

**COMPLIANCE WORLDWIDE INC.
TEST REPORT 143-08R2**

In Accordance with the Requirements of
Industry Canada RSS 210, Issue 7
Federal Communications Commission CFR Title 47 Part 15.249, Subpart C
Low Power License-Exempt Radio Communication Devices
Intentional Radiators

Issued to


**Philips Medical Systems
3000 Minuteman Drive
Andover, MA 01810
Tel: (978) 659-2800**

for

**Model M3815B
Home Blood Pressure Monitor**

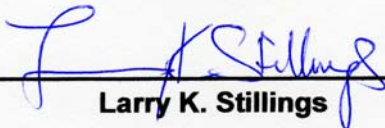
**FCC ID: PQCM3815B
IC: 3549B-M3815B**

Report Issued on July 17, 2008



Brian F. Breault

Reviewed By



Larry K. Stillings

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1. Scope

This test report certifies that the Philips Medical Systems Model M3815B Home Blood Pressure Monitor, as tested, meets the FCC Part 15, Subpart C and Industry Canada RSS 210, Issue 7 requirements. The scope of this test report is limited to the test sample provided by the client, only in as much as that sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required. Original report issued 4/11/08. R1 report issued 7/11/08 includes Industry Canada information. R2 report includes Radiated Harmonics Peak data.

2. Product Details

2.1. Manufacturer: Philips Medical Systems

2.2. Model Number: M3815B

2.3. Serial Number: 5030802944

2.4. Description: The M3815B is the next generation of Blood Pressure Unit for Patient Telemedicine System (aka eCare). The M3815B is an OEM unit from AND technologies, model number (UA-787) which will be Philips branded. The new Blood Pressure Unit is designed to correct previous design issues inherent with the AND's UA-767 (Philips branded as M3815A). The M3815B is designed to present a cost reduction solution for PTS. The M3815B will now allow for the use of small cuffs to accommodate arm sizes (16-24 cm.) as well as medium and large cuffs which were previously utilized on the M3815A. Additionally, the M3815B will be able to provide accurate blood pressure and pulse rate measurements even in the event of irregular heart intervals (mild arrhythmia). Lastly, the M3815B will utilize an electronic "bleed rate" thereby eliminating some variation in the rate of air released from the cuffs during blood pressure measurements while attached to the M3815B.

2.5. Power Source: 6 Volts DC (4 x AA batteries)

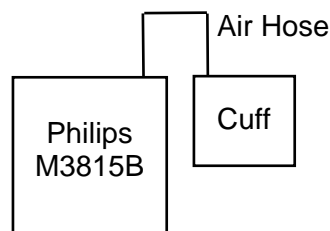
2.6. EMC Modifications: None

3. Product Configuration

3.1. Operational Characteristics & Software

For all measurements, the test sample Philips Medical Systems Model M3815B was forced into a full-time transmit mode.

3.2. Block Diagram



4. Measurements Parameters

4.1. Measurement Equipment Used to Perform Test

Device	Manufacturer	Model No.	Serial No.	Cal Due
Spectrum Analyzer	Hewlett Packard	8593E	3829A03887	3/07/2009
EMI Receiver	Hewlett Packard	8546A	3650A00360	3/14/2009
Bilog Antenna	Com-Power	AC220	25509	8/3/2008
Horn Antenna	Electro-Metrics	EM-6961	6337	8/24/2008

4.2. Measurement & Equipment Setup

Test Date: 3/19/2008
 Test Engineer: Larry Stillings
 Normal Site Temperature (15 - 35°C): 21.6
 Relative Humidity (20 -75%RH): 35
 Frequency Range: 30 MHz to 9.6 GHz
 Measurement Distance: 3 Meters
 EMI Receiver IF Bandwidth: 100 kHz - 30 MHz to 1 GHz
 1 MHz - Above 1 GHz
 EMI Receiver Avg Bandwidth: 300 kHz - 30 MHz to 1 GHz
 3 MHz - Above 1 GHz
 Detector Function: Peak, Quasi-Peak & Average

4.3. Measurement Procedure

Test measurements were made in accordance FCC Part 15.249, IC RSS-210 Annex II: Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

The test methods used to generate the data is this test report is in accordance with ANSI C63.4: 2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

In accordance with ANSI C63.4-2003, section 13.1.4.1, c), the device under test was rotated through three orthogonal axes to determine which attitude produced the highest emission relative to the limit. The attitude that produced the highest emission relative to the limit was used for all radiated emission measurements.

