



**Medtronic Inc.
Acute Human Monitor
FCC 15.209:2012**

Report #: MDTR0202.1



Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – www.nwemc.com

California – Minnesota – Oregon – New York – Washington

CERTIFICATE OF TEST

Last Date of Test: December 21, 2012
 Medtronic Inc.
 Model: Acute Human Monitor

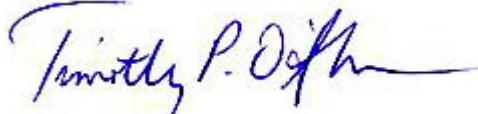
Emissions

Test Description	Specification	Test Method	Pass/Fail
Field Strength of Fundamental	FCC 15.209:2012	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.209:2012	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:



Tim O'Shea, Operations Manager



NVLAP Lab Code: 200881-0

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
 9349 W Broadway Ave.
 Brooklyn Park, MN 55445

Phone: (763) 425-2281 Fax: (763) 424-3469

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834E-1).

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

REVISION HISTORY

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

European Union

European Commission - Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

KCC / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI - Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA - Recognized by IDA as a CAB for the acceptance of test data.

Hong Kong

OFTA - Recognized by OFTA as a CAB for the acceptance of test data.

Vietnam

MIC - Recognized by MIC as a CAB for the acceptance of test data.

Russia

GOST - Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards.

SCOPE

For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/accreditations/>

Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty ($K=2$) for each test is on each data sheet. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-1 as applicable), and are available upon request.

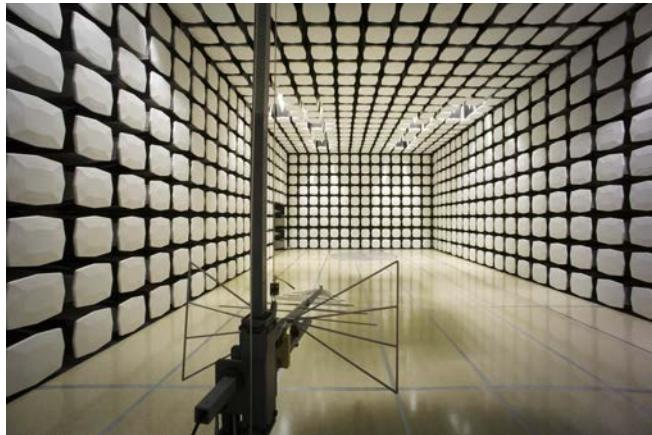
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy (Hz)	0.12	-0.01
Amplitude Accuracy (dB)	0.49	-0.49
Conducted Power (dB)	0.41	-0.41
Radiated Power via Substitution (dB)	0.69	-0.68
Temperature (degrees C)	0.81	-0.81
Humidity (% RH)	2.89	-2.89
Field Strength (dB)	4.00	-4.00
AC Powerline Conducted Emissions (dB)	2.70	-2.70

LOCATIONS



Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	California Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs WA01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Minnesota Labs MN01-08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Washington Labs NC01-05, SU02, SU07 19201 120 th Ave. NE Bothell, WA 98011 (425) 984-6600
VCCI				
A-0108	A-0029		A-0109	A-0110
Industry Canada				
2834D-1, 2834D-2	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1



Client and Equipment Under Test (EUT) Information

Company Name:	Medtronic Inc.
Address:	710 Medtronic Parkway, LS250
City, State, Zip:	Fridley, MN 55432
Test Requested By:	Jonathan Bruss
Model:	Acute Human Monitor
First Date of Test:	December 21, 2012
Last Date of Test:	December 21, 2012
Receipt Date of Samples:	December 21, 2012
Equipment Design Stage:	Prototype
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

The Sensor Optimization of Cardiac Resynchronization Therapy (CRT) Response (SOCR) Research System is used to acquire and record sensor signals during an acute human study specific protocol. The intended use of the system is for feasibility investigation of the use of impedance and/or heart sounds sensors to optimize CRT delivery. The study will be conducted in an acute setting (EP lab or operating room).

