TEST REPORT

Report Number: 3131957MPK-007
Project Number: 3131957
Report Date: August 31, 2007

Testing performed on the
Patient Remote Control
Model #: SC-5212

FCC ID: Q4D-PSC5210W

to

FCC Part 15.209 and RSS-210 (sec 2.6)

for
Advanced Bionics Corporation

A2LA Certificate Number: 1755-01

Test Performed by:	**Test Authorized by:**
Intertek Testing Services NA, Inc	Advanced Bionics Corporation
1365 Adams Court	12740 San Fernando Road
Menlo Park, CA 94025	Sylmar, CA 91342

Prepared by: _____ **Date:** August 31, 2007
Suresh Kondapalli

Reviewed by: _____ **Date:** August 31, 2007
David Chernomordik

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Report No. 3131957MPK-002

Equipment Under Test:	Patient Remote Control with Radio Module
Trade Name:	Advanced Bionics Corporation
Model No.:	SC-5212
FCC ID:	Q4D-PSC5210W
Applicant:	Advanced Bionics Corporation
Contact:	Mr. Miguel A. Arrizon
Address:	12740 San Fernando Road Sylmar, CA 91342
Country	USA
Tel. Number:	661-362-4731
Fax number:	661-362-1511
Email:	Miguel.arrizon@advanedbionics.com
Applicable Regulation:	FCC Part 15, Subpart C RSS-210 sec. 2.6
Test Site Location:	ITS – Site 1 1365 Adams Drive Menlo Park, CA 94025
Date of Test:	August 28- 31, 2007

We attest to the accuracy of this report:

Suresh Kondapalli	David Chernomordik
EMC Team Leader	EMC Technical Manager

TABLE OF CONTENTS

1.0 Introduction

The Equipment Under Test (EUT) is a Patient Remote Control works in-conjunction with Implantable Pulse Generator (IPG) Model SC-1110. Remote control communicates with the implant through a RF telemetry link up to two feet.

1.1 Summary of Tests

TEST	REFERENCE FCC Subpart C	REFERENCE RSS-210	RESULTS
Field Strength	15.209	2.6	Complies
AC Conducted Emission	15.207	RSS-Gen	Not Applicable *
Occupied Bandwidth	-	RSS-Gen	Complies
Antenna Requirement	15.203	RSS-Gen	Complies

* The EUT is battery powered

2.0 General Description

2.1 Product Description

Overview of the Radio module

Frequency Range	125 KHz
Rated RF Output	N/A
Number of Channel(s)	1
Modulation Type	FSK
Antenna(s) type & Gain	Loop (coil) antenna

A production version of the sample was received on August 27, 2007 in good condition. As declared by the Applicant, it is identical to production units.

Test start date: August 27, 2007
Test end date: August 31, 2007

2.2 Related Submittal(s) Grants

2.3 Test Methodology

Radiated emissions measurements were performed according to the procedures in ANSI C63.4 (2003). Radiated tests were performed at an antenna to EUT distance of 10 meters, unless stated otherwise in the **"Data Sheet"** of this Application.

2.4 Test Facility

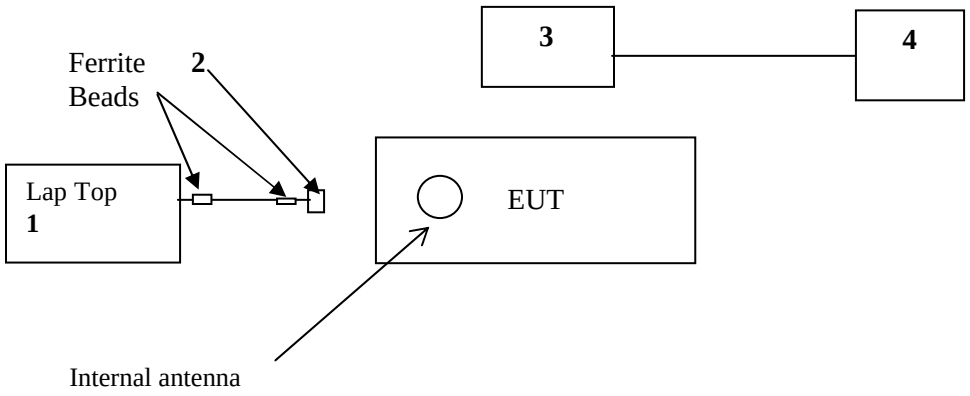
Then radiated emission test site and conducted measurement facility used to collect the data is site 1 located in Menlo Park, California. This test facility and site measurement data have been fully placed on file with the FCC.