5. Measurement Summary

Test Requirement	FCC Rule Requirement	Test Report Section	Result	Comment
Antenna Requirement	15.203	N.A	Compliant	Unit has an internal PCB antenna.
Radiated Field Strength of Fundamental	15.249 (a)	6.1	Compliant	
Radiated Field Strength of Harmonics	15.249 (a)	6.2	Compliant	
Occupied Bandwidth	IC RSS-GEN	6.3	Compliant	
99% Bandwidth	IC RSS-GEN	6.4	Compliant	
Band Edge Measurements	15.249 (d), 15.209	6.5	Compliant	
Spurious Radiated Emissions	15.249 (d), 15.209	6.6	Compliant	No measurable spurious emissions.

6. Measurement Data

6.1. Radiated Field Strength of Fundamental (15.249, Section (a)), IC RSS-210 A2.9

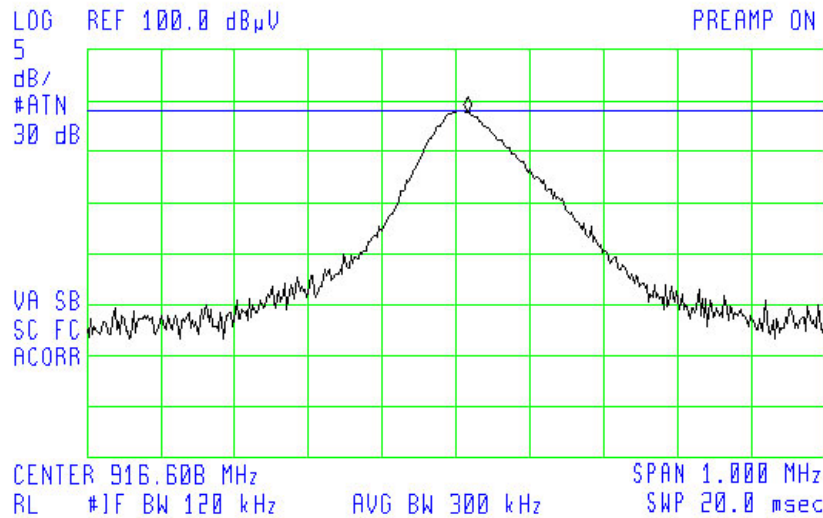
Requirement: The 3 meter field strength of the fundamental emissions from intentional radiators operated within the 902-928 MHz frequency bands shall comply with the following requirement: 50 millivolts/meter (94 dB μ V/m), quasi-peak mode measurement.

Frequency (MHz)	Amplitude (dB μ V/m)		Q-Peak Limit	Margin (dB)	Ant Pol	Ant Ht	TT Pos	Result
	Peak	Q-Peak						
916.6	94.7	93.4	94.0	-0.6	H	110	338	Passed

6.1.1. Radiated Field Strength of Fundamental

13:53:21 MAR 19, 2008 PHILIPS MED M30100 #143-08
3-Meter Radiated Emissions, 30 - 1000 MHz, FCC B

FREQ 916.6 MHz
PEAK 94.7 dB μ V
QP 93.4 dB μ V
AVG NOT SELECTED



6. Measurement Data (continued)

6.2. Radiated Field Strength of Harmonics (15.249, Section (a)), IC RSS-210 A2.9

Requirement: The 3 meter field strength of the harmonic emissions from intentional radiators operated within the 902-928 MHz frequency bands shall comply with the following: 500 microvolts/meter (54 dBµV/m), average mode measurement. Peak field strength may not be greater than 20 dB above the average limit (74 dBµV/m).

Frequency (MHz)	Amplitude ¹ (dBµV Peak)	Peak Limit	Amplitude ¹ (dBµV Avg)	Average Limit	Margin (dB)	Ant Pol H/V	Ant Ht (cm)	TT Pos (Deg)	Result
1833.0	54.2	74	42.1	54	-11.9	V	104	170	Passed
2749.8 ²	51.9	74	37.5	54	-16.5	Noise Floor			Passed
3666.4 ²	55.8	74	40.6	54	-13.4	Noise Floor			Passed
4583.0 ²	57.3	74	44.7	54	-9.3	Noise Floor			Passed
5500.0 ²	60.2	74	47.3	54	-6.7	Noise Floor			Passed
6416.0	64.1	74	51.3	54	-2.7	Noise Floor			Passed
7332.8 ²	63.1	74	50.5	54	-3.5	Noise Floor			Passed
8249.4 ²	63.2	74	48.4	54	-5.6	Noise Floor			Passed
9166.0 ²	63.6	74	49.6	54	-4.4	Noise Floor			Passed

¹ Value includes all correction factors.