Clocks and Oscillators of the EUT:

32.768 kHz, 2.8 MHz

Testing Objective:

To demonstrate compliance to FCC requirements

Configuration MDTR0202- 1

Software/Firmware Running during test					
Description		Version			
SOCR for investigation use only software		None			
EUT					
Description	Manufacturer	Model/Part Number	Serial Number		
Acute Human Monitor	Medtronic Inc.	19061	R19061102M		
Peripherals in test setup boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
Programming Head	Medtronic Inc.	2067	INP019052R		
AC Adapter	Condor	AM178B36	RoHS B 0000646		
DAQ System	BIOPAC Systems Inc.	MP150	706A-00008B6		
Remote Equipment Outside of Test Setup Boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
Programmer	Medtronic Inc.	2090x	130812/ES032277		
Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	2.4m	No	Programmer	AC Mains
Programming Head IO	Yes	2.8m	No	Programmer	Programming Head
Modified 15420 - SN FDA00422V1.1.0	Yes	2.8m	No	Acute Human Monitor	Simulated Load
BNC to Headphone x4	No	1.8m	No	Acute Human Monitor	DAQ System
AC Power	No	2.0m	No	AC Adapter	AC Mains
DC Power	No	1.8m	No	DAQ System	AC Adapter
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	12/21/2012	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	12/21/2012	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Field Strength of Fundamental

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Transmitting 175 kHz FSK (150-200 kHz).

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

MDTR0202 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	9 kHz	Stop Frequency	490 kHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/31/2012	12 mo
Antenna, Loop	ETS Lindgren	6502	AOB	2/9/2011	24 mo
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

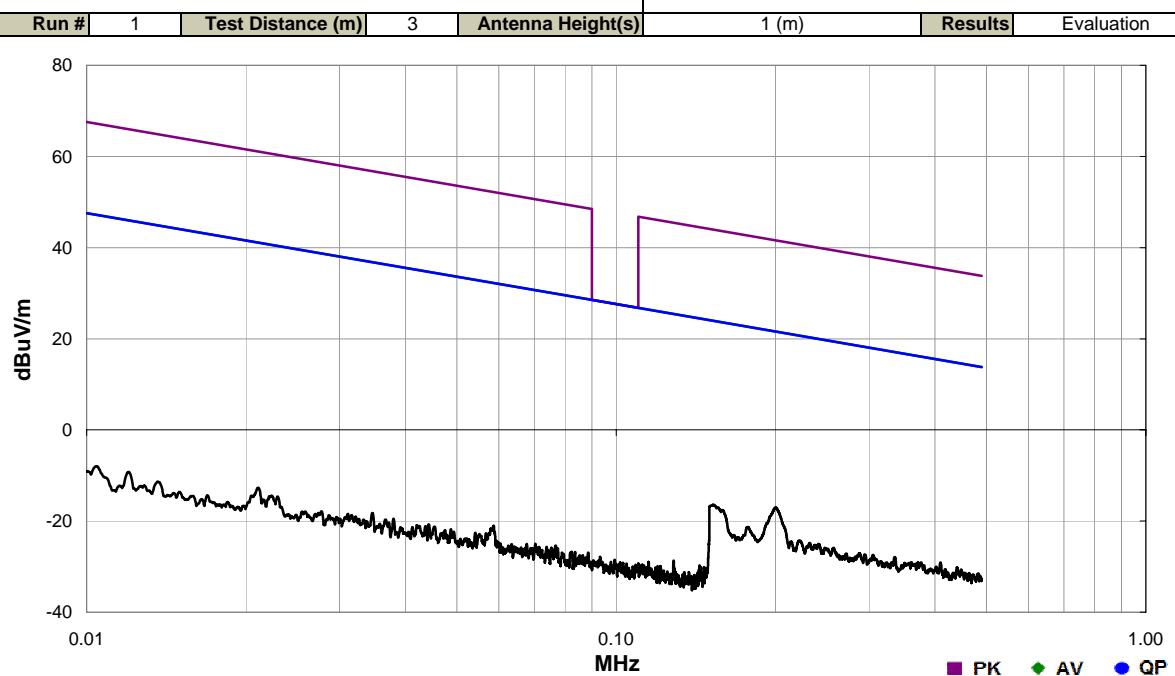
TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and orientation in 3 orthogonal planes, the EUT and/or associated antenna is positioned in 3 orthogonal planes (per ANSI C63.4). An active loop antenna was used for this test in order to provide sufficient measurement sensitivity.

