

MEASUREMENT AND TECHNICAL REPORT

MEDTRONIC MINIMED
18000 Devonshire Street
Northridge, CA 91325

DATE: 27 October 2004

This Report Concerns:	Original Grant: X	Class II Change:
	Telemetered Glucose Monitor System III (TGMS III), Model MMT-7701	
Equipment Type:	Yes:	No: X
Deferred grant requested per 47 CFR 0.457(d)(1)(ii)?	Defer until:	
Company Name agrees to notify the Commission by:		
of the intended date of announcement of the product so that the grant can be issued on that date.		
N/A		
Transition Rules Request per 15.37?	Yes:	No: X*
(*) FCC Part 15, Paragraph(s) 15.249(a); RSS-210, 6.1.1(b) and (c)		
Report Prepared by:		
TÜV AMERICA, INC 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone: 858 678 1400 Fax: 858 546 0364		

TABLE OF CONTENTS

	Pages
1.0 GENERAL INFORMATION	<u>3</u>
1.1 Product Description	<u>3</u>
1.2 Related Submittal Grant	<u>3</u>
1.3 Tested System Details	<u>3</u>
1.4 Test Methodology	<u>3</u>
1.5 Test Facility	<u>3</u>
1.6 Part 2 Requirements	<u>3</u>
2.0 SYSTEM TEST CONFIGURATION	<u>4</u>
2.1 Justification	<u>4</u>
2.2 EUT Exercise Software	<u>4</u>
2.3 Special Accessories	<u>4</u>
2.4 Equipment Modifications	<u>4</u>
2.5 Configuration of Test System	<u>4</u>
3.0 FIELD STRENGTH OF EMISSIONS and OCCUPIED BANDWIDTH EQUIPMENT/DATA	<u>5 - 8</u>
4.0 ATTESTATION STATEMENT	<u>9</u>

1.0 GENERAL INFORMATION

1.1 Product Description

Company: Medtronic MiniMed
 Address: 18000 Devonshire Street
 Northridge, California 91325
 Contact: Bob Vitti Position: Manager, Design Assurance Engineering
 Phone: 818.576.4069 Fax: 818.576.6284
 E-mail Address: Bob.Vitti@Medtronic.com

General Equipment Description

EUT Description: TGMS III Transmitter Keyfob: Transmits blood glucose level at 5 minute intervals
 EUT Name: Telemetered Glucose Monitor System III (TGMS III)
 Model No.: MMT-7701
 Product Options: Transmit BG data
 Configurations to be tested: Transmit special 2Hz signal

EUT Specifications and Requirements

Length: 2.5" Width: 1.6" Height: 0.4" Weight: 25grams

Power Requirements

Voltage: 3.0 VDC Lithium Battery

Typical Installation and/or Operating Environment

Taped onto the abdomen of the user

EUT Power Cable: Not applicable

EUT Operating Modes to be Tested: Transmitting

Oscillator Frequencies:

Frequency	Derived Frequency	Component # / Location	Description of Use
10MHz		X1	PIC Oscillator
32.768kHz		X2	Clock Oscillator
1-200Hz		PCB	Sensor Oscillator
100-500kHz		PCB	Switching Converter

1.2 Related Submittal Grant

None

1.3 Tested System Details

The FCC ID's for all equipment, plus descriptions of all cables used in the tested system are:

None

1.4 Test Methodology

Purpose of Test: To demonstrate compliance with the following tests.

TEST	FCC CFR 47#	PASS/FAIL
Field Strength of Emissions	15.249(a); RSS-210, 6.1.1(b)	Pass
Occupied Bandwidth	RSS-210, 6.1.1(c)	Pass

Tests were performed according to the procedures in FCC/ANSI C63.4 and CSA 108.8-M1983.

1.5 Test Facility

The open area test site and conducted measurement data were tested by:

TÜV AMERICA, INC
10040 Mesa Rim Road
San Diego, CA 92121-2912
Phone: 858 678 1400
Fax: 858 546 0364

The Test Site Data and performance comply with ANSI C63.4 and are registered with the FCC, 7435 Oakland Mills Road, Columbia Maryland 21046. All Measurement Data is acquired according to the content of FCC Measurement Procedure and ANSI C63.4, unless supplemented with additional requirements as noted in the test report.

2.0 SYSTEM TEST CONFIGURATION

2.1 Justification

The EUT was initially tested for FCC emissions in the following configuration:

See Test Setup Photos Exhibit

2.2 EUT Exercise Software

None

2.3 Special Accessories

None

2.4 Equipment Modifications

None

2.5 Configuration of Test System

See Test Setup Photos Exhibit

3.0 FIELD STRENGTH OF EMISSIONS and OCCUPIED BANDWIDTH EQUIPMENT/DATA

Test Conditions: FIELD STRENGTH OF EMISSIONS and OCCUPIED BANDWIDTH: FCC Part 15.249(a); RSS-210, 6.1.1(b) and (c)

The FIELD STRENGTH OF EMISSIONS and OCCUPIED BANDWIDTH measurements were performed at the San Diego Testing Facility:

☐ - Test not applicable

■ - Roof (Small Open Area Test Site)

