

Giant Electronics Ltd.

Application
For
Permissive Change Class II

Two Way Radio with FRS

(FCC ID: K7GT6525)

06255641
TL/ Ann Choy
December 30, 2006

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Intertek Testing Services Hong Kong Ltd.

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MEASUREMENT/TECHNICAL REPORT

Application : Giant Electronics Ltd.
Trade Name/Model No : Motorola/ T6525
Date : December 30, 2006

This report concerns (check one:) Original Grant _____ Class II Change X

Equipment Type: FRF – Part 95 Family Radio Face Held Transmitter

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes _____ No X

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Report prepared by:

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List of attached file

Exhibit type	File Description	Filename
Operation Description	Technical Description	descri.pdf
Operation Description	Purpose of Application	product change.pdf
Test Report	Bandwidth Plot	bw.pdf
Test Report	Modulation Frequency Response	mfr.pdf
Test Report	Modulation Limit Characteristic	mlc.pdf
Test Report	Spurious Emission	spurious.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
User Manual	User Manual	manual.pdf
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	config photos.doc
Internal Photo	Internal Photo	internal photos.doc
External Photo	External Photo	external photos.doc
Test Report	Tune Up Procedure	tuneup.pdf
Test Report	Part List	partlist.pdf
Test Report	Audio Low Pass Filter Response	lpf.pdf
Cover Letter	Confidentiality Request	request.pdf

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EXHIBIT 1

GENERAL DESCRIPTION

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1.0 **General Description**

1.1 Product Description

The Equipment Under Test (EUT) is a Two Way Radio with FRS operating between 462.5625MHz and 467.7125MHz. The EUT is powered by 3.6V (1 x 3.6V "Ni-MH" type rechargeable battery) or 4.5V (3 x "AA" size 1.5V alkaline batteries). According to the user manual instructions, the EUT is turned off while in charging tray.

Transmitter Portion

- (i) Type of Emission : FRS (CH 1-7): 5K54F3E; FRS (CH 8-14): 5K60F3E
- (ii) Frequency Range : FRS 7 Channels from 462.5625MHz to 462.7125MHz
FRS 7 Channels from 467.5625MHz to 467.7125MHz
- (iii) Maximum Power Rating : FRS: 0.21W ERP
- (iv) Antenna Type : Integral

The brief circuit description is saved with filename: descri.pdf

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1.2 Purpose of Application

The purpose of application is saved with filename: purpose of change.pdf.

As the RF module remained unchanged, only results of modulation characteristic, occupied bandwidth, spurious emission, audio low pass filter characteristic and frequency stability were included in this report.

1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.4 (2003) and ANSI/TIA-603-B-2002. All measurement were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. For each scan, the procedure of maximizing emissions in Appendices D and E were followed. All Radiated tests were performed at an antenna the EUT distance of 3 meters, unless stated otherwise in the “**Justification Section**” of this Application.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the emission data is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. The test facility and site measurement data have been fully placed on file with the FCC.

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EXHIBIT 2

SYSTEM TEST CONFIGURATION

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2.0 **System Test Configuration**

2.1 Justification

The device was configured for testing in a typical fashion (as a customer would normally use it). The device was placed on a turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes. When the radiated emissions are measured.

The device was powered by 3 new "AA" size 1.5V alkaline batteries.

The frequency range from 30 MHz to 4.69 GHz was searched for spurious emissions from the device. Only those emissions reported were detected. All other emissions were at least 20 dB below the applicable limits.

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2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered on, a signal is transmitted.

2.3 Special Accessories

No special accessory is needed for compliance of this device.

2.4 Measurement Uncertainty

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

2.5 Equipment Modification

Any modification installed previous to testing by Giant Electronics Ltd. will be incorporated in each production model sold/leased in the United States.


No modification were installed by Intertek Testing Services Hong Kong Ltd.

2.6 Support Equipment

A headset with 1.2m unshielded cable. (Supplied by Client)

Confirmed by:

*Leung Wai Leung, Tommy
Assistant Manager
Intertek Testing Services Hong Kong Ltd.
Agent for Giant Electronics Ltd.*



Signature

December 30, 2006 Date

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EXHIBIT 3

MODULATION CHARACTERISTICS

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3.0 **Modulation Characteristics**

In order to satisfy the 95.637(a) requirement, Modulation Frequency Response and Modulation Limit Characteristics are attached in Exhibit 3.1 & 3.2.

