



**ADDENDUM TO GARMIN INTERNATIONAL, INC.
TEST REPORT FC07-082A**

FOR THE

REMOTE CONTROL, GRC 10

**FCC PART 15 SUBPART B SECTION 15.109 CLASS B,
FCC PART 15 SUBPART C SECTION 15.247 & RSS 210 ISSUE 7**

TESTING

DATE OF ISSUE: FEBRUARY 19, 2008

PREPARED FOR:

Garmin International, Inc.
1200 E. 151st. Street
Olathe, KS 66062

P.O. No.: 229767
W.O. No.: 86611

PREPARED BY:

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Date of test: September 12, 2007 –
February 15, 2008

Report No.: FC07-082B

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ADMINISTRATIVE INFORMATION

DATE OF TEST: September 12, 2007 –
February 15, 2008

DATE OF RECEIPT: September 12, 2007

REPRESENTATIVE: Van Ruggles

MANUFACTURER:
Garmin International, Inc.
1200 E. 151st. Street
Olathe, KS 66062

TEST LOCATION:
CKC Laboratories, Inc.
110 Olinda Place, Brea, CA 92823
5046 Sierra Pines Dr., Mariposa, CA 95338

TEST METHOD: ANSI C63.4 (2003), RSS-210 Issue 7 & RSS GEN Issue 2

PURPOSE OF TEST:

Original Report: To perform the testing of the Remote Control, GRC 10 with the requirements for FCC Part 15 Subpart B Section 15.109, FCC Part 15 Subpart C Section 15.247 and RSS-210 devices.

Addendum A: To replace the radiated spurious emissions, bandedge, RF power and power spectral density data with new testing after a SAW filter was added to the output trace.

Addendum B: To replace the RF power output and peak power spectral density data with new testing.

APPROVALS

Steve Behm, Director of Engineering Services

QUALITY ASSURANCE:



Mike Wilkinson, EMC Engineer/Lab
Manager

TEST PERSONNEL:



Eddie Wong, EMC Engineer



Chuck Kendall, Senior EMC Consultant

FCC TO CANADA STANDARD CORRELATION MATRIX

Canadian Standard	Canadian Section	FCC Standard	FCC Section	Test Description
RSS GEN	7.1.4	47CFR	15.203	Antenna Connector Requirements
RSS GEN	7.2.1	47CFR	15.35(c)	Pulsed Operation
RSS GEN	7.2.2	47CFR	15.207	AC Mains Conducted Emissions Requirement
RSS 210	2.1	47CFR	15.215(c)	Frequency Stability Recommendation
RSS 210	2.2	47CFR	15.205	Restricted Bands of Operation
RSS 210	2.6	47CFR	15.209	General Radiated Emissions Requirement
RSS 210	A8.2(1)	47CFR	15.247(a)(2)	Minimum 6dB Bandwidth
RSS 210	A8.2(2)	47CFR	15.247(e)	Peak Power Spectral Density
RSS 210	A8.4(4)	47CFR	15.247(b)(3)	RF Power Output
RSS 210	A8.4(4)	NA	NA	EIRP Limit
RSS 210	A8.4(5)	47CFR	15.247(c)(1)	Directional Gain Requirements
RSS 210	A8.4(6)	47CFR	15.247(c)(2)	Beam Steering Antennas
RSS 210	A8.5	47CFR	15.247(d)	Spurious Emissions
	3172-A		90473	Site File

Notes: Rule Sections for RSS 210 are taken from RSS 210 Issue 7

CONDITIONS DURING TESTING

No modifications to the EUT were necessary during testing. Conducted emissions were not required because the EUT is battery operated.

FCC 15.31(e) Voltage Variations

This device is battery powered. The EUT was evaluated with a new battery installed.

FCC 15.31(m) Number of Channels

This device was tested on three channels.

FCC 15.33(a) Frequency Ranges Tested

15.109 Radiated Emissions: 30 MHz – 25 GHz

15.247(d) Radiated Emissions: 9 kHz – 25 GHz

FCC 15.203 Antenna Requirements

The antenna is an integral part of the EUT and is non-removable; therefore the EUT complies with Section 15.203 of the FCC rules.

EUT Operating Frequency

The EUT was operating at 2403 - 2412 MHz. The EUT is a direct sequencing device operating in the 2400 – 2483.5 MHz band.

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The customer declares the EUT tested by CKC Laboratories was representative of a production unit. The EUT is a battery operated (two AA batteries) portable wireless remote transceiver for XM radio in aircraft.

EQUIPMENT UNDER TEST

Remote Control

Manuf: Garmin International, Inc.
Model: GRC 10
Serial: 14R000050, 14R000412 &
14R000416
FCC ID: IPH-01178 (pending)
IC: 1792A-01178 (pending)

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

Remote Transceiver

Manuf: Garmin International, Inc.
Model: GRT 10
Serial: Interrogator 14Q000339
FCC ID: IPH-01179 (pending)
IC: 1792A-01179 (pending)

DC Power Supply

Manuf: Topward
Model: 6303D
Serial: 988614

Laptop Computer

Manuf: Toshiba
Model: SatelliteA105
Serial: 36322146Q

Laptop Power Supply

Manuf: Toshiba
Model: 3469U-1ACA
Serial: PA3469U

Power Supply

Manuf: Astron
Model: VLS-10M
Serial: 99050008

REPORT OF EMISSIONS MEASUREMENTS

TESTING PARAMETERS

TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within +15°C and + 35°C.

The relative humidity was between 20% and 75%.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dB μ V/m, the spectrum analyzer reading in dB μ V was corrected by using the following formula. This reading was then compared to the applicable specification limit.

SAMPLE CALCULATIONS		
	Meter reading	(dB μ V)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dB μ V/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. The bandwidth settings that were used in designated frequency bands are listed on the individual data sheets or plots. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used.

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the highest readings, this is indicated as a "QP" or an "Ave" on the appropriate rows of the data sheets. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer/receiver readings were recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the measuring device called "peak hold," the measuring device had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the quasi-peak detector.

Average

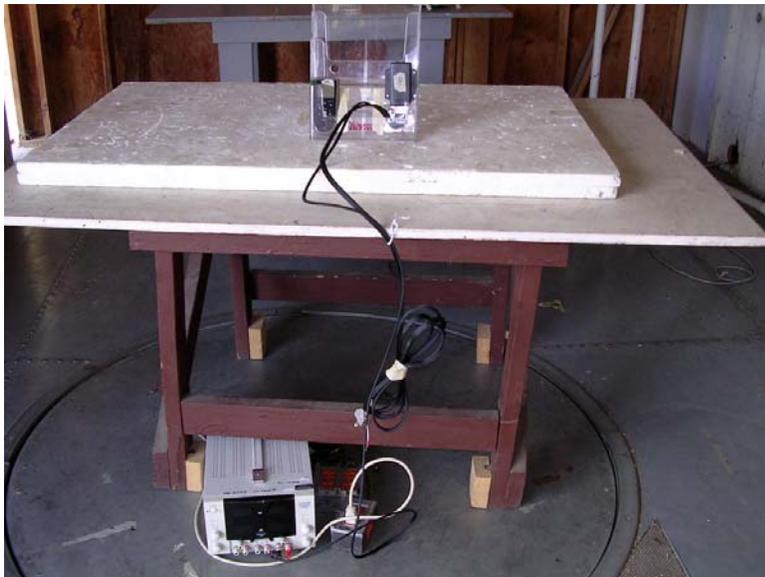
For certain frequencies, average measurements may be made using the spectrum analyzer/receiver. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.