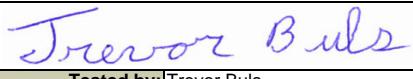
As outlined in 15.209(e), and associated reference to 15.31, measurements may be performed at a distance closer than specified as was the case in this testing. In this case the limit for the defined distance is outlined on the data sheet. For transmitters operating below 10 MHz, the data is adjusted by using the square of the inverse linear distance extrapolation factor of 40dB/decade.

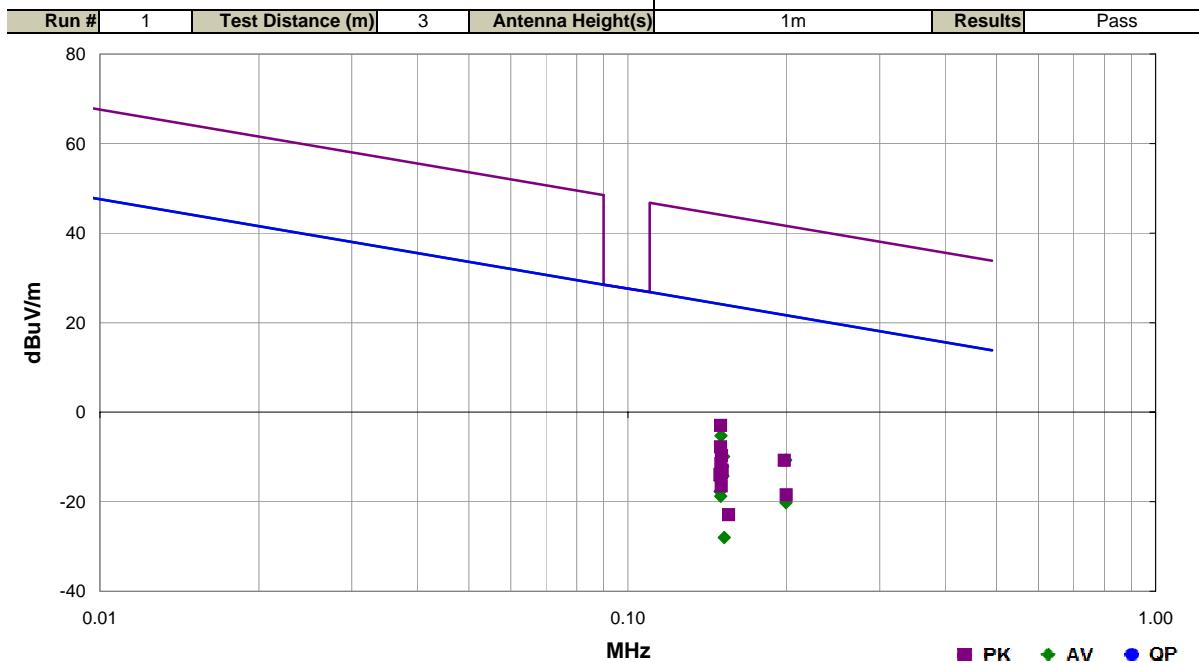
Work Order:	MDTR0202	Date:	12/21/12	
Project:	None	Temperature:	23.11 °C	
Job Site:	MN05	Humidity:	11.55% RH	
Serial Number:	R19061102M	Barometric Pres.:	1024.6 mbar	Tested by: Trevor Buls
EUT:	Acute Human Monitor			
Configuration:	1			
Customer:	Medtronic Inc.			
Attendees:	Jonathan Bruss			
EUT Power:	Battery			
Operating Mode:	Transmitting 175 kHz FSK (150-200 kHz).			
Deviations:	None			
Comments:	LVR3/HVB switch is in LVR3 position. Gains setting is x8.			

