applicable: FCC 15.319(c)(f)

Peak transmit power shall not exceed 100 microwatts multiplie by the square root of the emission bandwidth in Hz.

The peak transmit power shall be reduced by the amount in decibels that the maximum directional gain of the antenna exceeds 3 dBi.

#### **6.7.2** Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 6.1.2

#### **6.7.3 Test Results: Complies**

#### **Measurement Data:**

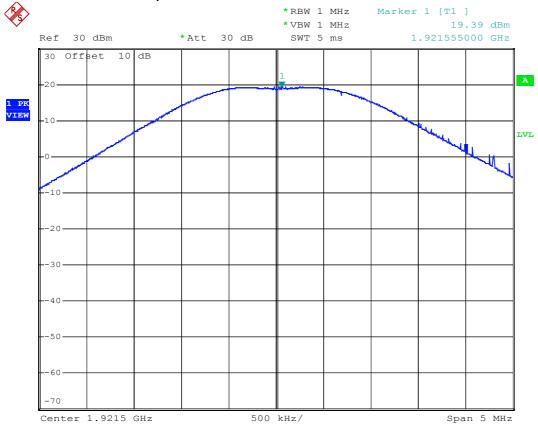
Channel	Frequency (MHz)	Maximum Peak Output Power (dBm)	Maximum Peak Output Power (mw)	FCC Limit (dBm)
$\mathrm{F_{L}}$	1921.540	19.39	86.896	20.76
$F_{H}$	1928.465	19.33	85.704	20.86

#### Limit:

Peak Transmit Power =  $100 \text{ uW x } \sqrt{\text{BW}}$ 

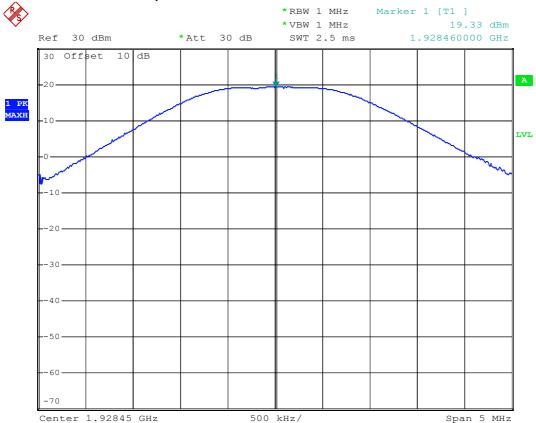
BW = Emission Bandwidth in Hz.

## Maximum Peak Output Power: CH FL



Date: 28.MAR.2007 19:41:08

## Maximum Peak Output Power: CH F<sub>H</sub>



Date: 26.MAR.2007 17:55:36

## **6.8 Power Spectral Density**

#### 6.8.1 Standard Applicable: FCC 15.319(d)

Power spectral density shall not exceed 3 milliwatts in any 3 kHz bandwidth as measured with a spectrum analyzer having a resolution bandwidth of 3 kHz.

#### **6.8.2** Measurement procedure

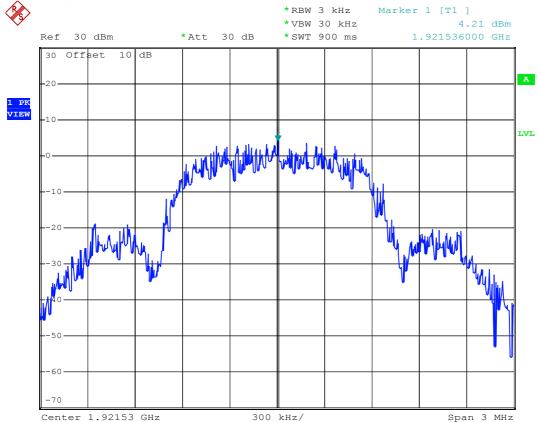
Measurement method according to ANSI C63.17 2006 paragraph 6.1.5