² Frequency falls within the restricted bands of operation. See FCC Part 15, Section 15.205 for additional information.

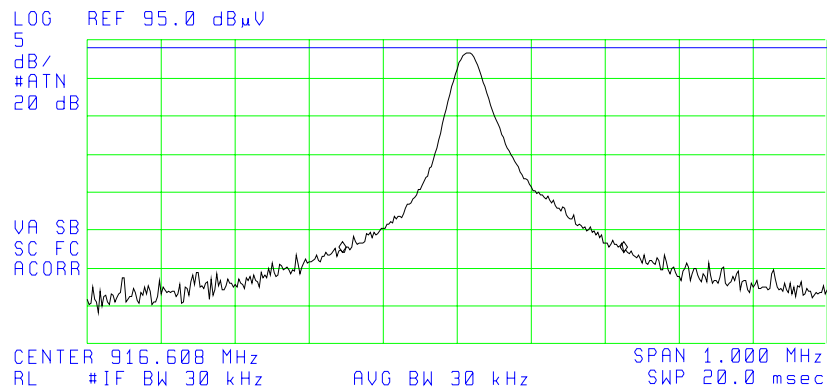
6. Measurement Data (continued)

6.3 Occupied (-26 dB) Bandwidth = 380 kHz

Requirement: The occupied bandwidth measurements on an intentional radiator shall be made in accordance with the requirements outlined in ANSI C63.4-2003, Section 13.1.7.

14:00:40 MAR 19 2008 26 dB BANDWIDTH
PHILIPS MED M3818B #143-08

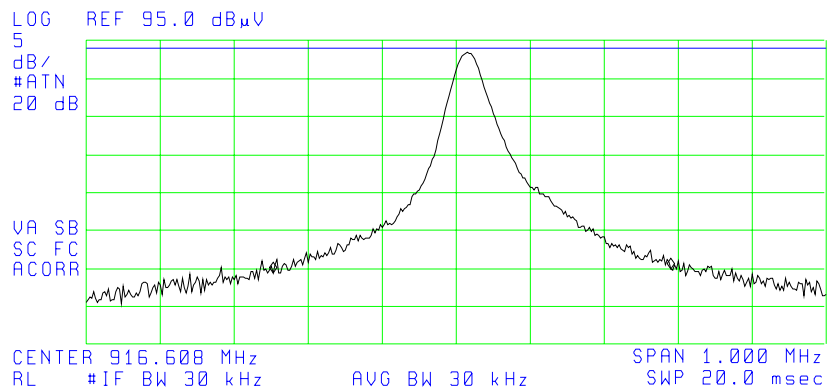
ACTV DET: PEAK
MEAS DET: PEAK QP
MKR Δ 380 kHz
.00 dB



6.4. 99% Bandwidth = 538 kHz

14:03:17 MAR 19 2008 99% BANDWIDTH
PHILIPS MED M3818B #143-08

ACTV DET: PEAK
MEAS DET: PEAK QP
MKR Δ 538 kHz
.58 dB



6. Measurement Data (continued)

6.5. Band Edge Measurements

Requirement: Emissions radiated outside of the specified frequency band of 902 MHz to 928 MHz, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Band Edge (dBµV/m)		Limit (dBµV/m)	Margin (dB)	Result
	Freq MHz	Q-Peak	Q-Peak	Deg	P/F
916.6	901.6	38.6	54	-15.4	Passed
	928.1	39.3	54	-14.7	Passed