Test Specifications	Test Method
FCC 15.209:2012	ANSI C63.10:2009



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
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Work Order:	MDTR0202	Date:	12/21/12							
Project:	None	Temperature:	23.11 °C							
Job Site:	MN05	Humidity:	11.55% RH							
Serial Number:	R19061102M	Barometric Pres.:	1024.6 mbar	Tested by: Trevor Buls						
EUT:	Acute Human Monitor									
Configuration:	1									
Customer:	Medtronic Inc.									
Attendees:	Jonathan Bruss									
EUT Power:	Battery									
Operating Mode:	Transmitting 175 kHz FSK (150-200 kHz).									
Deviations:	None									
Comments:	LVR3/HVB switch is in LVR3 position. Gains setting is x8.									
Test Specifications			Test Method							
FCC 15.209:2012			ANSI C63.10:2009							



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.150	63.4	11.3	1.0	67.0	3.0	0.0	Par to EUT	AV	-80.0	-5.3	24.1	-29.4	EUT on Side
0.199	58.2	11.1	1.0	296.0	3.0	0.0	Par to EUT	AV	-80.0	-10.7	21.6	-32.3	EUT on Side
0.152	58.8	11.3	1.0	345.0	3.0	0.0	Perp to GND	AV	-80.0	-9.9	24.0	-33.9	EUT on Side
0.151	56.6	11.3	1.0	193.0	3.0	0.0	Par to EUT	AV	-80.0	-12.1	24.0	-36.1	EUT Vert
0.152	54.4	11.3	1.0	109.0	3.0	0.0	Par to GND	AV	-80.0	-14.3	24.0	-38.3	EUT Horz
0.150	53.4	11.3	1.0	102.0	3.0	0.0	Par to GND	AV	-80.0	-15.3	24.1	-39.4	EUT on Side
0.150	53.4	11.3	1.0	87.0	3.0	0.0	Perp to GND	AV	-80.0	-15.3	24.1	-39.4	EUT Vert
0.199	48.7	11.1	1.0	303.0	3.0	0.0	Par to EUT	AV	-80.0	-20.2	21.6	-41.8	EUT Horz
0.150	51.0	11.3	1.0	266.0	3.0	0.0	Par to GND	AV	-80.0	-17.7	24.1	-41.8	EUT Vert
0.150	49.9	11.3	1.0	303.0	3.0	0.0	Par to EUT	AV	-80.0	-18.8	24.1	-42.9	EUT Horz
0.150	65.7	11.3	1.0	67.0	3.0	0.0	Par to EUT	PK	-80.0	-3.0	44.1	-47.1	EUT on Side
0.150	60.9	11.3	1.0	345.0	3.0	0.0	Perp to GND	PK	-80.0	-7.8	44.1	-51.9	EUT on Side
0.152	40.7	11.3	1.0	182.0	3.0	0.0	Perp to GND	AV	-80.0	-28.0	24.0	-52.0	EUT Horz
0.198	58.1	11.1	1.0	296.0	3.0	0.0	Par to EUT	PK	-80.0	-10.8	41.7	-52.5	EUT on Side
0.151	59.0	11.3	1.0	193.0	3.0	0.0	Par to EUT	PK	-80.0	-9.7	44.1	-53.8	EUT Vert
0.150	57.2	11.3	1.0	109.0	3.0	0.0	Par to GND	PK	-80.0	-11.5	44.1	-55.6	EUT Horz
0.151	55.7	11.3	1.0	87.0	3.0	0.0	Perp to GND	PK	-80.0	-13.0	44.0	-57.0	EUT Vert
0.151	55.1	11.3	1.0	102.0	3.0	0.0	Par to GND	PK	-80.0	-13.6	44.1	-57.7	EUT on Side
0.150	54.8	11.3	1.0	266.0	3.0	0.0	Par to GND	PK	-80.0	-13.9	44.1	-58.0	EUT Vert
0.200	50.4	11.1	1.0	303.0	3.0	0.0	Par to EUT	PK	-80.0	-18.5	41.6	-60.1	EUT Horz
0.150	52.2	11.3	1.0	303.0	3.0	0.0	Par to EUT	PK	-80.0	-16.5	44.1	-60.6	EUT Horz
0.155	45.8	11.3	1.0	182.0	3.0	0.0	Perp to GND	PK	-80.0	-22.9	43.8	-66.7	EUT Horz

Spurious Radiated Emissions

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Transmitting 175 kHz FSK (150-200 kHz).