Plots for each tests are saved with filename: mfr.pdf and mlc.pdf

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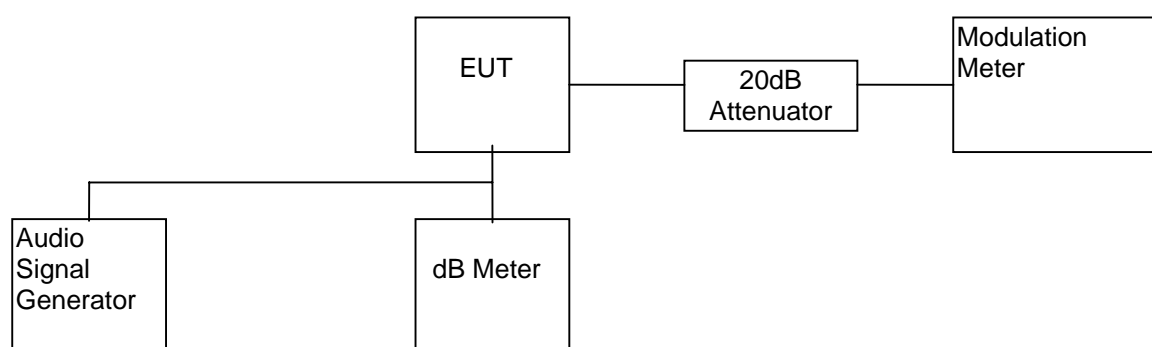
3.1 Modulation Frequency Response

A. Test Equipment

Equipment	Brand Name	Model No.
Audio Signal Generator	HP	HP8904A
AC Millivoltmeter	Leader	LMV-182A
20 dB RF Attenuator	Bird	8304-200-N
Radiocommunication Service Monitor	R&S	CMS54

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Set the audio signal generator frequency to the sound pressure level 103dB SPL at the microphone of the EUT.
- 3) The frequency of the audio signal generator is changed from 300Hz to 5kHz.
- 4) Record the frequency deviation.

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C. Test Result

Table 1

**Giant Electronics Ltd.
Motorola/ T6525**

Modulation Frequency Response

Test Channel : 4
Input level = 103dB SPL

Modulation Frequency (Hz)	Modulation index (%)
300	0.18
400	0.31
500	0.73
600	1.01
700	1.27
800	1.62
900	1.58
1000	1.69
1250	1.17
1500	1.07
1750	1.00
2000	0.84
2250	0.58
2500	0.26
2750	0.18
3000	0.18
3125	0.19
3250	0.21
3500	0.24
4000	0.12
5000	0.03

Test Engineer: Kenneth C. C. Lam Date of Test: November 24-December 22, 2006

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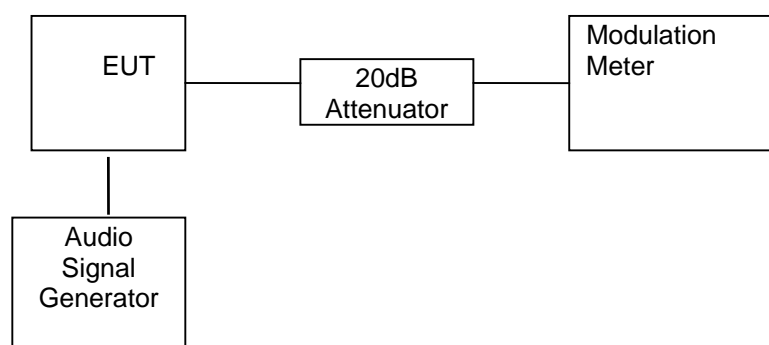
3.2 Modulation Limiting Characteristics (Section 2.1047(b))

A. Test Equipment

Equipment	Brand Name	Model No.
Audio Signal Generator	HP	HP8904A
20 dB RF Attenuator	Bird	8304-200-N
Radiocommunication Service Monitor	R&S	CMS54

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Set the frequency of the audio signal generator to 500Hz and adjust the level from 47dBSPL to 137dBSPL.
- 3) Record the maximum value of plus or minus peak frequency deviation.
- 4) Repeat the above procedure with frequency 1000Hz, 2500Hz & 3125Hz.