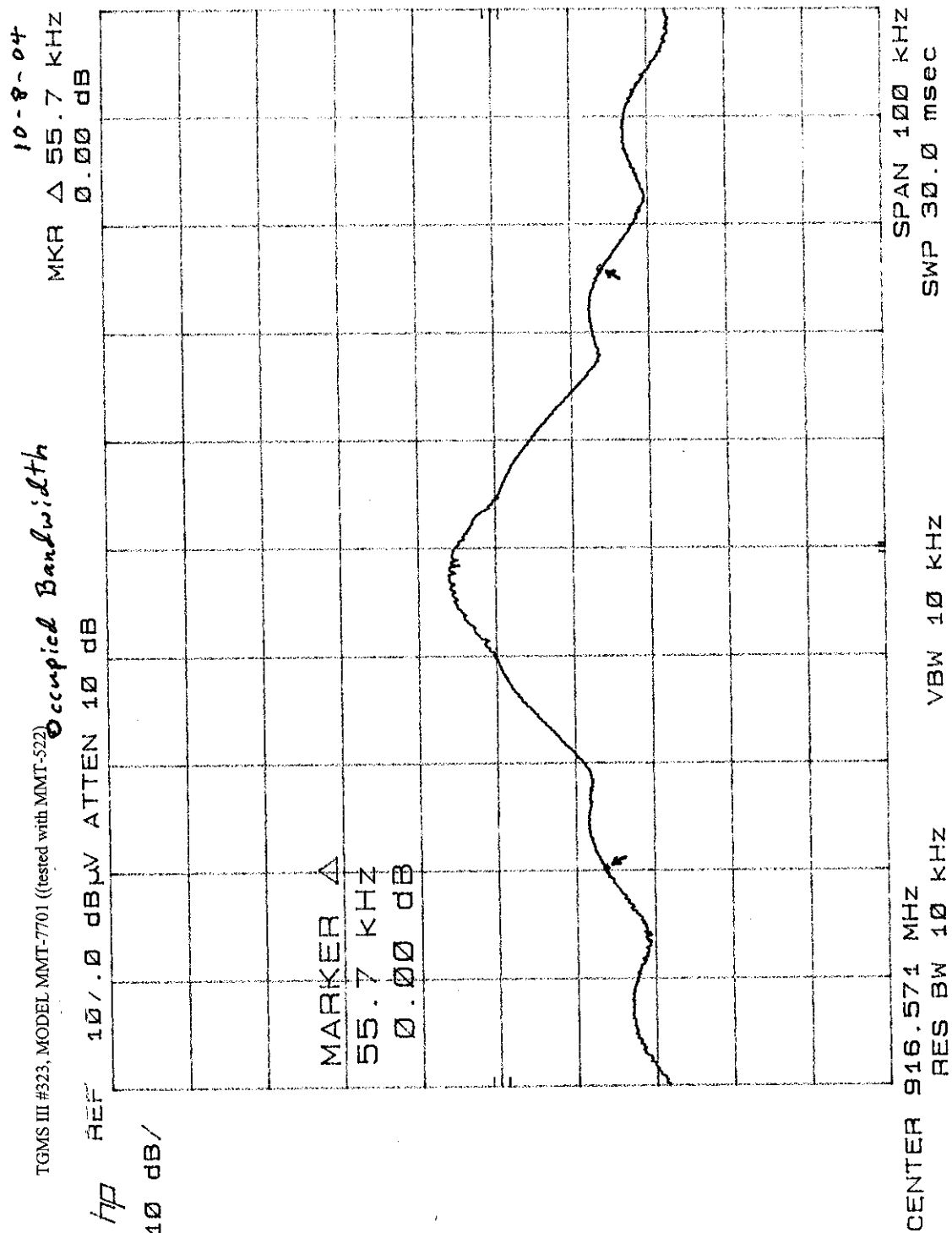
Test Equipment Used:

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Date Cal'ed
HP-8566B	744	Spectrum Analyzer	Hewlett Packard	2618A02913	01/04
HP-85650A	746	Quasi-Peak Adapter	Hewlett Packard	2521A00597	VBU*
8445B	809	Automatic Preselector	Hewlett Packard	1442A01127	VBU*
AMF-5D-010180-35-10P	719	RF Amplifier	Miteq	549460	VBU*
3115	251	Double Ridge Guide Antenna	EMCO	2495	01/04
3146	244	Log Periodic Antenna	EMCO	1063	07/04

Remarks: One year calibration cycle for all test equipment and sites. (*) Verified Before Use.

NO EMISSIONS DETECTED FROM 30-1000 MHz.

[illegible]



4.0 ATTESTATION STATEMENT

GENERAL REMARKS:

SUMMARY:

All tests were performed per CFR 47, Part(s) **15.249(a)**; **RSS-210, 6.1.1(b) and (c)**.

■ - Performed

The Equipment Under Test

■ - **Fulfills** the requirements of CFR 47, Part(s) **15.249(a)** ; **RSS-210, 6.1.1(b) and (c)**.

Testing Start Date: 08 October 2004

Testing End Date: 08 October 2004

- TÜV AMERICA, INC. -

Responsible Engineer:



Jim Owen
(EMC Manager)

Responsible Engineer:



Chuck Rickard
(EMC Engineer)