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

MDTR0202 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	9 kHz	Stop Frequency	1000 MHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2012	12 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	8/28/2012	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/31/2012	12 mo
Antenna, Loop	ETS Lindgren	6502	AOB	2/9/2011	24 mo
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

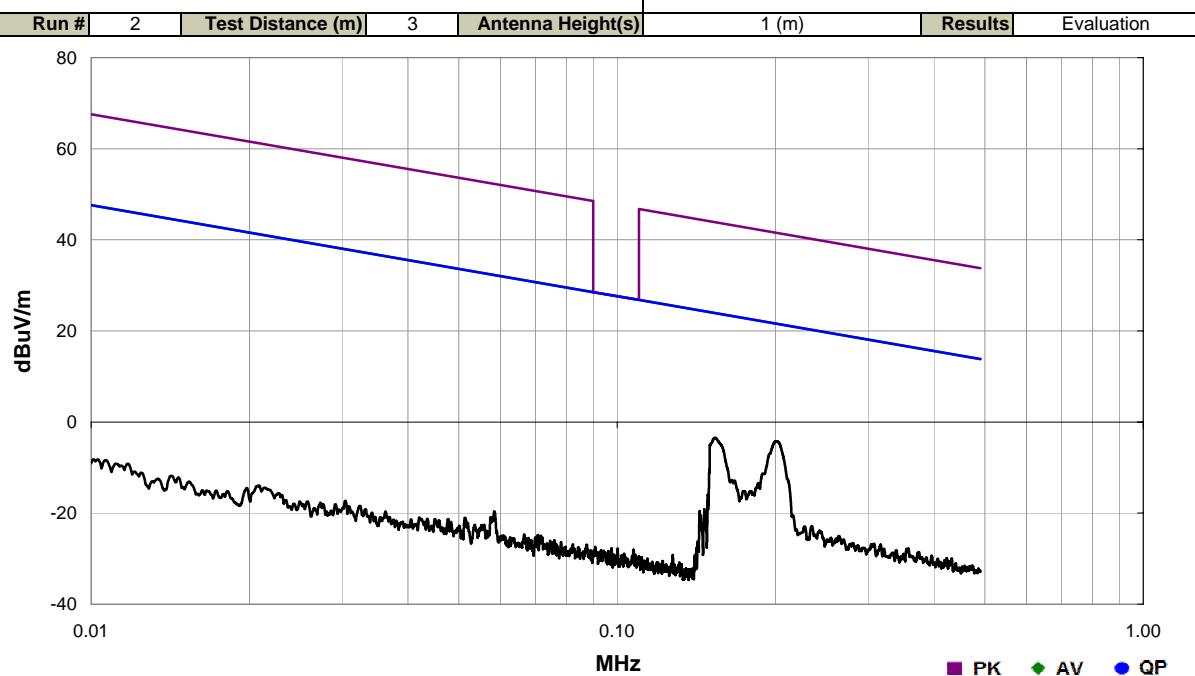
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As outlined in 15.209(e), and associated reference to 15.31, measurements may be performed at a distance closer than specified as was the case in this testing. In this case the limit for the defined distance is outlined on the data sheet. For transmitters operating below 10 MHz, the data is adjusted by using the square of the inverse linear distance extrapolation factor of 40dB/decade.

Work Order:	MDTR0202	Date:	12/21/12	
Project:	None	Temperature:	23.11 °C	
Job Site:	MN05	Humidity:	11.55% RH	
Serial Number:	R19061102M	Barometric Pres.:	1024.6 mbar	Tested by: Trevor Buls
EUT:	Acute Human Monitor			
Configuration:	1			
Customer:	Medtronic Inc.			
Attendees:	Jonathan Bruss			
EUT Power:	Battery			
Operating Mode:	Transmitting 175 kHz FSK (150-200 kHz).			
Deviations:	None			
Comments:	EUT on Side. Span set wide enough to capture the entire modulation envelope. No detectable emissions above the noise floor. Data below shows noise floor measurements for reference only. LVR3/HVB switch is in LVR3 position. Gains setting is x8.			