## **6.8.3 Test Results: Complies**

#### **Measurement Data:**

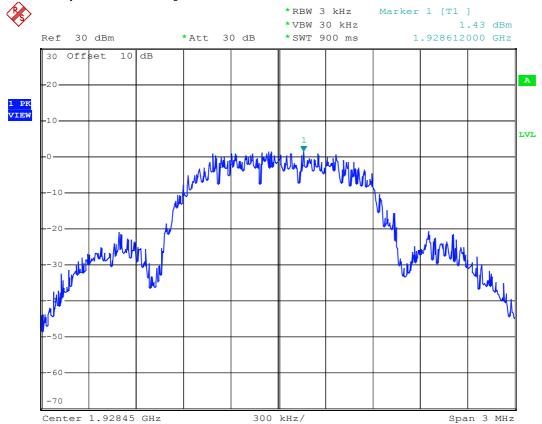
Channel	Frequency (MHz)	Power spectral Density (dBm)	FCC Limit (dBm)
$F_{L}$	1921.536	4.21	4.77
$F_{\mathrm{H}}$	1928.612	1.43	4.77





Date: 27.MAR.2007 15:02:59

## Power Spectral Density: CH F<sub>H</sub>



Date: 26.MAR.2007 17:59:22

#### 6.9 Antenna Gain

#### 6.9.1 Standard Applicable: FCC 15.323(e)

The peak transmit power shall be reduced by the amount in decibels that the mzximum directional gain of the antenna exceeds 3 dBi.

#### 6.9.2 Results: Meets the requirement

The antenna gain value provided by manufacturer is 0 dBi.

#### 6.10 Automatic discontinuation of transmission

#### 6.10.1 Standard Applicable: FCC 15.319(f)

The device shall automatically discontinue transmissionin case of either absence of information to transmit or opwerational failure. These provisions are not intended to preclude transmission of control and signaling information or use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

#### 6.10.2 Procedure

Please se the declaration provided by applicant.

#### 6.10.3 Results: Meets the requirement

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## 6.11 Safety exposure levels

#### 6.11.1 Standard Applicable: FCC 15.319(i)

UPCS devices are subject to the radio frequency radiation exposure requirements specified in FCC parts 1.1307 (b), 2.1091 and 2.1093, as appropriate. All equipment shall be considered to operate in a "general population / uncontrolled environment. For portable devices tests according to IEEE 1528 are requested, applicable.

#### **6.11.2** Measurement procedure

Consideration of radio frequency radiation exposure for EUT is done as

SAR test according IEEE 1528 (for PP)	
MPE calculation as below (for FP, Repeater)	

SAR test results: See SAR test report.

6.11.3 Results: Complies

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## 6.12 Emission Bandwidth B

#### 6.12.1 Standard Applicable: FCC 15.323(a)

The 26 dB Bandwidth B shall be larger than 50 kHz and less than 2.5 MHz.

#### **6.12.2** Measurement procedure

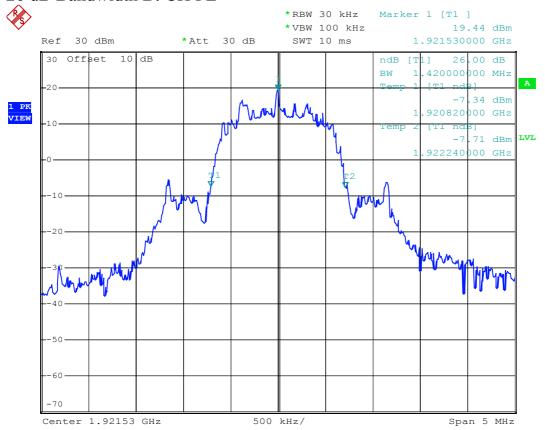
Measurement method according to ANSI C63.17 2006 paragraph 6.1.3

## **6.12.3 Test Results: Complies**

#### **Measurement Data:**

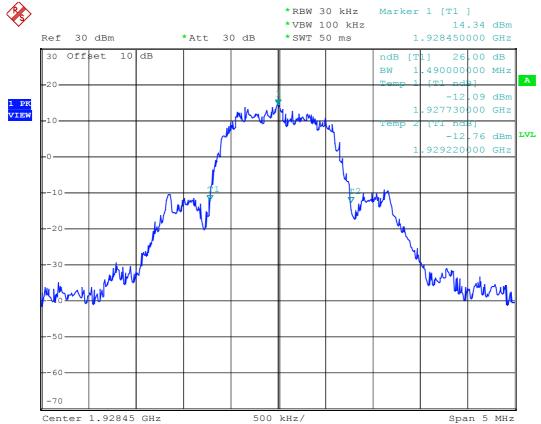
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
$F_{ m L}$	1921.530	1.42
$F_{\mathrm{H}}$	1928.450	1.49