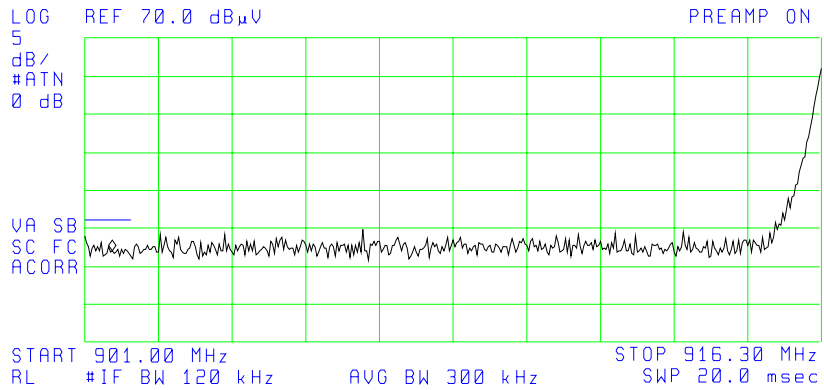
6. Measurement Data (continued)

6.5. Band Edge Measurements (continued)

6.5.1. Measurement Results – Lower Band Edge

14:10:29 MAR 19, 2008 LOWER BANDEDGE
PHILIPS MED M3B18B #143-08

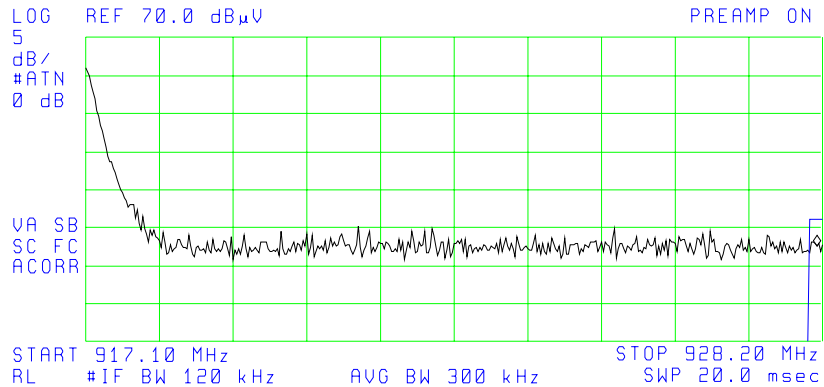
FREQ 901.6 MHz
PEAK 44.0 dBμV
QP 38.6 dBμV
AVG NOT SELECTED



6.5.2. Measurement Results – Upper Band Edge

14:13:33 MAR 19, 2008 UPPER BANDEDGE
PHILIPS MED M3B18B #143-08

FREQ 928.1 MHz
PEAK 44.6 dBμV
QP 39.3 dBμV
AVG NOT SELECTED



6. Measurement Data (continued)

6.6. Spurious Radiated Emissions, 30 MHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN

Requirement: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

6.6.1. Regulatory Limit: FCC Part 209, Quasi-Peak & Average

Frequency Range (MHz)	Distance (Meters)	Limit (dBµV/m)
30 to 88	3	40.0
88 to 216	3	43.5
216 to 960	3	46.0
Above 960	3	54.0

6.6.2. Measurement & Equipment Setup

Test Date: 3/28/2008
 Test Engineer: Brian Breault
 Site Temperature (°C): 21.0
 Relative Humidity (%RH): 36
 Frequency Range: 30 MHz to 1 GHz
 EMI Receiver IF Bandwidth : 120 kHz
 EMI Receiver Avg Bandwidth: 300 kHz
 Detector Functions: Peak and Quasi-Peak
 Frequency Range: 1 GHz to 10th Harmonic
 EMI Receiver IF Bandwidth : 1 MHz
 EMI Receiver Avg Bandwidth: 3 MHz
 Detector Functions: Peak and Average
 Antenna Height: 1 to 4 meters
 Measurement Distance: 3 Meters

6.6.3. Test Procedure

Test measurements were made in accordance with ANSI C63.4-2003, Standard Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronics Equipment in the Range of 9 kHz to 40 GHz.

6.6.4. Test Results

There were no measurable emissions except the emissions tabled in section 6.2.

7. Test Site Description

Compliance Worldwide is located at 357 Main Street in Sandown, New Hampshire. The test sites at Compliance Worldwide are used for conducted and radiated emissions testing in accordance with Federal Communications Commission (FCC) and Industry Canada standards. A description of the test sites is on file with the FCC (registration number **96392**) and Industry Canada (file number **IC 3023A-1**).

The radiated emissions test site is a 3 and 10 meter enclosed open area test site (OATS). Personnel, support equipment and test equipment are located in the basement beneath the OATS ground plane.

The conducted emissions site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical ground plane required by EN 55022.

Both sites are designed to test products or systems 1.5 meter W x 1.5 meter L x 2.0 meter H, floor standing or table top.