Test Specifications	Test Method
FCC 15.209:2012	ANSI C63.10:2009

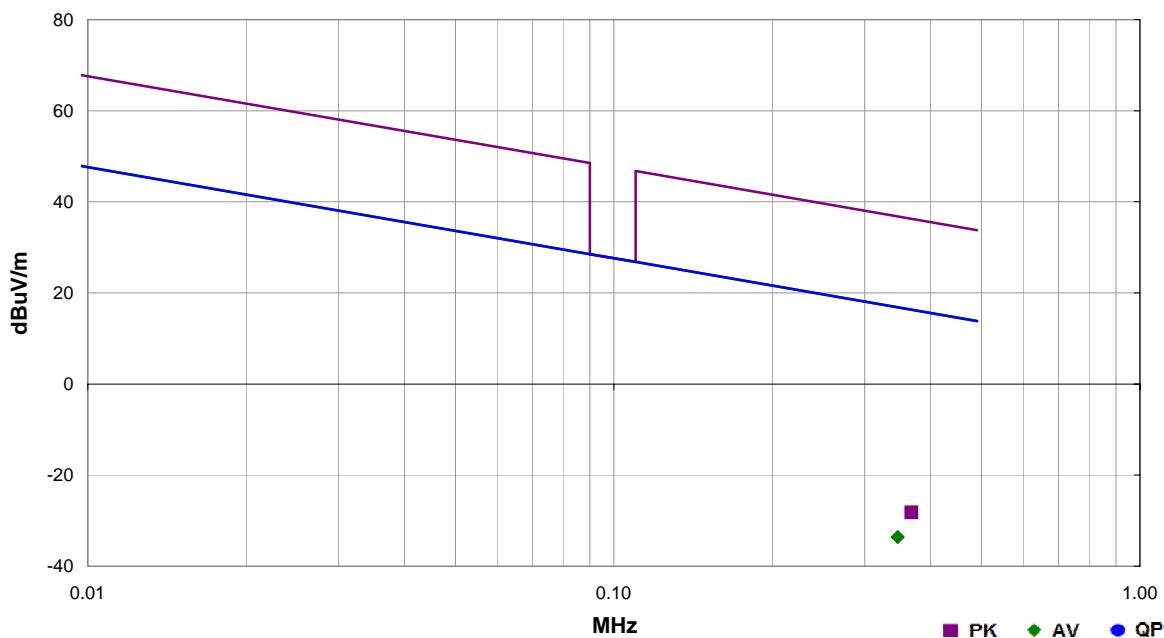


Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
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Work Order:	MDTR0202	Date:	12/21/12		
Project:	None	Temperature:	23.11 °C		
Job Site:	MN05	Humidity:	11.55% RH		
Serial Number:	R19061102M	Barometric Pres.:	1024.6 mbar		
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Configuration:	1				
Customer:	Medtronic Inc.				
Attendees:	Jonathan Bruss				
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Deviations:	None				
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Test Specifications	Test Method
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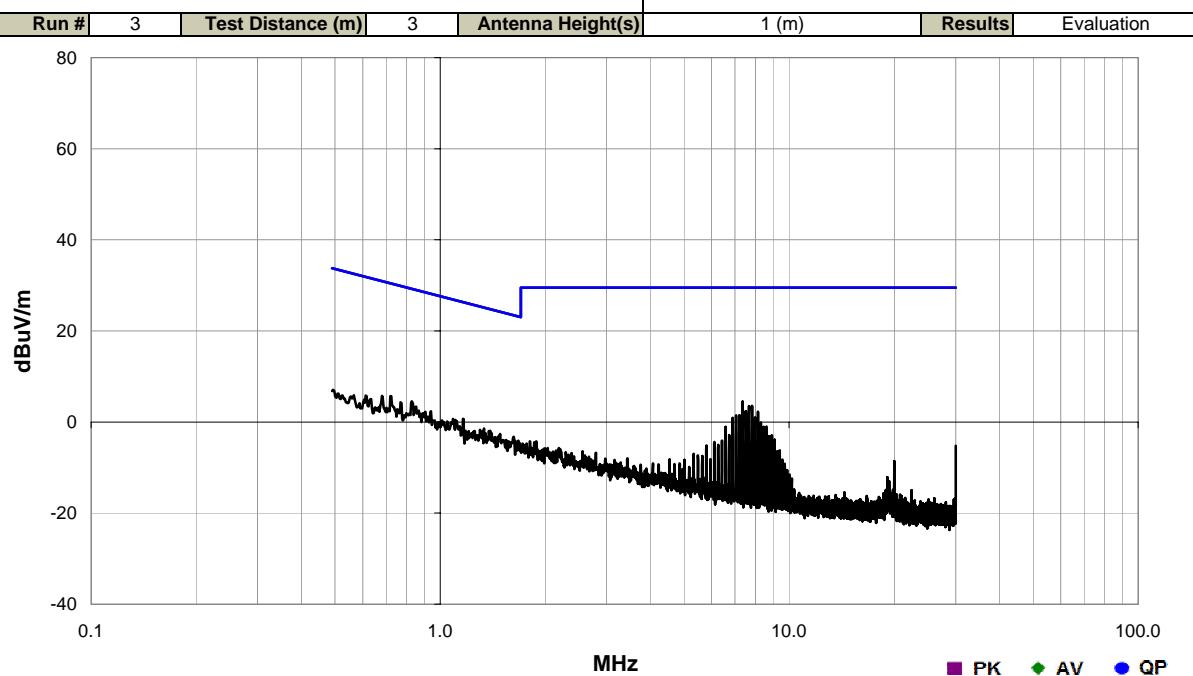
Run #	Test Distance (m)	Antenna Height(s)	1m	Results	Pass
2	3		1m		Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.346	35.1	11.3	1.0	348.0	3.0	0.0	Par to EUT	AV	-80.0	-33.6	16.8	-50.4	
0.368	40.5	11.3	1.0	348.0	3.0	0.0	Par to EUT	PK	-80.0	-28.2	36.3	-64.5	