## 26 dB Bandwidth B: CH FL



Date: 27.MAR.2007 14:55:53

## 26 dB Bandwidth B: CH F<sub>H</sub>



Date: 26.MAR.2007 17:53:55

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#### 6.13 Emissions inside and outside the subband

### 6.13.1 Standard Applicable: FCC 15.323(d)

#### **Emissions inside the subband**

 $B < f \le 2B$ : less than or equal to 30dB below max. permitted peak power level  $2B < f \le 3B$ : less than or equal to 50 dB below max. permitted peak power level  $3B < f \le UPCs$  Band Edge: less than or equal to 60 dB below max. permitted peak power level

#### Emissions outside the subband

 $f \le 1.25 MHz$  outside UPCS band:  $\le -9.5 dBm$   $1.25 MHz \le f \le 2.5 MHz$  outside UPCS band:  $\le -29.5 dBm$ 

 $f \ge 2.5$ MHz outside UPCS band: The EUT shall pass the test either a) or

b) as follow:

a) In the region at 2.5 MHz or greater below and above the lower and upper band edges respectively, the measured emission level shall not exceed –39.5 dBm	
b) In the region at 2.5MHz or greater below and above the lower and upper band edges respectively, the measured emission level shall not exceed the limits of 47CFR15.209. Measurement shall be made as a radiated test.	

#### 6.13.2 Measurement procedure

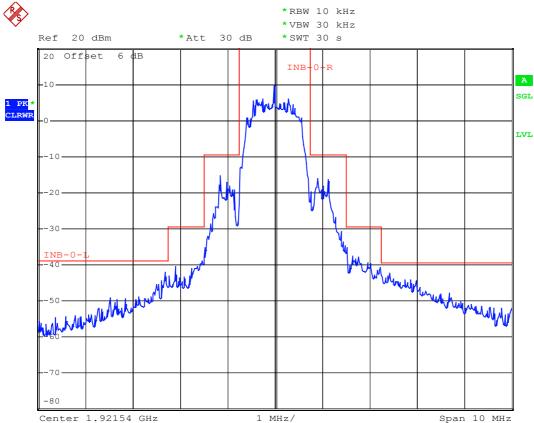
Measurement method according to ANSI C63.17 2006 paragraph 6.1.6

6.13.3 Results: Complies

**Measurement Data:** 

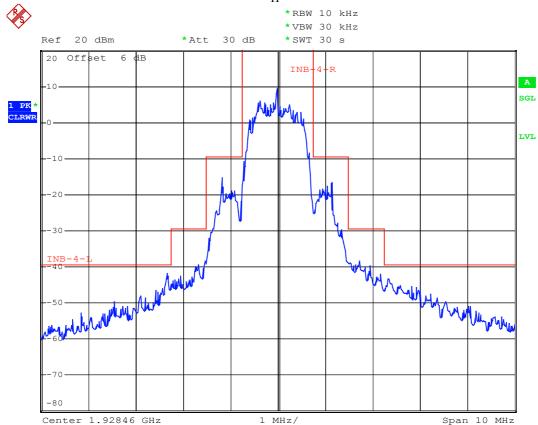
See plots.