FCC 15.109 RADIATED EMISSIONS

Test Setup Photos



Upright Position



Upright Position



Flat Position



Flat Position

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Garmin International, Inc.**
 Specification: **FCC 15.109 Class B**
 Work Order #: **86612** Date: 9/25/2007
 Test Type: **Radiated Scan** Time: 13:32:13
 Equipment: **Remote Control** Sequence#: 5
 Manufacturer: Garmin International, Inc. Tested By: E. Wong
 Model: GRT 10 & GRC 10
 S/N: 14Q000037 & 14R000050

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Bilog Antenna	2451	02/02/2006	02/02/2008	01995
Pre amp to SA Cable	Cable #10	05/16/2007	05/16/2009	P05050
Cable	Cable15	01/05/2007	01/05/2009	P05198
Pre Amp	1937A02548	06/01/2006	06/01/2008	00309
Horn Antenna	6246	06/29/2006	06/29/2008	00849
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
HeliAx Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
18-26GHz Horn	3643A00027	11/27/2006	11/27/2008	02112
24" SMA Cable	1-26GHz_white	01/11/2007	01/11/2009	P05183

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Remote Transceiver	Garmin International, Inc.	GRT 10	14Q000037
Remote Control*	Garmin International, Inc.	GRC 10	14R000050

Support Devices:

Function	Manufacturer	Model #	S/N
DC Power Supply	Topward	6303D	988614
Remote Transceiver	Garmin International, Inc.	GRT 10	Interrogator

Test Conditions / Notes:

The EUT is placed on the wooden table with 10 cm of Styrofoam material. The EUT receives a RF command from a remote interrogator and then the EUT sets the receiving frequency that it operates on. A section of data cable is connected to the RS232 port of the GRT 10, with data streaming in loop back manner.

Mode: Standby/receive

Modulation: GFSK

Freq: 2408 (ch 8)

Frequency range of measurement = 30 MHz - 25 GHz.

Frequency 30 - 1000 MHz, RBW=120 kHz, VBW=120 kHz; 1000 - 25,000 MHz, RBW=1 MHz, VBW=1 MHz.

The emission profile of all three orthogonal orientations was investigated.

GRT 10: worst case is EUT placed upright and laying flat.

GRC 10: worst case is EUT placed upright.

3 V (new battery), 23°C and 49% relative humidity.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509
T5=Pre amp 1- 26GHz 071908	T6=54' Heliac Cable 091808 P05565
T7=Horn 00849_062908	T8=SMA-cable_W_05183-011109-26GHz

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 T6 dB	T3 T7 dB	T4 T8 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	2754.000M	47.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.3	54.0	-9.7	Horiz
	Ave		-38.5	+3.9	+29.6	+1.5			Flat		
^	2754.000M	51.8	+0.0	+0.0	+0.0	+0.0	+0.0	48.3	54.0	-5.7	Horiz
			-38.5	+3.9	+29.6	+1.5			Flat		
^	2754.000M	49.0	+0.0	+0.0	+0.0	+0.0	+0.0	45.5	54.0	-8.5	Horiz
			-38.5	+3.9	+29.6	+1.5			Up right		
4	3913.200M	41.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.1	54.0	-11.9	Vert
			-38.0	+4.7	+32.4	+1.7			Up right		
5	2754.000M	44.5	+0.0	+0.0	+0.0	+0.0	+0.0	41.0	54.0	-13.0	Horiz
	Ave		-38.5	+3.9	+29.6	+1.5			Up right		
6	2754.000M	43.3	+0.0	+0.0	+0.0	+0.0	+0.0	39.8	54.0	-14.2	Vert
	Ave		-38.5	+3.9	+29.6	+1.5			Up right		
^	2754.000M	49.2	+0.0	+0.0	+0.0	+0.0	+0.0	45.7	54.0	-8.3	Vert
			-38.5	+3.9	+29.6	+1.5			Up right		
^	2754.000M	47.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.3	54.0	-9.7	Vert
			-38.5	+3.9	+29.6	+1.5			Flat		
9	765.600M	24.0	-27.0	+22.1	+0.5	+5.4	+0.0	25.0	46.0	-21.0	Vert
			+0.0	+0.0	+0.0	+0.0					
10	446.850M	25.7	-27.6	+17.0	+0.4	+4.0	+0.0	19.5	46.0	-26.5	Horiz
			+0.0	+0.0	+0.0	+0.0					

FCC 15.247(a)(2) BANDWIDTH PLOTS

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02672	Agilent	E4446A	US44300438	010307	010309
Horn Antenna	00849	EMCO	3115	6246	062906	062908
Microwave Pre-amp	00786	HP	83017A	3123A00281	071906	071908
Heliac Antenna cable	P05565	Andrew	LDF1-50	P5565	091806	091808
24" SMA Cable (White)	P05183	Pasterneck	35591-48	1-40GHz_white	011107	011109

Test Conditions

The EUT is placed on the wooden table with 10 cm of Styrofoam material. The EUT receives a RF command from a remote interrogator and then the EUT sets the transmitting frequency that it operates on. EUT transmits at max power and executes a test routine. Non-functional mini USB port is left unpopulated.

Mode: Transmit

Modulation: GFSK

Freq: 2403 MHz (ch 3), 2408 MHz (ch 8) and 2412 MHz (ch 12)

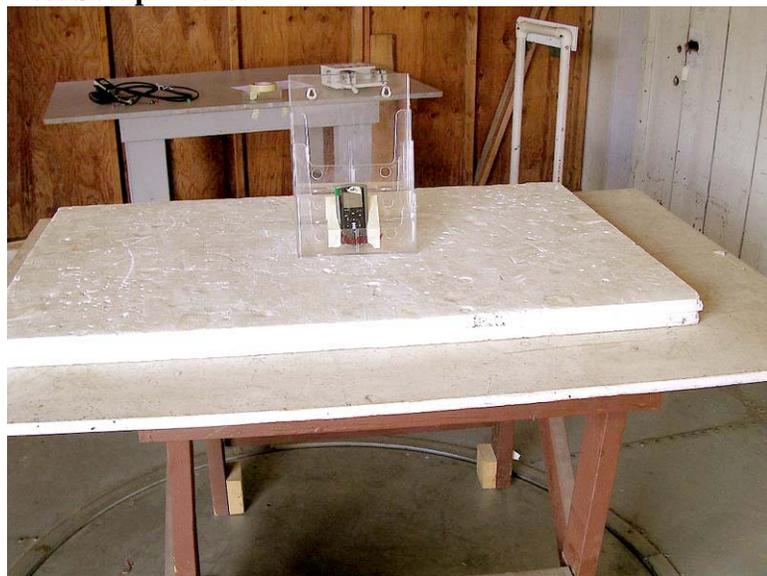
The emission profile of all three orthogonal orientations was investigated.

GRC 10: worst case is EUT placed up right.

3 V (new battery), 23°C and 49% relative humidity.

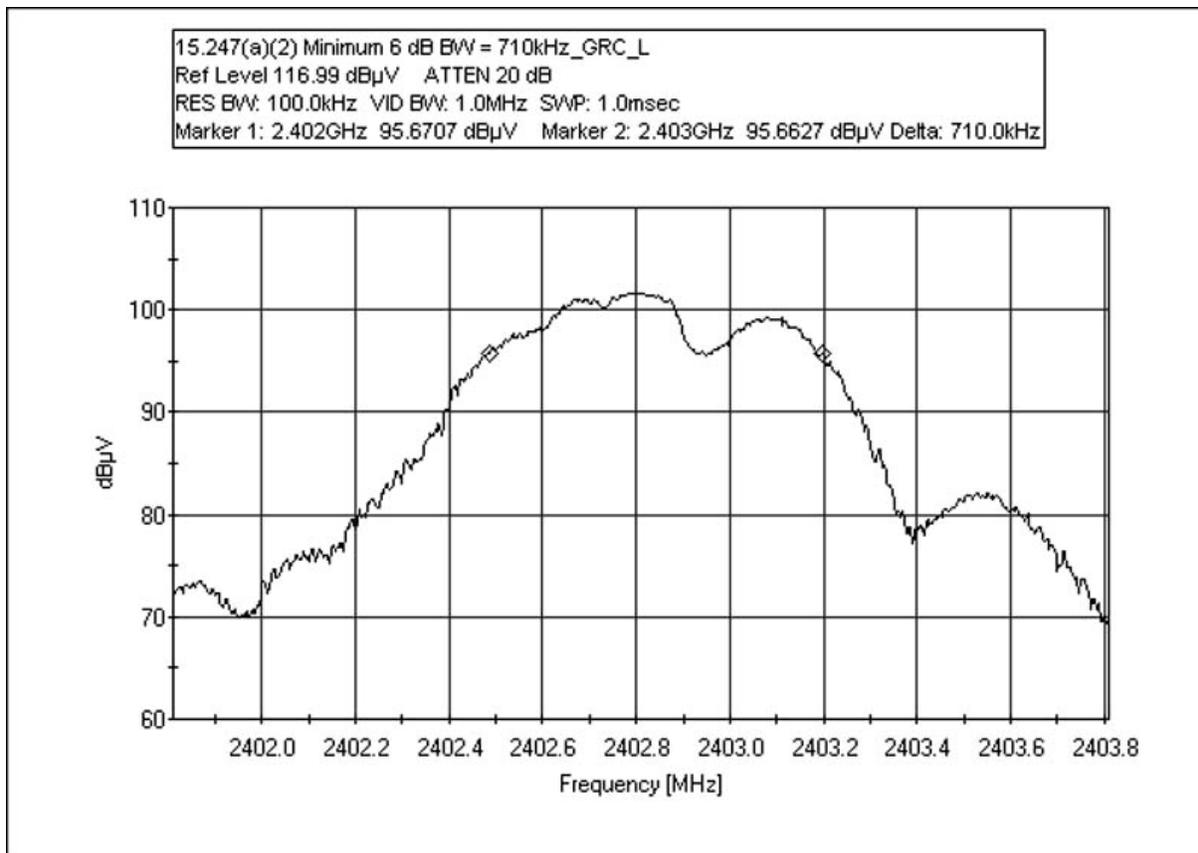
Note: Serial number 14R000450 tested.

Test Setup Photos

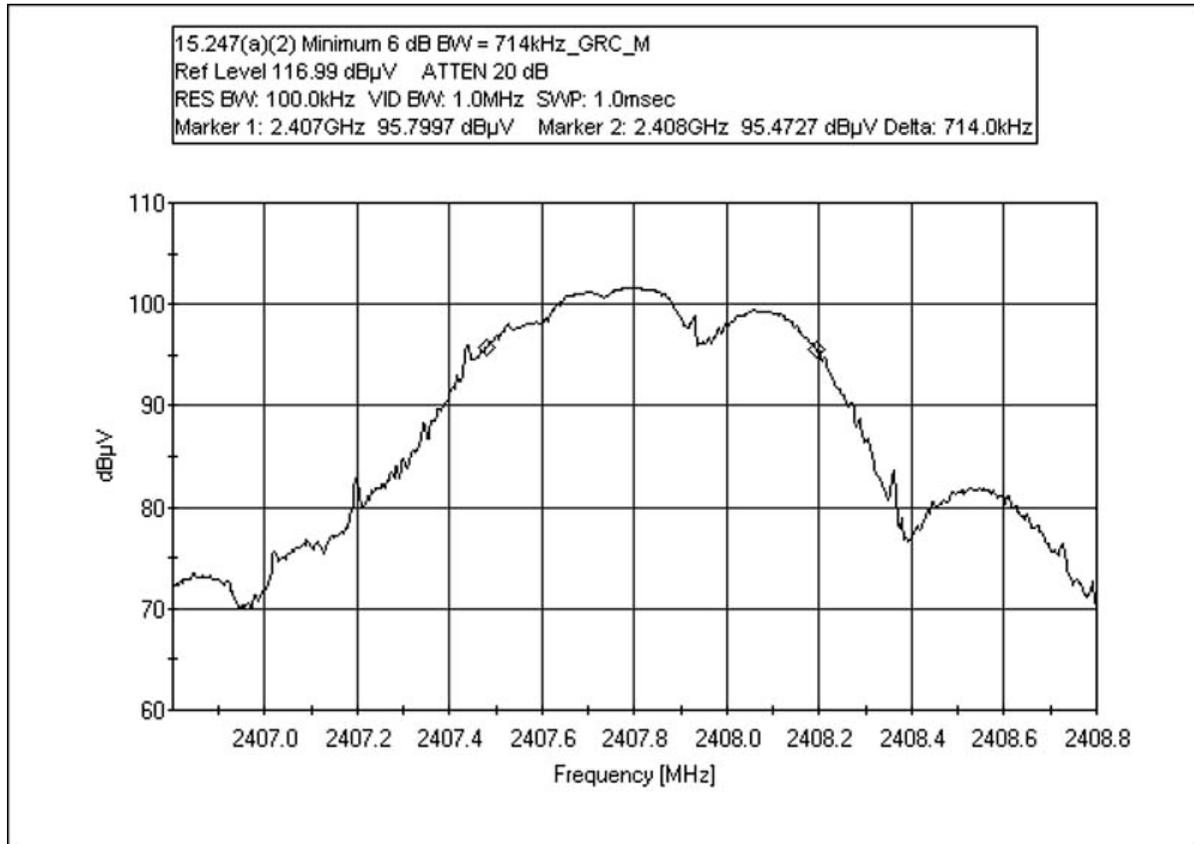




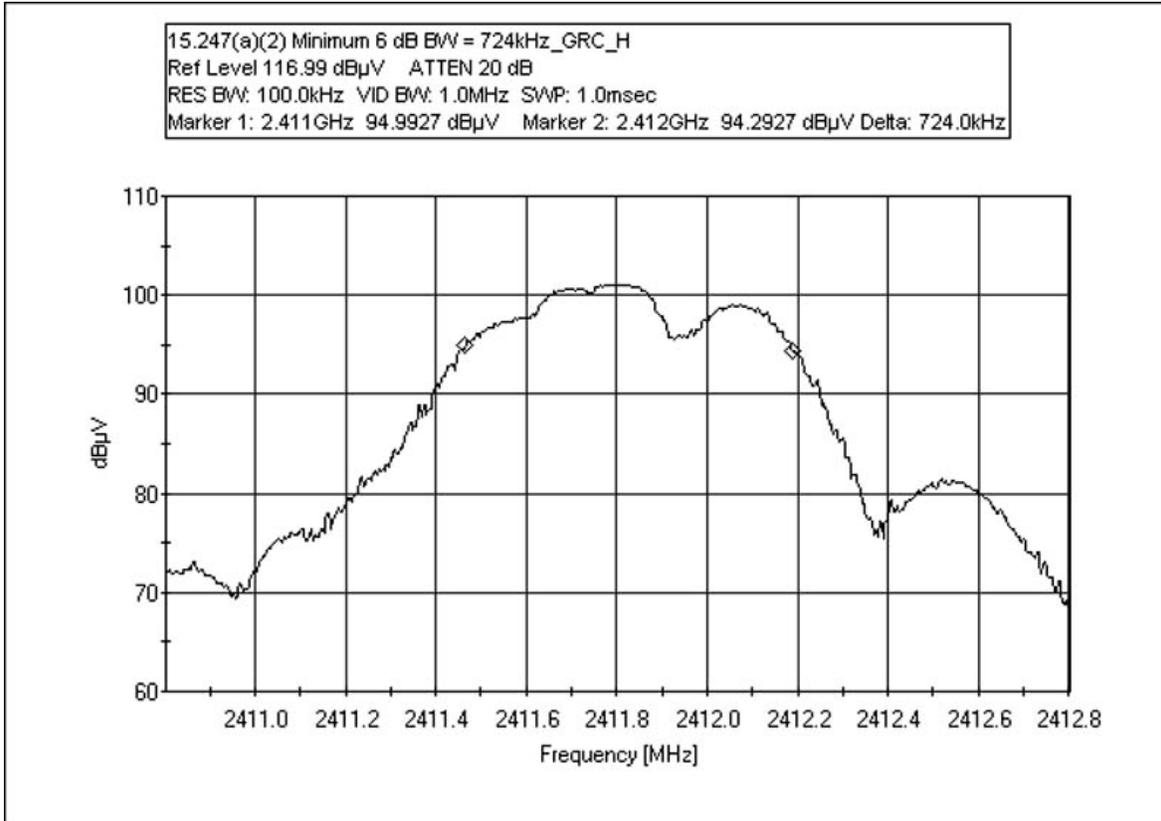
FCC 15.247(a)(2) - Low



FCC 15.247(a)(2) - Medium



FCC 15.247(a)(2) - High



FCC 15.247(b)(3) RF POWER OUTPUT

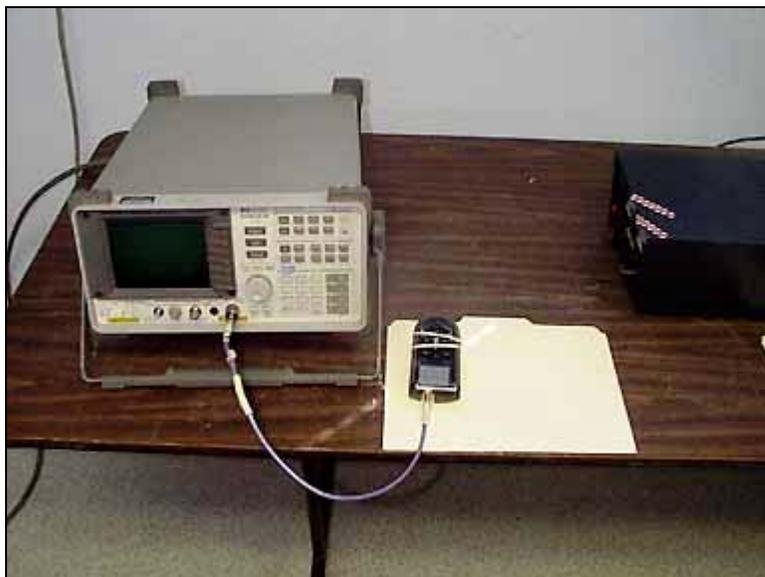
Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02111	HP	8593EM	3624A00159	3/23/07	3/23/09
Coax	P01527	Unknown	12" long	N/A	5/16/07	5/16/09

Test Conditions: Each channel was selected using the laptop computer to select the test mode, frequency/channel, and constant transmit mode of the GRC-10 by programming the interrogator that in-turn sent the commands via RF to the hand held. Resolution BW was set to 1 MHz and the Video BW was set to 3 MHz for these readings. The frequency span was set to capture the entire signal. Frequency range was: 2402.8 – 2412 MHz. Mode:Transmit. Modulation: GFSK.

Test Setup Photos





§15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

(b) The maximum peak output power of the intentional radiator shall not exceed the following:

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Handheld Remote: GRC10 P/N: 011-01558-00 S/N:14R000416

Channel	Frequency (GHz)	Peak Output Reading (dBm)	P01527 Cable Loss (dB)	Corrected Reading (dBm)
3	2.402858 GHz	-2.34	0.4	- 2.30
8	2.407860 GHz	-1.82	0.4	- 1.78
12	2.412130 GHz	-1.61	0.4	- 1.57

Tested by: Chuck Kendall

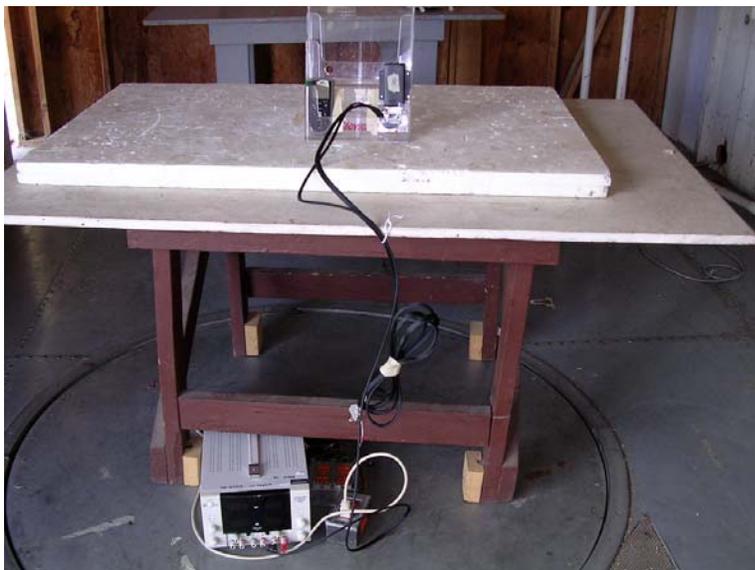
15.31(e): The equipment under test was evaluated with a new battery.

FCC 15.247(d) OATS RADIATED SPURIOUS EMISSIONS

Test Setup Photos



Upright Position



Upright Position



Flat Position



Flat Position

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Garmin AT**
 Specification: **FCC 15.247 (d) (FCC 15.205 restricted band)**
 Work Order #: **86612** Date: 1/10/2008
 Test Type: **Radiated Scan** Time: 15:10:15
 Equipment: **Remote control** Sequence#: 30
 Manufacturer: **Garmin AT** Tested By: E. Wong
 Model: **GRC10**
 S/N: **14R000412**

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Bilog Antenna	2451	02/02/2006	02/02/2008	01995
Pre amp to SA Cable	Cable #10	05/16/2007	05/16/2009	P05050
Cable	Cable15	01/05/2007	01/05/2009	P05198
Pre Amp	1937A02548	06/01/2006	06/01/2008	00309
Horn Antenna	6246	06/29/2006	06/29/2008	00849
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
Heliacx Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
18-26GHz Horn	3643A00027	11/27/2006	11/27/2008	02112
Loop Antenna	2014	06/14/2006	06/14/2008	00314
3.0 GHz HPF	1	03/08/2006	03/08/2008	02744
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Remote control*	Garmin AT	GRC10	14R000412

Support Devices:

Function	Manufacturer	Model #	S/N
Remote Transceiver	Garmin AT	GRT10	Interrogator 14Q000339

Test Conditions / Notes:

The EUT is placed on the wooden table with 10 cm of Styrofoam material. The EUT receives RF commands from remote interrogator, set up transmit frequencies, transmits at max power and executes test routine. Non functional Mini USB port is left unpopulated. Frequency range 2402.8 – 2412 MHz. Mode: Transmit. Modulation: GFSK. Frequency: 2402.8 MHz (CH3). Frequency range of measurement = 9 kHz - 25 GHz. Frequency 9 kHz - 150 kHz RBW=200 Hz, VBW=200 Hz; 150 kHz - 30 MHz RBW=9 kHz, VBW=9 kHz; 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 25,000 MHz RBW=1 MHz, VBW=1 MHz. The emission profile of all three orthogonal orientations was investigated. GRC: worse case is EUT placed up right. 3V (new battery), 23°C, 49% relative humidity. Note: SAW filter installed.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509
T5=Pre amp 1- 26GHz 071908	T6=54' Heliac Cable 091808 P05565
T7=Horn 00849_062908	T8=Filter 3GHz HPF AN02744
T9=Hi Freq_40GHz_2ft-ANP02948-091809	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 T9 dB	T2 T6 dB	T3 T7 dB	T4 T8 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	68.257M	53.0	-27.7 +0.0 +0.0	+6.0 +0.0	+0.0 +0.0	+1.5 +0.0	+0.0	32.8	40.0	-7.2	Vert
2	80.781M	50.5	-27.8 +0.0 +0.0	+7.7 +0.0	+0.1 +0.0	+1.6 +0.0	+0.0	32.1	40.0	-7.9	Vert
3	69.007M	51.9	-27.7 +0.0 +0.0	+6.0 +0.0	+0.0 +0.0	+1.5 +0.0	+0.0	31.7	40.0	-8.3	Vert
4	4805.533M Ave	40.1	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	43.1	54.0 Flat	-10.9	Vert
^	4805.575M	47.3	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	50.3	54.0 Up right	-3.7	Vert
^	4805.533M	45.9	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	48.9	54.0 Flat	-5.1	Vert
^	4805.550M	46.5	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	48.0	54.0 upright	-6.0	Vert
8	4805.600M Ave	41.5	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	43.0	54.0 flat	-11.0	Vert
9	4805.575M Ave	39.7	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	42.7	54.0 Up right	-11.3	Vert
^	4805.650M	46.5	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	48.0	54.0 flat	-6.0	Vert
11	4805.500M Ave	41.2	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	42.7	54.0 flat	-11.3	Horiz
12	4805.667M Ave	38.8	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	41.8	54.0 Up right	-12.2	Horiz
^	4805.667M	45.2	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	48.2	54.0 Up right	-5.8	Horiz

14	4805.550M Ave	40.1	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	41.6	54.0 upright	-12.4	Vert
15	4805.533M Ave	38.1	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	41.1	54.0 Flat	-12.9	Horiz
^	4805.500M	47.6	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	49.1	54.0 flat	-4.9	Horiz
^	4805.450M	46.6	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	48.1	54.0 upright	-5.9	Horiz
^	4805.533M	45.0	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	48.0	54.0 Flat	-6.0	Horiz
19	4805.450M Ave	39.5	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	41.0	54.0 upright	-13.0	Horiz
20	60.811M	46.1	-27.7 +0.0 +0.0	+6.2 +0.0	+0.1 +0.0	+1.3 +0.0	+0.0	26.0	40.0	-14.0	Vert
21	7208.433M	57.4	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.7	+0.0 +2.7	+0.0	65.4	80.0 Up right	-14.6	Horiz
22	250.000M	38.7	-27.7 +0.0 +0.0	+12.5 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	26.7	46.0	-19.3	Horiz
23	7208.330M	50.7	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.7	+0.0 +2.7	+0.0	58.7	80.0 Up right	-21.3	Vert
24	202.849M	37.9	-27.6 +0.0 +0.0	+9.0 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	22.1	43.5	-21.4	Vert
25	9611.170M	45.0	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.8	+0.0 +3.3	+0.0	58.2	80.0 Flat	-21.8	Horiz
26	7208.400M	48.4	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.7	+0.0 +2.7	+0.0	56.4	80.0 Flat	-23.6	Vert
27	7208.200M	48.3	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.7	+0.0 +2.7	+0.0	56.3	80.0 Flat	-23.7	Horiz
28	9611.100M	42.1	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.8	+0.0 +3.3	+0.0	55.3	80.0 Up right	-24.7	Horiz
29	165.892M	33.3	-27.7 +0.0 +0.0	+9.9 +0.0	+0.3 +0.0	+2.3 +0.0	+0.0	18.1	43.5	-25.4	Horiz
30	9611.300M	41.4	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.8	+0.0 +3.3	+0.0	54.6	80.0 Up right	-25.4	Vert

31	9611.250M	39.3	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.8	+0.0 +3.3	+0.0	52.5	80.0 Flat	-27.5	Vert
32	7208.200M	46.3	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.7	+0.0 +0.1	+0.0	52.2	80.0 upright	-27.8	Horiz
33	7208.233M	46.1	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.7	+0.0 +0.1	+0.0	52.0	80.0 upright	-28.0	Vert
34	7208.283M	46.0	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.7	+0.0 +0.1	+0.0	51.9	80.0 flat	-28.1	Horiz
35	7208.383M	44.6	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.7	+0.0 +0.1	+0.0	50.5	80.0 flat	-29.5	Vert

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Garmin AT**
 Specification: **FCC 15.247 (d) (FCC 15.205 restricted band)**
 Work Order #: **86612** Date: 1/10/2008
 Test Type: **Radiated Scan** Time: 15:38:11
 Equipment: **Remote control** Sequence#: 31
 Manufacturer: **Garmin AT** Tested By: E. Wong
 Model: **GRC10**
 S/N: **14R000412**

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Bilog Antenna	2451	02/02/2006	02/02/2008	01995
Pre amp to SA Cable	Cable #10	05/16/2007	05/16/2009	P05050
Cable	Cable15	01/05/2007	01/05/2009	P05198
Pre Amp	1937A02548	06/01/2006	06/01/2008	00309
Horn Antenna	6246	06/29/2006	06/29/2008	00849
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
HeliAx Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
18-26GHz Horn	3643A00027	11/27/2006	11/27/2008	02112
Loop Antenna	2014	06/14/2006	06/14/2008	00314
3.0 GHz HPF	1	03/08/2006	03/08/2008	02744
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Remote control*	Garmin AT	GRC10	14R000412

Support Devices:

Function	Manufacturer	Model #	S/N
Remote Transceiver	Garmin AT	GRT10	Interrogator 14Q000339

Test Conditions / Notes:

The EUT is placed on the wooden table with 10 cm of Styrofoam material. The EUT receives RF commands from remote interrogator, set up transmit frequencies, transmits at max power and executes test routine. Non functional Mini USB port is left unpopulated. Frequency range 2402.8 – 2412 MHz. Mode: Transmit. Modulation: GFSK Frequency: 2407.7 MHz (CH8). Frequency range of measurement = 9 kHz - 25 GHz. Frequency 9 kHz - 150 kHz RBW=200 Hz, VBW=200 Hz; 150 kHz - 30 MHz RBW=9 kHz, VBW=9 kHz; 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 25,000 MHz RBW=1 MHz, VBW=1 MHz. The emission profile of all three orthogonal orientations was investigated. GRC: worse case is EUT placed up right. 3V (new battery), 23°C, 49% relative humidity. Note: SAW filter installed.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509
T5=Pre amp 1- 26GHz 071908	T6=54' Heliac Cable 091808 P05565
T7=Horn 00849_062908	T8=Filter 3GHz HPF AN02744
T9=Hi Freq_40GHz_2ft-ANP02948-091809	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	Reading listed by margin.				Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
			T1 T5 T9 dB	T2 T6 dB	T3 T7 dB	T4 T8 dB					
1	4815.770M	44.7	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	47.7	54.0 Flat	-6.3	Horiz
2	4815.483M Ave	41.1	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	42.6	54.0 upright	-11.4	Vert
^	4815.483M	47.0	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	48.5	54.0 upright	-5.5	Vert
4	4815.767M Ave	40.8	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	42.3	54.0 flat	-11.7	Vert
5	4815.483M Ave	40.5	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	42.0	54.0 upright	-12.0	Horiz
6	4815.783M Ave	38.0	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	41.0	54.0 Up right	-13.0	Vert
^	4815.767M	47.5	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	49.0	54.0 flat	-5.0	Vert
^	4815.783M	45.7	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	48.7	54.0 Up right	-5.3	Vert
^	4815.750M	43.0	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	46.0	54.0 Flat	-8.0	Vert
10	4815.483M Ave	39.5	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	41.0	54.0 flat	-13.0	Horiz
11	4815.633M Ave	34.7	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	37.7	54.0 Up right	-16.3	Horiz
^	4815.633M	43.8	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	46.8	54.0 Up right	-7.2	Horiz
13	4815.750M Ave	33.8	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	36.8	54.0 Flat	-17.2	Vert

14	4815.483M Ave	33.7	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	36.7	54.0 Flat	-17.3	Horiz
^	4815.483M	46.4	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	47.9	54.0 upright	-6.1	Horiz
^	4815.467M	45.3	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	46.8	54.0 flat	-7.2	Horiz
17	7223.500M	51.9	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.7	+0.0 +2.7	+0.0	59.9	80.0 Up right	-20.1	Horiz
18	7223.220M	51.7	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.7	+0.0 +2.7	+0.0	59.7	80.0 Flat	-20.3	Horiz
19	249.950M	37.2	-27.7 +0.0 +0.0	+12.5 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	25.2	46.0	-20.8	Horiz
20	7223.370M	51.0	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.7	+0.0 +2.7	+0.0	59.0	80.0 Up right	-21.0	Vert
21	386.000M	31.6	-27.7 +0.0 +0.0	+15.5 +0.0	+0.4 +0.0	+3.6 +0.0	+0.0	23.4	46.0	-22.6	Vert
22	9631.130M	43.9	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.9	+0.0 +3.3	+0.0	57.2	80.0 Flat	-22.8	Horiz
23	9631.000M	43.7	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.9	+0.0 +3.3	+0.0	57.0	80.0 Up right	-23.0	Horiz
24	7223.400M	47.1	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.7	+0.0 +2.7	+0.0	55.1	80.0 Flat	-24.9	Vert
25	7223.167M	47.6	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.7	+0.0 +0.1	+0.0	53.5	80.0 upright	-26.5	Horiz
26	7223.183M	47.1	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.7	+0.0 +0.1	+0.0	53.0	80.0 upright	-27.0	Vert
27	7223.467M	46.9	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.7	+0.0 +0.1	+0.0	52.8	80.0 flat	-27.2	Vert
28	9631.000M	37.7	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.9	+0.0 +3.3	+0.0	51.0	80.0 Up right	-29.0	Vert
29	7223.167M	45.0	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.7	+0.0 +0.1	+0.0	50.9	80.0 flat	-29.1	Horiz
30	9631.320M	36.6	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.9	+0.0 +3.3	+0.0	49.9	80.0 Flat	-30.1	Vert

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Garmin AT**
 Specification: **FCC 15.247 (d) (FCC 15.205 restricted band)**
 Work Order #: **86612** Date: 1/10/2008
 Test Type: **Radiated Scan** Time: 15:53:17
 Equipment: **Remote control** Sequence#: 32
 Manufacturer: **Garmin AT** Tested By: E. Wong
 Model: **GRC10**
 S/N: **14R000412**

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Bilog Antenna	2451	02/02/2006	02/02/2008	01995
Pre amp to SA Cable	Cable #10	05/16/2007	05/16/2009	P05050
Cable	Cable15	01/05/2007	01/05/2009	P05198
Pre Amp	1937A02548	06/01/2006	06/01/2008	00309
Horn Antenna	6246	06/29/2006	06/29/2008	00849
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
HeliAx Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
18-26GHz Horn	3643A00027	11/27/2006	11/27/2008	02112
Loop Antenna	2014	06/14/2006	06/14/2008	00314
3.0 GHz HPF	1	03/08/2006	03/08/2008	02744
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Remote control*	Garmin AT	GRC10	14R000412

Support Devices:

Function	Manufacturer	Model #	S/N
Remote Transceiver	Garmin AT	GRT10	Interrogator 14Q000339

Test Conditions / Notes:

The EUT is placed on the wooden table with 10 cm of Styrofoam material. The EUT receives RF commands from remote interrogator, set up transmit frequencies, transmits at max power and executes test routine. Non functional Mini USB port is left unpopulated. Frequency range 2402.8 – 2412 MHz. Mode: Transmit. Modulation : GFSK Frequency: 2411.7 MHz (CH12). Frequency range of measurement = 9 kHz - 25 GHz. Frequency 9 kHz - 150 kHz RBW=200 Hz, VBW=200 Hz; 150 kHz - 30 MHz RBW=9 kHz, VBW=9 kHz; 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 25,000 MHz RBW=1 MHz, VBW=1 MHz. The emission profile of all three orthogonal orientations was investigated. GRC: worse case is EUT placed up right. 3V (new battery), 23°C, 49% relative humidity. Note: SAW filter installed.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509
T5=Pre amp 1- 26GHz 071908	T6=54' Heliac Cable 091808 P05565
T7=Horn 00849_062908	T8=Filter 3GHz HPF AN02744
T9=Hi Freq_40GHz_2ft-ANP02948-091809	

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	4823.617M	41.7	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	43.2	54.0 flat	-10.8	Vert
^	4823.617M	47.1	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	48.6	54.0 flat	-5.4	Vert
^	4823.617M	46.7	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	48.2	54.0 upright	-5.8	Vert
^	4823.617M	46.5	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	48.0	54.0 upright	-6.0	Vert
^	4823.550M	41.8	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	44.8	54.0 Flat	-9.2	Vert
6	4823.617M	40.7	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	42.2	54.0 flat	-11.8	Horiz
^	4823.617M	46.5	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	48.0	54.0 flat	-6.0	Horiz
^	4823.620M	42.9	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	45.9	54.0 Flat	-8.1	Horiz
^	4823.620M	40.8	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	43.8	54.0 Up right	-10.2	Horiz
10	4823.617M	40.0	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	41.5	54.0 upright	-12.5	Vert
11	4823.617M	39.5	+0.0 -37.7 +0.5	+0.0 +5.3	+0.0 +33.1	+0.0 +0.3	+0.0	41.0	54.0 upright	-13.0	Vert
12	4823.817M	37.2	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	40.2	54.0 Up right	-13.8	Vert
^	4823.817M	46.5	+0.0 -37.7 +0.0	+0.0 +5.3	+0.0 +33.1	+0.0 +2.0	+0.0	49.5	54.0 Up right	-4.5	Vert

14	952.680M	24.7	-27.1 +0.0 +0.0	+24.7 +0.0	+0.7 +0.0	+6.1 +0.0	+0.0	29.1	46.0	-16.9	Horiz
15	7235.350M	52.9	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.8	+0.0 +2.8	+0.0	61.1	80.0 Up right	-18.9	Vert
16	7235.350M	51.7	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.8	+0.0 +2.8	+0.0	59.9	80.0 Flat	-20.1	Horiz
17	7235.350M	50.0	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.8	+0.0 +2.8	+0.0	58.2	80.0 Up right	-21.8	Horiz
18	9647.080M	41.6	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.9	+0.0 +3.3	+0.0	54.9	80.0 Up right	-25.1	Vert
19	7235.280M	46.0	+0.0 -37.2 +0.0	+0.0 +6.7	+0.0 +35.8	+0.0 +2.8	+0.0	54.2	80.0 Flat	-25.8	Vert
20	9647.080M	40.8	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.9	+0.0 +3.3	+0.0	54.1	80.0 Flat	-25.9	Horiz
21	9647.080M	40.4	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.9	+0.0 +3.3	+0.0	53.7	80.0 Up right	-26.3	Horiz
22	270.592M	30.3	-27.7 +0.0 +0.0	+12.8 +0.0	+0.3 +0.0	+3.0 +0.0	+0.0	18.7	46.0	-27.3	Vert
23	7235.317M	46.5	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.8	+0.0 +0.1	+0.0	52.5	80.0 upright	-27.5	Vert
24	7235.317M	46.2	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.8	+0.0 +0.1	+0.0	52.2	80.0 flat	-27.8	Vert
25	7235.317M	45.4	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.8	+0.0 +0.1	+0.0	51.4	80.0 upright	-28.6	Vert
26	9647.020M	37.8	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.9	+0.0 +3.3	+0.0	51.1	80.0 Flat	-28.9	Vert
27	9647.020M	37.7	+0.0 -36.2 +0.0	+0.0 +8.0	+0.0 +37.9	+0.0 +3.3	+0.0	51.0	80.0 Flat	-29.0	Vert
28	7235.317M	43.0	+0.0 -37.2 +0.6	+0.0 +6.7	+0.0 +35.8	+0.0 +0.1	+0.0	49.0	80.0 flat	-31.0	Horiz

FCC 15.247(e) POWER SPECTRAL DENSITY

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02111	HP	8593EM	3624A00159	3/23/07	3/23/09
Coax	P01527	Unknown	12" long	N/A	5/16/07	5/16/09

Test Conditions: Each channel was selected using the laptop computer to select the test mode, frequency/channel, and constant transmit mode of the GRC-10 by programming the interrogator that in-turn sent the commands via RF to the hand held. Resolution BW was set to 3 kHz and the Video BW was set to 10 kHz for these readings. The frequency span was set to capture the entire signal. Frequency range was: 2402.8 – 2412 MHz. Mode:Transmit. Modulation: GFSK

Test Setup Photos





Test Results

Handheld Remote: GRC10 P/N: 011-01558-00 S/N:14R000416

Channel	Frequency (GHz)	Peak Power Density Reading (dBm)	P01527 Cable Loss (dB)	Peak Power Density Corrected Reading (dBm)
3	2.402858	-4.10	0.4	- 4.06
8	2.407860	-3.44	0.4	- 3.40
12	2.412130	-3.25	0.4	- 3.21

Tested by: Chuck Kendall

BANDEDGE COMPLIANCE

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02672	Agilent	E4446A	US44300438	010307	010309
Horn Antenna	00849	EMCO	3115	6246	062906	062908
Microwave Pre-amp	00786	HP	83017A	3123A00281	071906	071908
Heliac Antenna cable	P05565	Andrew	LDF1-50	P5565	091806	091808
24" SMA Cable (White)	P05183	Pasterneck	35591-48	1-40GHz_white	011107	011109

Test Conditions

The EUT is placed on the wooden table with 10 cm of Styrofoam material. The EUT receives a RF command from a remote interrogator and then the EUT sets the transmitting frequency that it operates on. EUT transmits at max power and executes a test routine. Non-functional mini USB port is left unpopulated.

Mode: Transmit

Modulation: GFSK

Freq: 2403 MHz (ch 3), 2408 MHz (ch 8) and 2412 MHz (ch 12)

The emission profile of all three orthogonal orientations was investigated.

GRC 10: worst case is EUT placed up right.

3 V (new battery), 23°C and 49% relative humidity.

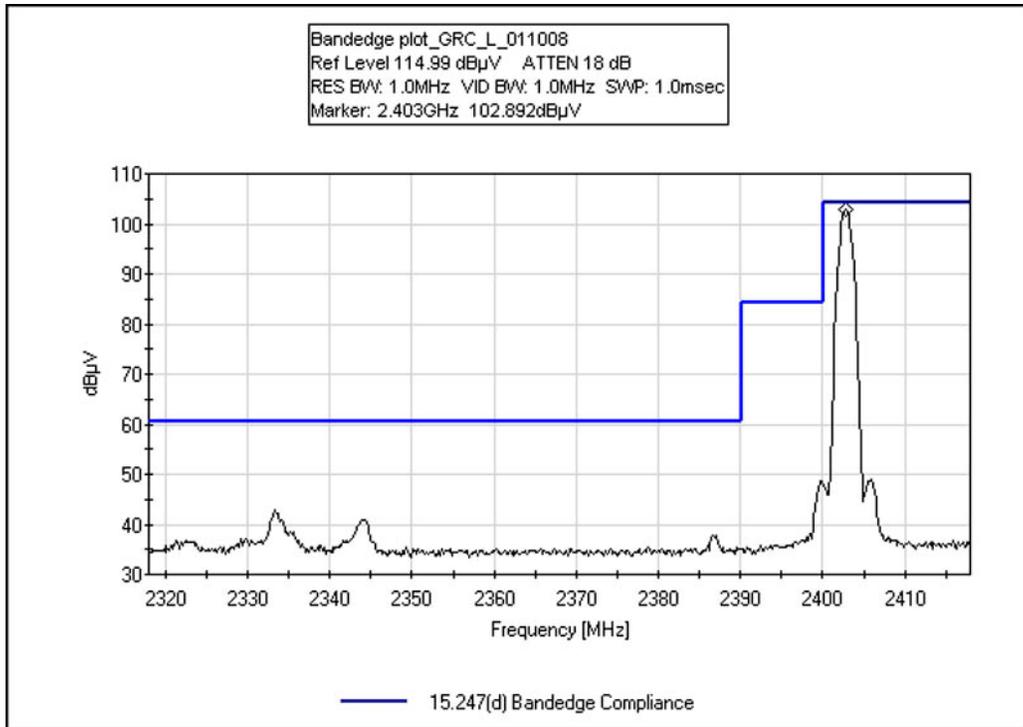
Note: Serial number 14R000412 tested.

Test Setup Photos

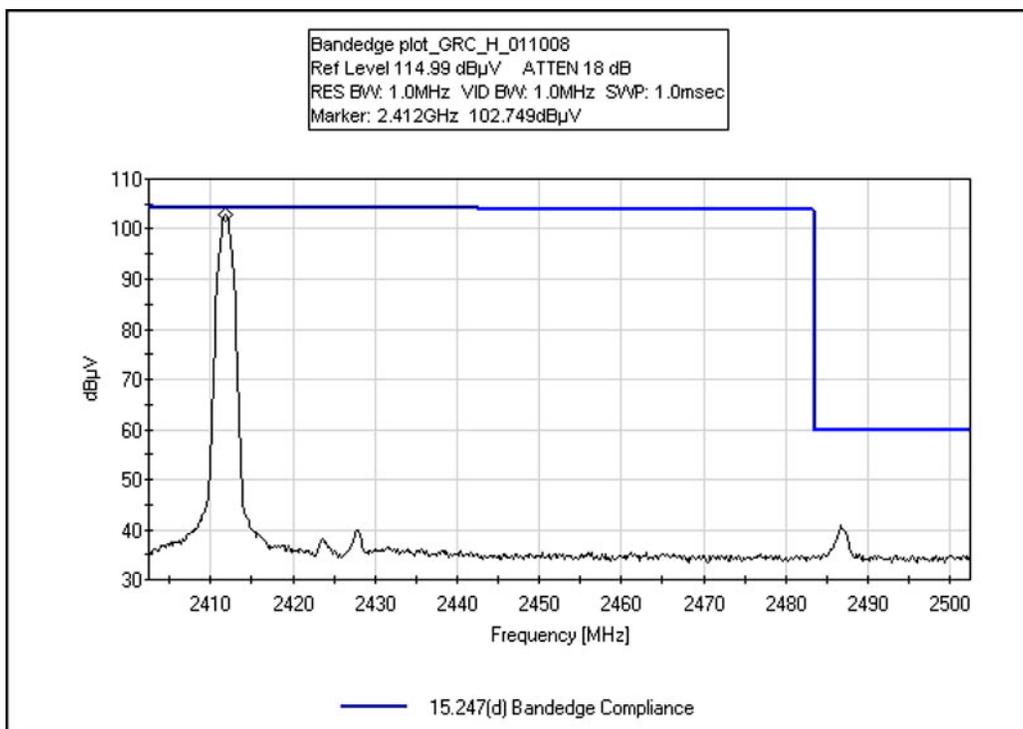




Bandedge Compliance - Low



Bandedge Compliance - High



RSS 210 - 99% BANDWIDTH PLOTS

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02672	Agilent	E4446A	US44300438	010307	010309
Horn Antenna	00849	EMCO	3115	6246	062906	062908
Microwave Pre-amp	00786	HP	83017A	3123A00281	071906	071908
Heliac Antenna cable	P05565	Andrew	LDF1-50	P5565	091806	091808
24" SMA Cable (White)	P05183	Pasterneck	35591-48	1-40GHz_white	011107	011109

Test Conditions

The EUT is placed on the wooden table with 10 cm of Styrofoam material. The EUT receives a RF command from a remote interrogator and then the EUT sets the transmitting frequency that it operates on. EUT transmits at max power and executes a test routine. Non-functional mini USB port is left unpopulated.

Mode: Transmit

Modulation: GFSK

Freq: 2403 MHz (ch 3), 2408 MHz (ch 8) and 2412 MHz (ch 12)

The emission profile of all three orthogonal orientations was investigated.

GRC 10: worst case is EUT placed up right.

3 V (new battery), 23°C and 49% relative humidity.

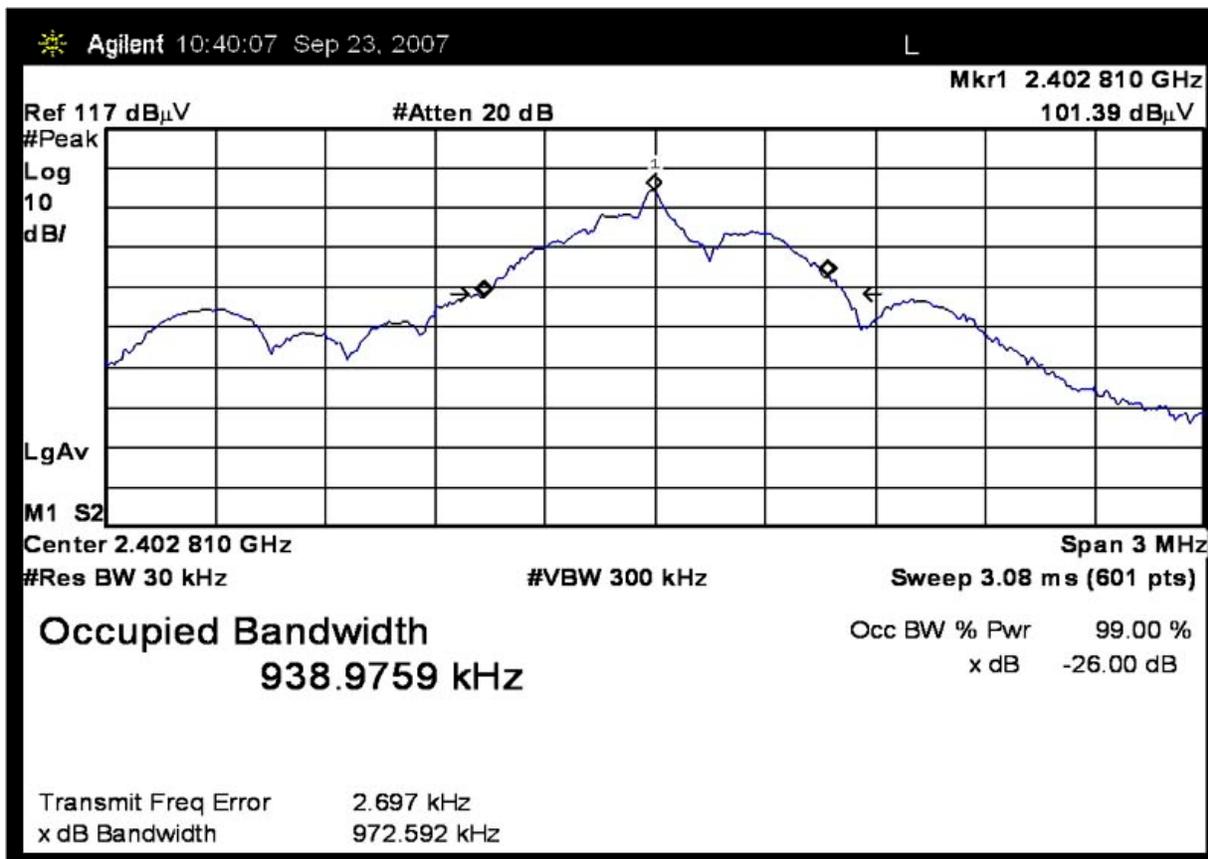
Note: Serial number 14R000450 tested.

Test Setup Photos

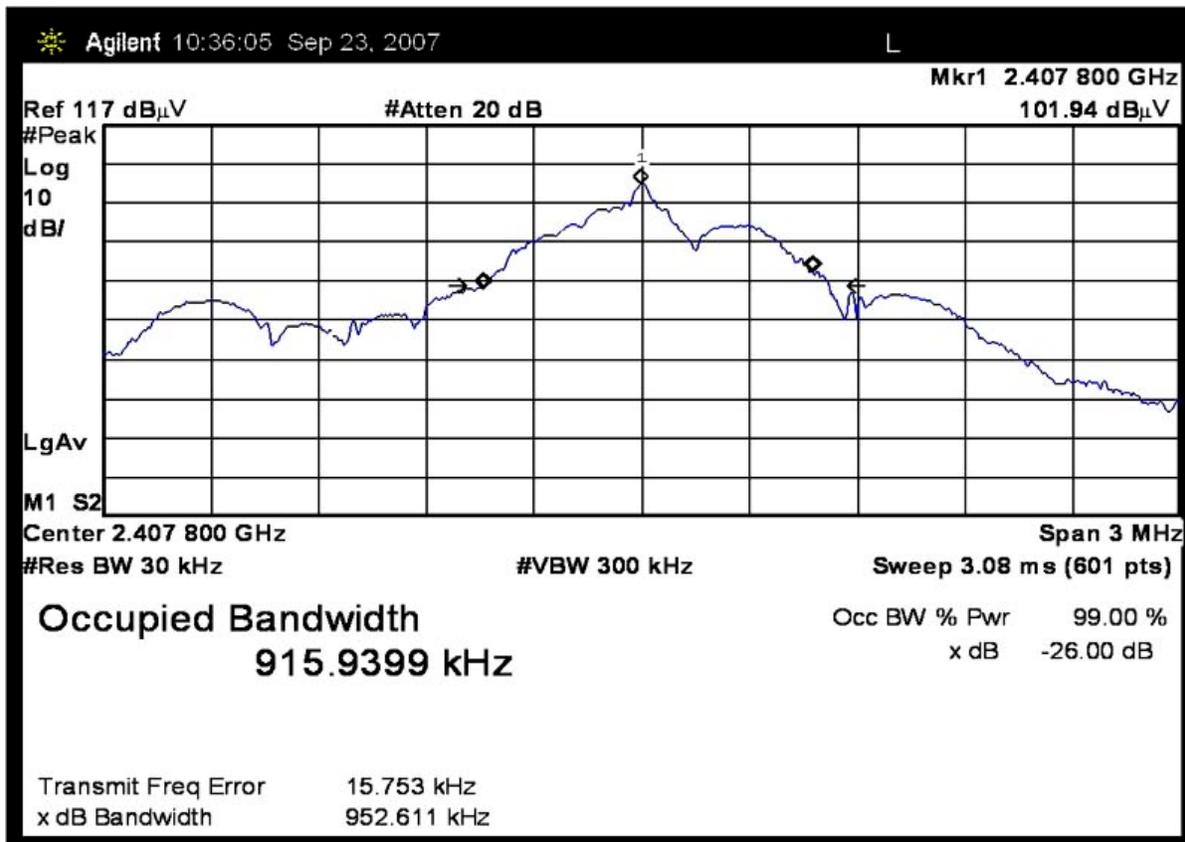




RSS 210 - 99% Bandwidth - Low



RSS 210 - 99% Bandwidth - Medium



RSS 210 - 99% Bandwidth - High