Work Order:	MDTR0202	Date:	12/21/12	
Project:	None	Temperature:	23.11 °C	
Job Site:	MN05	Humidity:	11.55% RH	
Serial Number:	R19061102M	Barometric Pres.:	1024.6 mbar	Tested by: Trevor Buls
EUT:	Acute Human Monitor			
Configuration:	1			
Customer:	Medtronic Inc.			
Attendees:	Jonathan Bruss			
EUT Power:	Battery			
Operating Mode:	Transmitting 175 kHz FSK (150-200 kHz).			
Deviations:	None			
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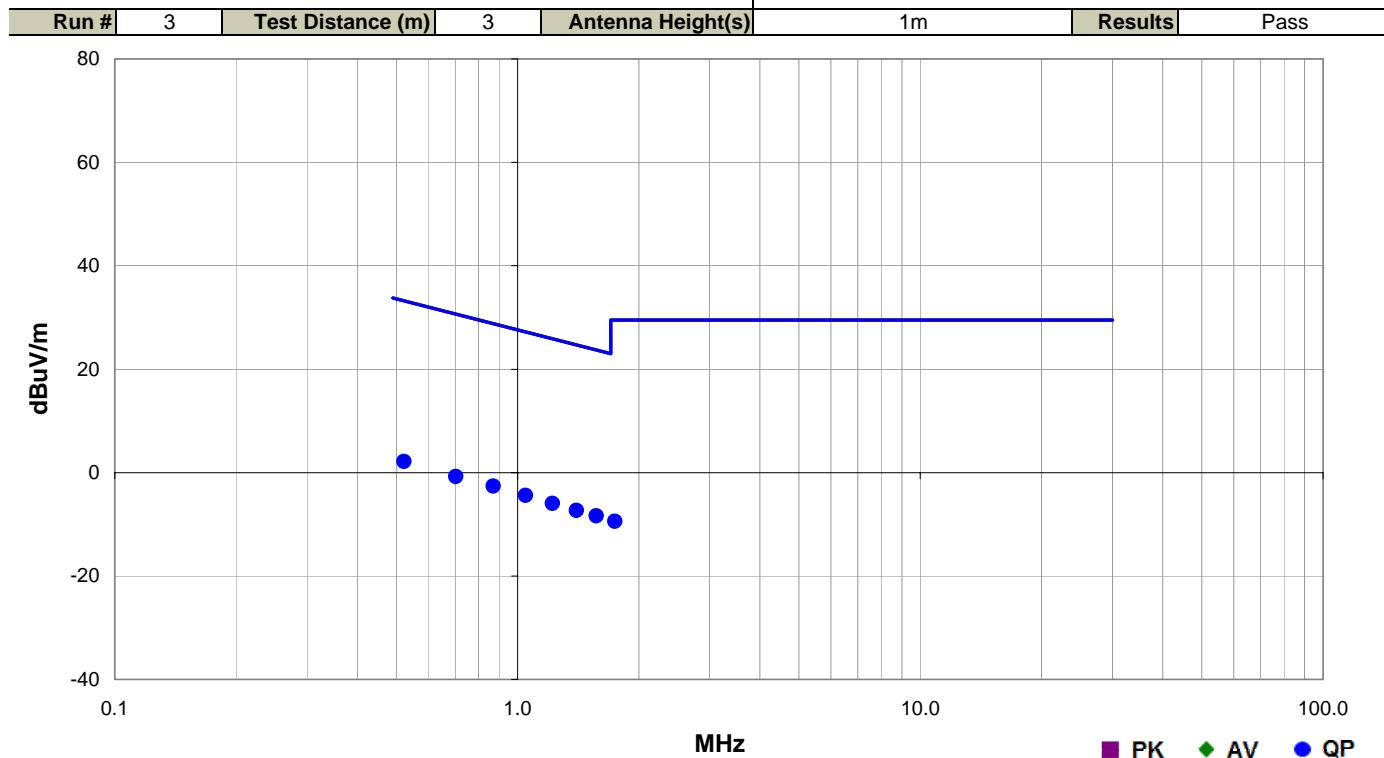
Test Specifications	Test Method
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Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
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Work Order:	MDTR0202	Date:	12/21/12	 Tested by: Trevor Buls	
Project:	None	Temperature:	23.11 °C		
Job Site:	MN05	Humidity:	11.55% RH		
Serial Number:	R19061102M	Barometric Pres.:	1024.6 mbar		
EUT:	Acute Human Monitor				
Configuration:	1				
Customer:	Medtronic Inc.				
Attendees:	Jonathan Bruss				
EUT Power:	Battery				
Operating Mode:	Transmitting 175 kHz FSK (150-200 kHz).				
Deviations:	None				
Comments:	EUT on Side. Span set wide enough to capture the entire modulation envelope. No detectable emissions above the noise floor. Data below shows noise floor measurements for reference only. LVR3/HVB switch is in LVR3 position. Gains setting is x8.				

Test Specifications	Test Method
FCC 15.209:2012	ANSI C63.10:2009



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
0.523	30.6	11.5	1.0	200.0	3.0	0.0	Par to EUT	QP	-40.0	2.1	33.2	-31.1
0.703	27.5	11.7	1.0	27.0	3.0	0.0	Par to EUT	QP	-40.0	-0.8	30.7	-31.4
0.870	25.4	12.0	1.0	286.0	3.0	0.0	Par to EUT	QP	-40.0	-2.6	28.8	-31.4
1.047	23.4	12.2	1.0	335.0	3.0	0.0	Par to EUT	QP	-40.0	-4.4	27.2	-31.6
1.221	21.9	12.1	1.0	114.0	3.0	0.0	Par to EUT	QP	-40.0	-6.0	25.9	-31.9
1.401	20.6	12.1	1.0	15.0	3.0	0.0	Par to EUT	QP	-40.0	-7.3	24.7	-32.0
1.570	19.6	12.0	1.0	139.0	3.0	0.0	Par to EUT	QP	-40.0	-8.4	23.7	-32.1
1.746	18.6	12.0	1.0	194.0	3.0	0.0	Par to EUT	QP	-40.0	-9.4	29.5	-38.9