## In-band Unwanted Emission: CH F<sub>L</sub>



Date: 27.MAR.2007 14:53:08

## In-band Unwanted Emission: CH F<sub>H</sub>



Date: 27.MAR.2007 14:46:50

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## Out-of -band Unwanted Emission:

## Out-of -band Unwanted Emission (below 1GHz)

a)

Operation Mode : <u>Handset On Line</u>

Test Da	ite :	Mar. 27, 20	<u>007</u> Te	emperature	: <u>19</u> °C	. Hu	midity :	54 %
Frequency	Ant-Pol	Meter	Corrected	Result	Limit	Margin	Table	Ant.
		Reading	Factor	@3m	@3m		Degree	High
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(Deg.)	(m)
93.180	V	38.6	-14.0	24.6	43.5	-18.9	76	1.0
120.180	V	34.1	-10.8	23.3	43.5	-20.2	29	1.0
143.940	V	36.9	-10.5	26.4	43.5	-17.1	99	1.0
191.730	V	37.5	-8.2	29.3	43.5	-14.2	172	1.2
234.930	V	35.6	-4.8	30.8	46.0	-15.2	126	1.6
344 100	V	42.6	-96	33.0	46.0	-13 0	154	1.5

#### *Note*:

- 1. Remark "---" means that the emissions level is too low to be measured.
- 2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

## a) CH F<sub>L</sub>

## Out-of -band Unwanted Emission (above 1GHz): CH F<sub>L</sub>

Operation Mode : <u>Transmitting</u>

Fundamental Frequency: <u>1921.536MHz</u>

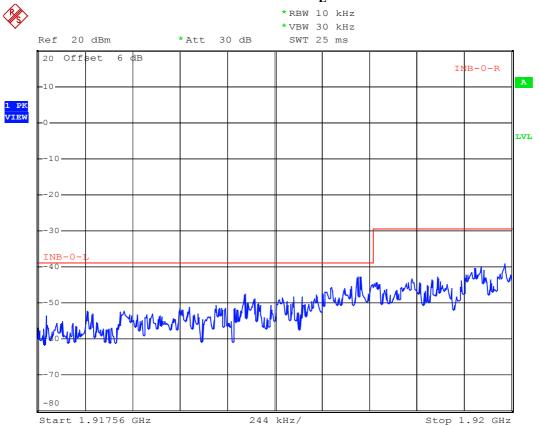
Test Date : Mar. 27, 2007 Temperature : 20 °C Humidity : 62 %

Frequency	F	Reading	(dBuV	)	Factor	Result	@3m	Limit	@3m	Margin	Table	Ant.
	I	H	7	I	(dB)	(dBu	V/m)	(dBu	V/m)		Deg.	High
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave	(dB)	(Deg.)	(m)
3482.310	58.9	35.6	53.6	1	-2.6	56.3	33.0	74.0	54.0	-17.7	167	1.6
5763.490	56.3	32.1	53.0	32.6	0.7	57.0	33.3	74.0	54.0	-17.0	183	1.2
7686.520	69.2	32.7	66.8	32.5	3.3	72.5	36.0	74.0	54.0	-1.5	152	1.4
9605.910	57.7	32.5	55.9	32.6	4.1	61.8	36.7	74.0	54.0	-12.2	147	1.8
11526.990	55.3	32.5	53.8	32.6	7.2	62.5	39.8	74.0	54.0	-11.5	155	1.5

#### *Note*:

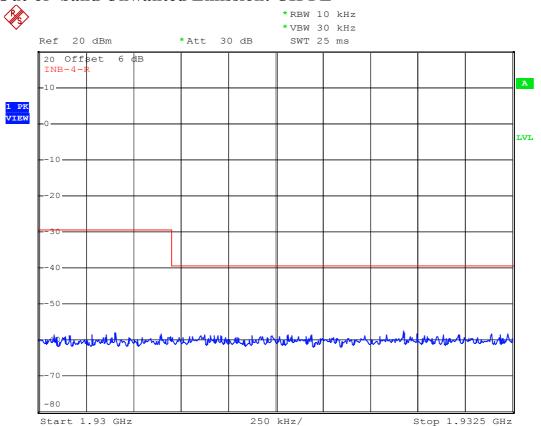
- 1. Item of margin shown in above table refer to average limit.
- 2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "\*\*\*" means that Peak result is meet average limit.
- 3. Remark "---" means that the emissions level is too low to be measured.
- 4. Item "Margin" referred to Average limit while there is only peak result.
- 5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