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C. Test Result

Table 2

**Giant Electronics Ltd.
Motorola/ T6525**

Modulation Limiting Characteristics

Test Channel : 4

Modulation Input (dBSPL)	Peak Frequency Deviation (kHz) at 500Hz	Peak Frequency Deviation (kHz) at 1000Hz	Peak Frequency Deviation (kHz) at 2500Hz	Peak Frequency Deviation (kHz) at 3125Hz
47	0.029	0.029	0.029	0.029
57	0.029	0.029	0.029	0.029
67	0.030	0.033	0.030	0.030
77	0.031	0.052	0.034	0.033
87	0.036	0.141	0.054	0.050
97	0.079	0.744	0.145	0.124
107	0.416	1.736	0.751	0.644
117	1.145	1.883	1.580	1.488
127	2.166	1.923	1.737	1.682
137	2.245	2.067	1.874	1.957

Test Engineer: Kenneth C. C. Lam Date of Test: November 24-December 22, 2006

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3.3 Audio Low Pass Filter Response (Section 95.637(b))

A. Test Equipment

Equipment	Brand Name	Model No.
Audio Signal Generator	HP	HP8904A
AC Millivoltmeter	Leader	LMV-182A

B. Testing Procedure

- 1) Connect the audio signal generator to the input of the post limiter low pass filter and the dB meter to the output of the post limiter low pass filter.
- 2) Apply a 1000 Hz tone from the audio signal generator and adjust the level per manufacturer's specifications. Record the dB level of the 1000 Hz tone as LEV_{REF} .
- 3) Set the audio signal generator to the desired test frequency between 3000 Hz and the upper low pass filter limit. Record the dB level at the test frequency as LEV_{FREQ} .
- 4) Calculate the audio frequency response at the test frequency as:

$$\text{low pass filter response} = LEV_{FREQ} - LEV_{REF}$$

- 5) Repeat the above procedure for all the desired test frequencies.

C. Test Result

For electronic filing, the audio low pass frequency response is saved with filename: lpf.pdf.

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EXHIBIT 4

OCCUPIED BANDWIDTH

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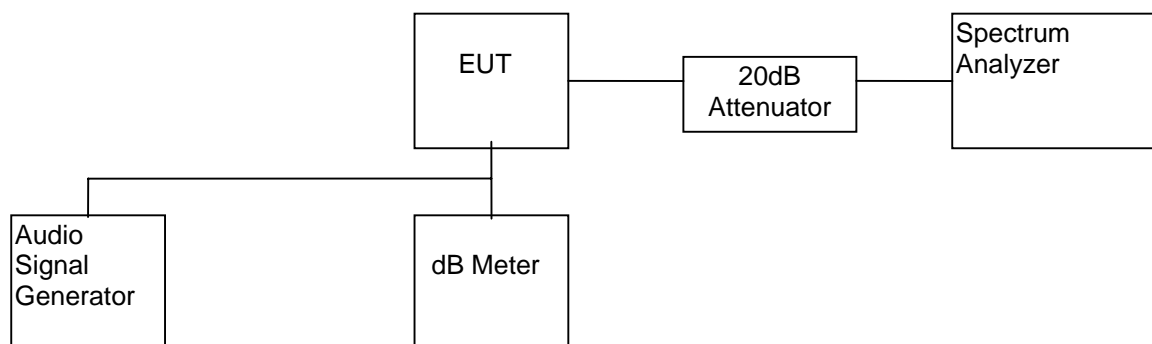
4.0 Occupied Bandwidth (Section 95.633(c))

A. Test Equipment

Equipment	Brand Name	Model No.
Audio Signal Generator	HP	HP8904A
AC Millivoltmeter	Leader	LMV-182A
20 dB RF Attenuator	Bird	8304-200-N
Spectrum Analyzer	HP	8951EM

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Set the level of audio signal generator to obtain 16 dB greater than required for 50% modulation.
- 3) The occupied bandwidth is measured with the spectrum analyzer set at 2kHz/div scan and 10dB/div.

C. Test Result

The occupied Bandwidth is measured to be 5.54 kHz (Channel 4) and 5.60 KHz (Channel 11) for FRS.

For the electronic filing, the bandwidth plot is saved with filename: bw.pdf

Test Engineer: Kenneth C. C. Lam

Date of Test: November 24-December 22, 2006

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EXHIBIT 5

SPURIOUS EMISSION

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5.0 **Spurious Emission (Section 95.635)**

In order to satisfy the 95.635 requirement, the spurious emission from the EUT are measured and shown in the Exhibit 6.1.

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5.1 Field Strength of Spurious Radiation (Section 95.635)

A. Test Equipment

Equipment	Brand Name	Model No.
Antenna	EMCO	A100, 3148, 3104C, 3115
Spectrum Analyzer	ADVANTEST	U3661
Test receiver	Rohde & Schwarz	ESVS30
RF Filter	Trilithic	3VF500/1000-5-50-CC
Signal Generator	IFR	2023B

B. Testing Procedure

Radiated emission measurements were performed according to the procedures in ANSI C63.4(2003). All measurements were performed in Open Area Test Sites located at Roof Top of Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.

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C. Radiated Emission Configuration Photograph

Worst Case Radiated Emission

For electronic filing, the radiated emission configurations photograph is saved with filename: config photos.doc

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C. Test Result

**Giant Electronics Ltd.
Motorola/ T6525**

Table 3(a)

1) Unwanted emission from CARRIER $\pm 6.25\text{kHz}$ to CARRIER $\pm 31.25\text{kHz}$

(Refer to the plots which is saved with filename: spurious.pdf)

Region	Unwanted emission	
	Channel 4	Channel 11
CARRIER $\pm 6.25\text{kHz}$ to $\pm 12.5\text{kHz}$	<25dB	<25dB
CARRIER $\pm 12.5\text{kHz}$ to $\pm 31.25\text{kHz}$	<35dB	<35dB

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Table 3(b): Channel 4

Frequency (MHz)	Effective Radiated Power (dBm)	Transmission Power (dBm)	Attenuation (dBc)	Limit (dB)	Margin (dB)
231.316	-45.0	23.2	68.2	36.2	-32.0
693.953	-26.8	23.2	50.0	36.2	-13.8
925.272	-41.7	23.2	64.9	36.2	-28.7
1387.910	-20.6	23.2	43.8	36.2	-7.6
1850.547	-23.6	23.2	46.8	36.2	-10.6
2313.186	-29.0	23.2	52.2	36.2	-16.0
2544.505	-22.6	23.2	45.8	36.2	-9.6
2775.823	-26.8	23.2	50.0	36.2	-13.8
3007.145	-28.4	23.2	51.6	36.2	-15.4
3238.461	-27.8	23.2	51.0	36.2	-14.8
3932.417	-33.2	23.2	56.4	36.2	-20.2

- Remark: 1. Transmission power is 23.2 dBm or -6.8 dB(W).
2. According to Section 95.635(b7), the unwanted emission should be attenuated below TP by at least $43 + 10 \log_{10} (TP)$ dB or 36.2 dB.
3. The test is performed according to ANSI/TIA-603-B-2002.

Test Engineer: Kenneth C. C. Lam Date of Test: November 24-December 22, 2006

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Table 3(b): Channel 11

Frequency (MHz)	Effective Radiated Power (dBm)	Transmission Power (dBm)	Attenuation (dBc)	Limit (dB)	Margin (dB)
233.819	-44.7	23.2	67.9	36.2	-31.7
701.456	-33.0	23.2	56.2	36.2	-20.0
935.276	-35.9	23.2	59.1	36.2	-22.9
1402.910	-24.4	23.2	47.6	36.2	-11.4
1870.547	-25.4	23.2	48.6	36.2	-12.4
2338.184	-31.9	23.2	55.1	36.2	-18.9
2572.003	-24.1	23.2	47.3	36.2	-11.1
2805.823	-21.7	23.2	44.9	36.2	-8.7
3039.641	-27.3	23.2	50.5	36.2	-14.3
3273.460	-24.6	23.2	47.8	36.2	-11.6
3974.915	-33.6	23.2	56.8	36.2	-20.6

- Remark: 1. Transmission power is 23.2 dBm or -6.8 dB(W).
2. According to Section 95.635(b7), the unwanted emission should be attenuated below TP by at least $43 + 10 \log_{10} (TP)$ dB or 36.2 dB.
3. The test is performed according to ANSI/TIA-603-B-2002.

Test Engineer: Kenneth C. C. Lam Date of Test: November 24-December 22, 2006

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EXHIBIT 6

FREQUENCY STABILITY

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6.0 **Frequency Stability**

The frequency tolerance was tested in normal condition & over extreme ambient conditions with respect to voltage and temperature variation.

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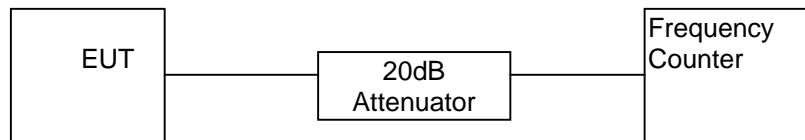
6.1 Frequency Tolerance (Section 95.627)

A. Test Equipment

Equipment	Brand Name	Model No.
20 dB RF Attenuator	Bird	8304-200-N
Frequency Counter	OPTOELECTRONICS	3000A

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Measure all transmit channel frequencies in MHz.

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C. Test Result

Table 4

**Giant Electronics Ltd.
Motorola/ T6525**

Frequency Tolerance

Channel	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (%)
1	462.5625	462.56282	0.000069
2	462.5875	462.58779	0.000063
3	462.6125	462.61278	0.000061
4	462.6375	462.63775	0.000054
5	462.6625	462.66274	0.000052
6	462.6875	462.68771	0.000045
7	462.7125	462.71270	0.000043
8	467.5625	467.56279	0.000062
9	467.5875	467.58777	0.000058
10	467.6125	467.61276	0.000056
11	467.6375	467.63778	0.000060
12	467.6625	467.66287	0.000079
13	467.6875	467.68776	0.000056
14	467.7125	467.71286	0.000077

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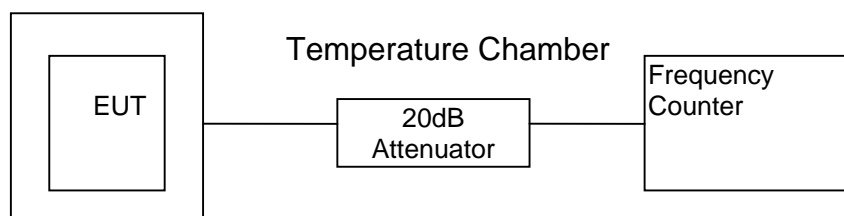
6.2 Frequency Stability - Temperature (Section 2.1055)

A. Test Equipment

Equipment	Brand Name	Model No.
20 dB RF Attenuator	Bird	8304-200-N
Frequency Counter	OPTOELECTRONICS	3000A

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Set the Temperature Chamber to 20°C and stabilize the EUT temperature for one hour. Set transmitter ON for two minutes.
- 3) Measure the channel frequency of channel 4, 11 in MHz.
- 4) Turn the EUT OFF.
- 5) Repeat the above procedure from -20°C to 50°C with 10°C increment.

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C. Test Result

Table 5(a)

**Giant Electronics Ltd.
Motorola/ T6525**

Frequency Deviation with Temperature Variation

Channel : 4

Temperature (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Deviation (%)	*Frequency Tolerance with reference to its value at +20°C (ppm)
-20	462.6375	462.63756	0.000013	-0.4
-10	462.6375	462.63774	0.000052	0.0
0	462.6375	462.63804	0.000117	0.6
10	462.6375	462.63819	0.000149	1.0
20	462.6375	462.63775	0.000054	0.0
30	462.6375	462.63742	-0.000017	-0.7
40	462.6375	462.63724	-0.000056	-1.1
50	462.6375	462.63743	-0.000015	-0.7

*Remark: This column is presentable for Industry Canada Certification only.