3.0 System Test Configuration

3.1 Support Equipment

Item #	Description	Model No.	S/N
1	Toshiba Lap top	Portege M200	15028139H
2	IR Link Device	ACT-IR 220 Plus	15404
3	Advanced Bionics Implant simulator	Precision Simulator II	2820
4	Resistor Network	None	Not Labeled

3.2 Block Diagram of Test Setup



3.3 Software Exercise Program

During radiated testing, the test software provided by the applicant was used to exercise the various system components in a manner similar to a typical use.

3.4 Mode of Operation During Test

The EUT was transmitting at 125.0 kHz.

3.5 Modifications Required for Compliance

No modifications were installed by Intertek Testing Services during compliance testing in order to bring the product into compliance (Please note that this list does not include changes made specifically by Advanced Bionics prior to compliance testing).

4.0 Measurement Results

4.1 Requirement

The emissions shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100	3
88–216	150	3
216–960	200	3
Above 960	500	3

The level of any unwanted emissions shall not exceed the level of the fundamental emission.

4.2 Procedure

For radiated emission measurements the EUT is placed on a non-conductive table. The signal is maximized through rotation and placement in the three orthogonal axes.

The EUT is attached to peripherals and they are connected and operational (as typical as possible). The EUT is wired to transmit full power. During testing, all cables are manipulated to produce worst-case emissions.

For measurements below 30 MHz, a loop antenna is placed at 1 m height above the ground plane. For measurements above 30 MHz, the antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations. When performing measurements at a closer distance than specified, the results are extrapolated to the specified distance using the square of an inverse linear distance extrapolation factor (40 dB/decade).

At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified. When performing measurements at a distance other than that specified, the results are extrapolated to the specified distance using the inverse linear distance extrapolation factor (20 dB/decade).