## Out-of -band Unwanted Emission: CH $F_L$



Date: 27.MAR.2007 14:53:59

## Out-of -band Unwanted Emission: CH FL



Date: 27.MAR.2007 14:54:40

### b) CH F<sub>H</sub>

## Out-of -band Unwanted Emission (above 1GHz): CH F<sub>H</sub>

Operation Mode : Transmitting

Fundamental Frequency: <u>1928.448MHz</u>

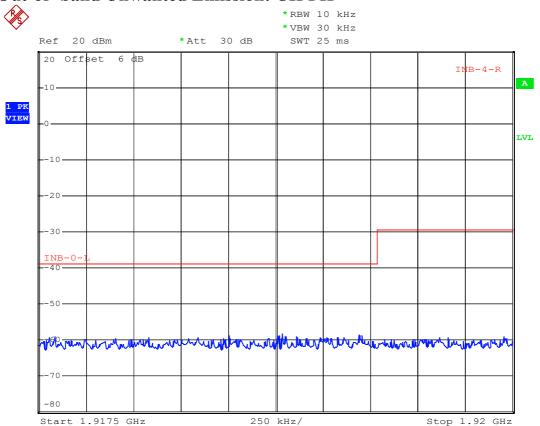
Test Date : Mar. 27, 2007 Temperature : 20 °C Humidity : 62 %

Frequency	F	Reading	(dBuV	)	Factor	Result	(@3m	Limit	@3m	Margin	Table	Ant.
	I	H	1	I	(dB)	(dBu	V/m)	(dBu	V/m)		Deg.	High
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave	(dB)	(Deg.)	(m)
3856.920	50.6	1	53.7	1	-2.6	51.1	1	74.0	54.0	-2.9	177	1.6
5786.320	57.8	32.1	53.4	32.6	0.7	58.5	33.3	74.0	54.0	-15.5	163	1.8
7714.050	66.9	32.6	61.2	32.6	3.3	70.2	35.9	74.0	54.0	-3.8	192	1.4
9640.480	56.6	32.5	56.9	32.5	4.1	61.0	36.6	74.0	54.0	-13.0	149	1.6
11570.780	55.9	32.4	53.7	32.5	7.2	63.1	39.7	74.0	54.0	-10.9	186	1.2

#### Note:

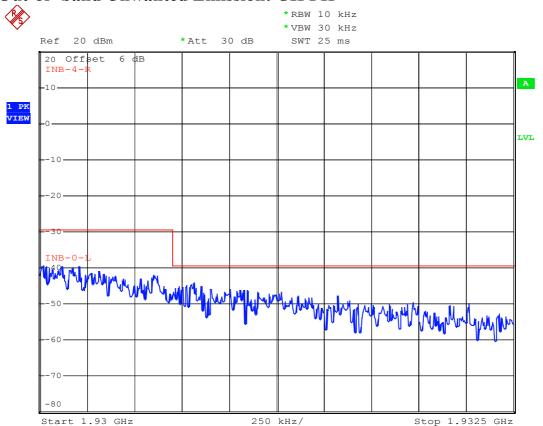
- 1. Item of margin shown in above table refer to average limit.
- 2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "\*\*\*" means that Peak result is meet average limit.
- 3. Remark "---" means that the emissions level is too low to be measured.
- 4. Item "Margin" referred to Average limit while there is only peak result.
- 5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

## **Out-of-band Unwanted Emission: CH FH**



Date: 27.MAR.2007 14:47:43

## **Out-of-band Unwanted Emission: CH FH**



Date: 27.MAR.2007 14:48:28

## 6.13.4 Photos of Radiation Measuring Setup





#### 6.14 Frame period and jitter

#### 6.14.1 Standard Applicable: FCC 15.323(e)

The frame period (a set of consecutive time slots in which the position of each time slot can cbe identified by reference to a synchronizing source) of an intentinal radiator operating in these subbnads shall be 20 missliseconds/X where X is a positive whole number. Each device that implements time division for the purposes of maintainging a duplex connection on a given frequency carrier shall maintaina frame repetition rate with a frequency stability of at least 50 parts per millions (ppm). Each device which further divides access in time in order to support multiple communication links on a given frequency carrier shall maintain a frame repetition rate with a frequency stability of at least 10 ppm. The jitter (time-releated, abrupt, spurious variations in the duration of the frame interval) introduced at the two ends of such a communication link shall not exceed 25 microseconds for any two consecutive transmissions. Transmissions shall be continuous in every time and spectrum window during the frame period defined for the device.