Test Engineer: Kenneth C. C. Lam Date of Test: November 24-December 22, 2006

INTERTEK TESTING SERVICES

C. Test Result

Table 5(b)

**Giant Electronics Ltd.
Motorola/ T6525**

Frequency Deviation with Temperature Variation

Channel : 11

Temperature (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Deviation (%)	*Frequency Tolerance with reference to its value at +20°C (ppm)
-20	467.6375	467.63754	0.000009	-0.5
-10	467.6375	467.63781	0.000066	0.1
0	467.6375	467.63806	0.000120	0.6
10	467.6375	467.63813	0.000135	0.7
20	467.6375	467.63778	0.000060	0.0
30	467.6375	467.63742	-0.000017	-0.8
40	467.6375	467.63724	-0.000056	-1.2
50	467.6375	467.63742	-0.000017	-0.8

*Remark: This column is presentable for Industry Canada Certification only.

Test Engineer: Kenneth C. C. Lam Date of Test: November 24-December 22, 2006

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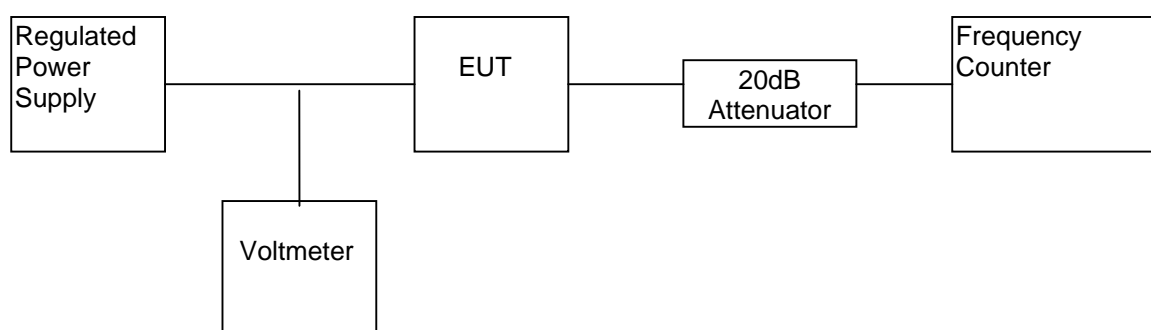
6.3 Frequency Stability - Voltage (Section 2.995)

A. Test Equipment

Equipment	Brand Name	Model No.
Regulated Power Supply	PAD	30-35L
20 dB RF Attenuator	Bird	8304-200-N
Voltage meter	Fluke	87
Frequency Counter	OPTOELECTRONICS	3000A

B. Testing Procedure

- 1) Set-up the test equipment in the following configuration:



- 2) Vary the level of regulated power supply to the manufacturer specified battery end point of the EUT.
- 3) Measure the channel frequency of channel 4 and 11 in MHz.

INTERTEK TESTING SERVICES

C. Test Result

Table 6

**Giant Electronics Ltd.
Motorola/ T6525**

Frequency Deviation with Voltage Variation

The manufacturer specified battery end point 3.52V

Channel	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (%)
4	462.63750	462.63758	0.000017
11	467.63750	467.63758	0.000017

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EXHIBIT 7

TECHNICAL SPECIFICATIONS

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7.0 Technical Specifications

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7.1 Block Diagram

For electronic filing, the block diagram of the transceiver is saved with filename: block.pdf

Figure 7.1 Block Diagram

7.2 Schematic Diagram

For electronic filing, the schematic diagram of the transceiver is saved with filename: circuit.pdf

Figure 7.2 Schematic Diagram

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EXHIBIT 8

PHOTOGRAPHS

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8.0 Equipment Photographs

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

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EXHIBIT 9

INSTRUCTION MANUAL

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9.0 **Instruction Manual**

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

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

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EXHIBIT 10

TUNE UP PROCEDURE

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10.0 Tune Up Procedure

For electronic filing, a preliminary copy of the Tune Up Procedure is saved with filename: tuneup.pdf

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EXHIBIT 11

PART LIST

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11.0 **Part List**

For electronic filing, a preliminary copy of the Part List is saved with filename: partlist.pdf

EXHIBIT 12
INPUT CURRENT

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12.0 Input Current

The input current to final r.f. stage at 4.5VDC is 0.36A.

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EXHIBIT 13

RF EXPOSURE INFO

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13.0 RF Exposure Info

The RF Safety Information is shown on P.2-3 of User Manual.

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EXHIBIT 14

CONFIDENTIALITY REQUEST

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14.0 Confidentiality Request

For electronic filing, a confidentiality request is saved with filename: request.pdf