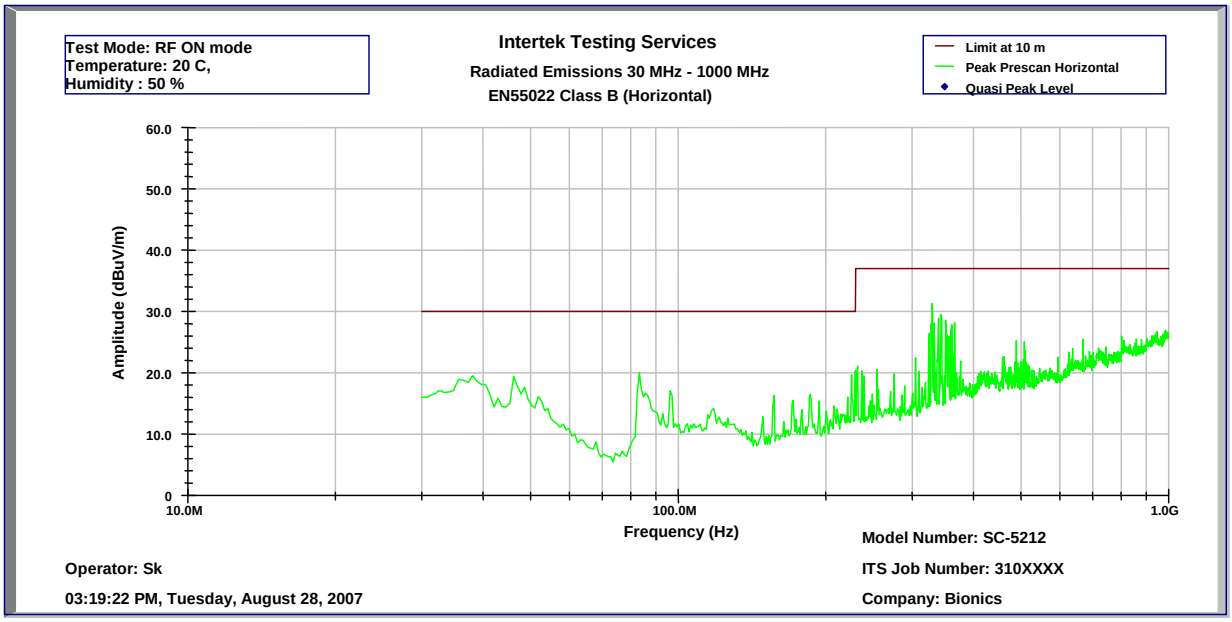
4.3 Test Result

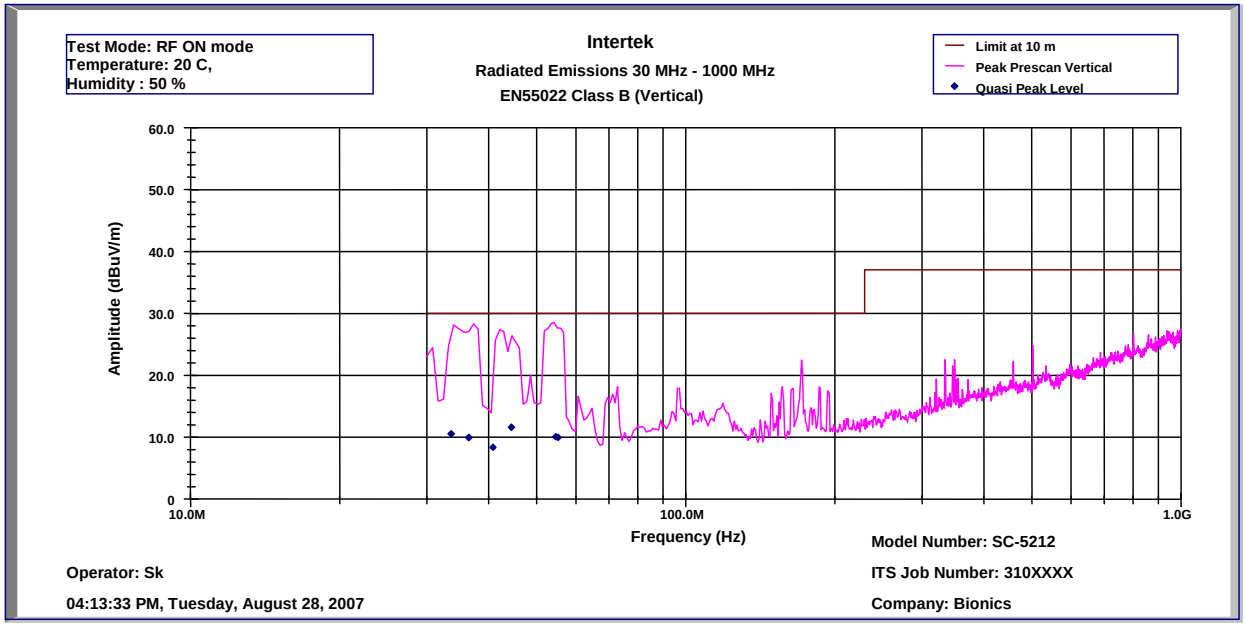
Measurement results for frequencies below 30 MHz

Freq.	SA Reading	Distance	E AF	Amplifier Gain	E Field	Distance correction Factor	E Field at specified distance	Limit at specified distance	Margin
kHz	dB(uV)	m	dB(1/m)	dB	dB(uV/m)	dB	dB(uV/m)	dB(uV/m)	dB
125	52.0	3	64.0	25	91.0	-80	11.0	25.7	-14.7
250	15.6	3	58.0	25	48.6	-80	-31.4	19.6	-51.0
375	16.6	3	55.0	25	46.6	-80	-33.4	16.1	-49.5
500	15.5	3	52.3	25	42.8	-40	2.8	33.6	-30.8
625	11.9	3	51.0	25	37.9	-40	-2.1	31.7	-33.8
750	11.9	3	48.0	25	34.9	-40	-5.1	30.1	-35.2
875	12.4	3	47.2	25	34.6	-40	-5.4	28.8	-34.2
1000	15.9	3	46.6	25	37.5	-40	-2.5	27.6	-30.1
1125	14.9	3	46.0	25	35.9	-40	-4.1	26.6	-30.7
1250	14.1	3	45.5	25	34.6	-40	-5.4	25.7	-31.1

E AF is E-field Antenna Factor

Measurement result for frequencies above 30 MHz





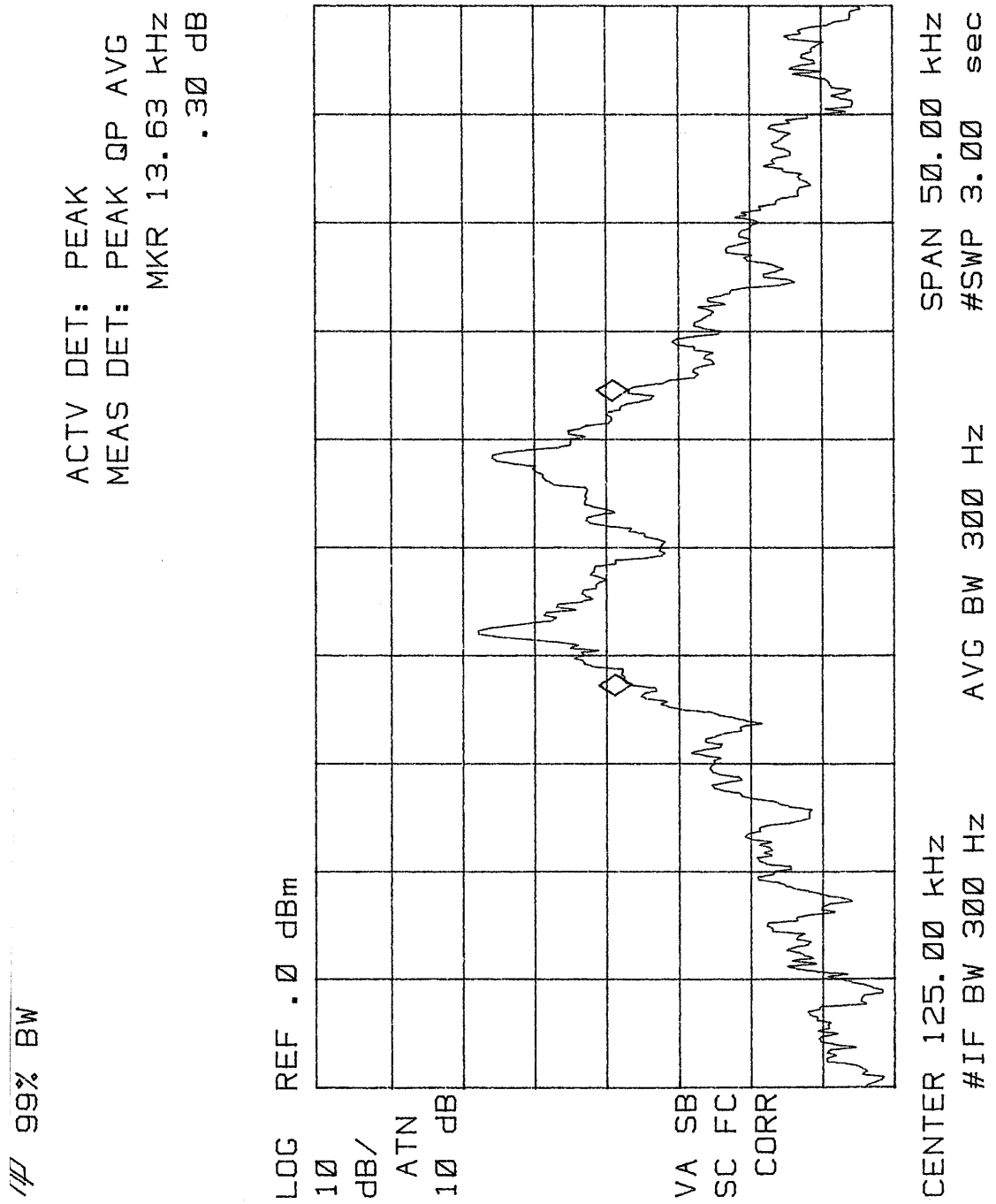
* According to FCC 15.109(g), the CISPR 22 (EN55022) Limit is used.

Intertek							
Radiated Emissions 30 MHz - 1000 MHz							
EN55022 Class B (QP-Vertical)							
Operator: Sk				Model Number: SC-5212			
ITS Job Number: 310XXXX							
04:13:33 PM, Tuesday, August 28, 2007				Company: Advanced Bionics			
Frequency	Quasi Pk FS	Limit@10m	Margin	RA	CF	AG	AF
MHz	dB(uV/m)	dB(uV/m) *	dB	dB(uV)	dB	dB	dB(1/m)
33.6	10.5	30	-19.5	17.5	3.7	27.3	16.6
36.5	9.9	30	-20.1	17.5	3.7	27.3	16.0
40.8	8.4	30	-21.6	16.5	3.8	27.3	15.3
44.5	11.6	30	-18.4	20.2	3.8	27.3	14.9
54.7	10.1	30	-19.9	21.8	3.9	27.3	11.6
55.3	10.0	30	-20.0	21.9	3.9	27.3	11.5
Test Mode: RF ON mode							
Temperature: 20 C,							
Humidity : 50 %							

* According to FCC 15.109(g), the CISPR 22 (EN55022) Limit is used.

Results:	**Complies** by 18.4 dB

Occupied Bandwidth



Emission Designator: 13K6FXD

5.0 List of test equipment

Measurement equipment used for emission compliance testing utilized the equipment on the following list:

Equipment	Manufacturer	Model/Type	Serial #	Cal Int	Cal Due
RF Filter Section	Hewlett Packard	85460A	3448A00267	12	9/11/07
EMI Receiver	Hewlett Packard	8546A	3710A00373	12	9/11/07
BI-Log Antenna	ARA Inc.	LPB-2513/A	1154	12	8/29/07
Pre-Amplifier	HP	8447D	2944A09519	12	6/20/08
Loop Antenna	EMCO	6512	1023	12	3/9/08

6.0 Document History

Revision/ Job Number	Writer Initials	Date	Change
1.0 / 3131957	SK	August 31, 2007	Original document