#### 6.14.2 Measurement procedure

- Frame frequency stability  $\leq 50$  ppm
- TDMA frame frequency stability  $\leq 10$  ppm (That translates to frequency drift of 19.2 kHz/slot for 1920 MHz carrier)
- Frame jitter  $\leq 25 \mu s$

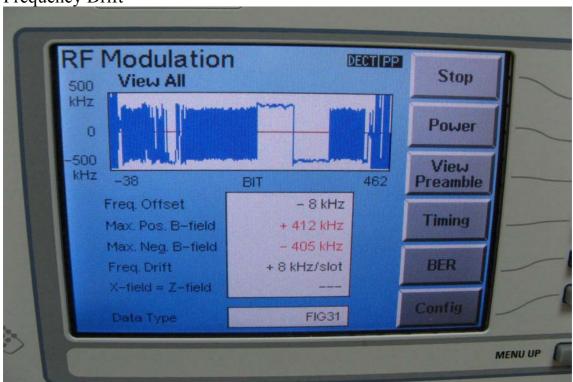
## **6.14.3 Test Results: Complies**

## **Measurement Data**

Channel No.	_	uency z/slot)	Jitter (us)			
	Drift	Limit	Result	Limit		
$F_{ m L}$	8	19.2	-0.85	25		
$F_{H}$	5	19.2	-0.84	25		

Photos of worst-case disply follow:

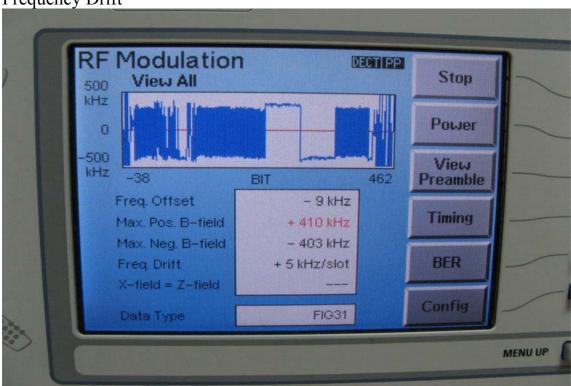
Frequency Drift



TDMA Frame Jitter



Frequency Drift



TDMA Frame Jitter



#### 6.15 Carrier frequency stability

#### 6.15.1 Standard Applicable: FCC 15.323(f)

The frequency stability of the carrier frequency of the intentional radiator shall be maintained within ± 10 ppm over 1 hour or the interval between channel access monitoring, whichever is shorter. The frequency stability shall be maintained over a temperature variation of -20 °C to +50 °C degrees C at normal supply voltage, a nd over a variation in the primary supply voltage of 85 percent to 115 percent of the rated supply voltage at a temperature of 20 °C. For equipment that is capable only of operating form a battery, the frequency stability tests shall be performed using a new battery without any further requirement to vary supply voltage.

#### **6.15.2 Measurement Requirement**

- Carrier frequency stability ≤ 10 ppm over 1 hour or interval between channel access monitoring, whichever is shorter (That translates to frequency drift of 19.2 kHz for 1920 MHz carrier)
- Carrier frequency stability over -20°C to +50°C at normal supply voltage, and over 85% to 115% of rated supply voltage (voltage variation not required for battery operated device)

#### **6.15.3 Test Results: Complies**

#### **Measurement Data**

a) Carrier Frequncy Stability with Supply Voltage

Channel No.	1	Limit (KHz)		
	3.06V (85%)	3.6V (Normal) 4.14V (115%)		(IXIIZ)
$F_{ m L}$	7	7	6	±19.2
$F_{H}$	5	5	5	±19.2

b) Carrier Frequency Stablility with Temperature and Time

Channel No.		Frequency Offset (KHz)					
	0°C	0°C 20°C 45°C		(KHz)			
$F_{ m L}$	6	7	6	±19.2			
$\mathrm{F_{H}}$	4	5	4	±19.2			

Test was conducted for duration longer than 1 hour. Photo of worst-case display follows:



