

PCTEST ENGINEERING LABORATORY, INC.

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CERTIFICATE OF COMPLIANCE (SAR EVALUATION)

Applicant Name: GE Medical Systems Information Technologies Inc. 8200 West Tower Avenue Milwaukee, WI 53223 USA Date of Testing: 7/26/2007 & 12/13/2007 Test Site/Location: PCTEST Lab, Columbia, MD, USA Test Report Serial No.: 0707180745-R5.OU5

FCC ID:

OU52014748-002

APPLICANT: GE MEDICAL SYSTEMS INFORMATION TECHNOLOGIES INC.

EUT Type: Application Type: FCC Rule Part(s): FCC Classification: Model(s): Tx Frequency: RF Conducted Power: Max. SAR Measurement:

Wireless Medical Telemetry Transmitter (WMTS) Certification §2.1093; §95H, FCC/OET Bulletin 65 Supplement C [July 2001] Licensed Non-Broadcast Transmitter Worn on Body Carescape Telemetry T14 1395 - 1400 MHz (GFSK) 6.61 dBm (4.575 mW) 0.12 W/kg Body SAR

Test Device Serial No.:

Pre-Production [S/N: 3838691]

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE Std. C95.1-2005 and has been tested in accordance with the measurement procedures specified in FCC/OET Bulletin 65 Supplement C (2001) and IEEE Std. 1528-2003.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

NOTE: This revised Test Report supersedes and replaces the previously-issued test report (S/N: 0707180745-R4.OU5) on the same subject EUT for the same type of testing as indicated.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.

Randy Ortanez President



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FCC ID: 0052014748-002	V ENGINEERING LABORATORY, INC.	CERTIFICATION REPORT	GE Healthcare	Quality Manager
Filename:	Test Dates:	EUT Type:		Page 1 of 18
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Transmitter (WMTS)		Fage 10110
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1		. 3
2	TEST SITE LOCATION	. 4
3	SAR MEASUREMENT SETUP	. 5
4	DASY E-FIELD PROBE SYSTEM	. 7
5	PROBE CALIBRATION PROCESS	. 8
6	PHANTOM AND EQUIVALENT TISSUES	. 9
7	DOSIMETRIC ASSESSMENT & PHANTOM SPECS	10
8	ANSI/IEEE C95.1-2005 RF EXPOSURE LIMITS	11
9	MEASUREMENT UNCERTAINTIES	12
10	SYSTEM VERIFICATION	13
11	SAR DATA SUMMARY	14
12	EQUIPMENT LIST	15
13	CONCLUSION	16
14	REFERENCES	17

FCC ID: OU52014748-002		CERTIFICATION REPORT	GE Healthcare	Reviewed by: Quality Manager
Filename:	Test Dates:	EUT Type:		Dogo 2 of 19
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Transm	Page 2 of 18	
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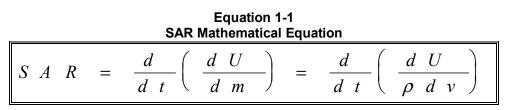
1 INTRODUCTION

The FCC has adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices.[1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-2005 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz[2] and Health Canada RF Exposure Guidelines Safety Code 6 [26]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [3] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

1.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 1-1).



SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

 σ = conductivity of the tissue-simulating material (S/m)

 ρ = mass density of the tissue-simulating material (kg/m³)

E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

FCC ID: OU52014748-002		CERTIFICATION REPORT	GE Healthcare	Reviewed by:	
	V ENGINEERING LABORATORY, INC.			Quality Manager	
Filename:	Test Dates:	EUT Type:		Page 3 of 18	
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Tra	Fage 5 01 16		
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2 TEST SITE LOCATION

2.1 INTRODUCTION

The map at the right shows the location of the PCTEST LABORATORY in Columbia, Maryland. It is in proximity to the FCC Laboratory, the Baltimore-Washington International (BWI) airport, the city of Baltimore and Washington, DC (See Figure 2-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49' 38" W longitude. The facility is 1.5 miles north of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed



Figure 2-1 Map of the Greater Baltimore and Metropolitan Washington, D.C. area

description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on January 27, 2006 and Industry Canada.

2.2 Test Facility / Accreditations:

Measurements were performed at an independent accredited PCTEST Engineering Lab located in Columbia, MD 21045, U.S.A.



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- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing-Aid Compatibility (HAC), CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST facility is an FCC registered (PCTEST Reg. No. 90864) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (IC-2451).
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and all Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (IC-2451) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS and CDMA, and EvDO mobile phones.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO Data, CDMA 1xRTT Data.

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FCC ID: OU52014748-002	ENGINEERING LASORATORY, INC.	CERTIFICATION REPORT GE Healthcare	Quality Manager
Filename:	Test Dates:	EUT Type:	Page 4 of 18
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Transmitter (WMTS)	Fage 4 01 10

3 SAR MEASUREMENT SETUP

3.1 Robotic System

Measurements are performed using the DASY4 automated dosimetric assessment system. The DASY4 is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland and consists of high precision robotics system (Staubli), robot controller, Pentium 4 computer, near-field probe, probe alignment sensor, and the generic twin phantom containing the brain equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF) (see Figure 3-1).

3.2 System Hardware

A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and a remote control used to drive the robot motors. The PC consists of the Gateway Pentium 4 2.53 GHz computer with Windows XP system and SAR Measurement Software DASY4, A/D interface card, monitor, mouse, and keyboard. The Staubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit that performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

3.3 System Electronics

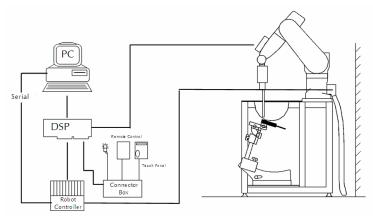


Figure 3-1 SAR Measurement System Setup

The DAE4 consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer. The system is described in detail in [7].

FCC ID: OU52014748-002		CERTIFICATION REPORT	GE Healthcare	Reviewed by: Quality Manager		
	•	1		Quality Manager		
Filename:	Test Dates:	EUT Type:	EUT Type:			
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Tran	Page 5 of 18			
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3.4 Automated Test System Specifications

Positioner Robot:

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Stäubli Unimation Corp. Robot RX60L Repeatability: 0.02 mm No. of Axes: 6

Data Acquisition Electronic System (DAE)

Cell Controller

Processor: Pentium 4 Clock Speed: 2.53 GHz Operating System: Windows XP Professional

Data Converter

Features:Signal Amplifier, multiplexer, A/D converter & control logicSoftware:DASY4, SEMCAD softwareConnecting Lines:Optical Downlink for data and status infoOptical upload for commands and clock

PC Interface Card

Function: 166MHz low power Pentium MMX 32MB chipdisk Link to DAE 16-bit A/D converter for surface detection system Two Serial & Ethernet link to robotics Direct emergency stop output for robot

Phantom 1997

Type: SAM Twin Phantom (V4.0) Shell Material: Composite Thickness: 2.0 ± 0.2 mm



Figure 3-2 DASY4 SAR Measurement System

FCC ID: OU52014748-002		CERTIFICATION REPORT	GE Healthcare	Reviewed by: Quality Manager
	•			quality manager
Filename:	Test Dates:	EUT Type:		Page 6 of 18
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Transm	Fage 0 01 10	

DASY E-FIELD PROBE SYSTEM



4.1 Probe Measurement System

The SAR measurements were conducted with the dosimetric probe EX3DV4, designed in the classical triangular configuration [7] (see Figure 4-1) and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multi-fiber line ending at the front of the probe tip (see Figure 4-1). It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches

Figure 4-1 SAR System maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe

angle. The DASY4 software reads the reflection during a software approach and looks for the maximum using a 2nd order fitting (see Figure 5-1). The approach is stopped at reaching the maximum.

4.2 Probe Specifications

Model:	ES3DV2
Frequency Range:	10 MHz – 4 GHz
Calibration:	See Calibration Certificate for Details
Linearity:	± 0.2 dB (30 MHz to 4 GHz)
Dynamic Range:	10 mW/kg – 100 W/kg
Probe Length:	330 mm
Probe Tip Length:	20 mm
Body Diameter:	12 mm
Tip Diameter:	3.9mm
Tip-Center:	2.0 mm
Application:	SAR Dosimetry Testing
	Compliance tests of mobile phones
	Dosimetry in strong gradient fields



Figure 4-2 Near-Field Probe

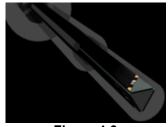


Figure 4-3 Triangular Probe Configuration

FCC ID: OU52014748-002		CERTIFICATION REPORT	GE Healthcare	Reviewed by: Quality Manager
Filename:	Test Dates:	EUT Type:		Page 7 of 18
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Tran	Fage / UI To	
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4

5 PROBE CALIBRATION PROCESS

5.1 Dosimetric Assessment Procedure

Each E-Probe/Probe amplifier combination has unique calibration parameters. A TEM cell calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm²) using an RF Signal generator, TEM cell, and RF Power Meter.

5.2 Free Space Assessment

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1 mW/cm².

5.3 Temperature Assessment

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

SAR =
$$C\frac{\Delta T}{\Delta t}$$

where:

 Δt = exposure time (30 seconds),

 ΔT = temperature increase due to RF exposure.

SAR is proportional to $\Delta T/\Delta t$, the initial rate of tissue heating, before thermal diffusion takes place. Now it's possible to quantify the electric field in the simulated tissue by equating the thermally derived SAR to the E- field;

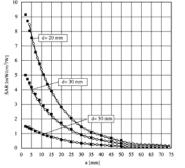
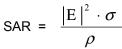


Figure 5-1 E-Field and Temperature measurements at 900MHz [7]



where:

 σ = simulated tissue conductivity,

 ρ = Tissue density

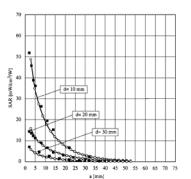


Figure 5-2 E-Field and temperature measurements at 1.9GHz [7]

FCC ID: OU52014748-002		CERTIFICATION REPORT	GE Healthcare	Reviewed by: Quality Manager
Filename:	Test Dates:	EUT Type:		Dage 9 of 19
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Tran	Page 8 of 18	
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PHANTOM AND EQUIVALENT TISSUES

6.1 SAM Phantoms

6



SAM Phantoms

The SAM Twin Phantom V4.0 is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is based on data from an anatomical study designed to determine the maximum exposure in at least 90% of all users [11][12]. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

6.2 Brain & Muscle Simulating Mixture Characterization



Figure 6-2 Head Simulated The brain and muscle mixtures consist of a viscous gel using hydroxethylcellulose (HEC) gelling agent and saline solution (see Table 6-1). Preservation with a bactericide is added and visual inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table. Other head and body tissue parameters that have not been specified in IEEE-1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations The mixture characterizations used for the brain and muscle tissue simulating liquids are according to the data by C. Gabriel and G. Hartsgrove [13].(See Table 6-1)

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Frequency (MHz)	300	4	50	835		900	1450			18	00		19	00	1950	2000	21	.00	24	150	3000
Recipe #	1	1	3	1	1	2	3	1	1	2	2	3	1	2	4	1	1	2	2	3	2
Ingredient: (% by weight)																					
1,2-Pro- panediol						64.81															
Bactericide	0.19	0.19	0.50	0.10	0.10		0.50					0.50								0.50	
Diacetin			48.90				49.20					49.43								49.75	
DGBE								45.41	47.00	13.84	44.92		44.94	13.84	45.00	50.00	50.00	7.99	7.99		7.99
HEC	0.98	0.98		1.00	1.00																
NaC1	5.95	3.95	1.70	1.45	1.48	0.79	1.10	0.67	0.36	0.35	0.18	0.64	0.18	0.35				0.16	0.16		0.16
Sucrose	55.32	56.32		57.00	56.50																
Triton X-100										30.45				30.45				19.97	19.97		19.97
Water	37.56	38.56	48.90	40.45	40.92	34.40	49.20	53.80	52.64	55.36	54.90	49.43	54.90	55.36	55.00	50.00	50.00	71.88	71.88	49.75	71.88
								3	deasured.	dielectric	paramet	ars									
4	46.00	43.4	44.3	41.6	41.2	41.8	42.7	40.9	39.3	41	40.4	39.2	39.9	41	40.1	37	36.8	41.1	40.3	39.2	37.9
σ (S/m)	0.86	0.85	0.9	0.9	0.98	0.97	0.99	1.21	1.39	1.38	1.4	1.4	1.42	1.38	1.41	1.4	1.51	1.55	1.88	1.82	2.46
Temp. (°C)	22	22	20	22	22	22	20	22	22	21	22	20	21	21	20	22	22	20	20	20	20
								Tar	et dielect	ric parau	neters (Ts	ible 2)									
é,	45.30	43	.50	41.5		41_50		40.5		40.0				39	.80	35	9.2	38.5			
σ (S/m)	0.87	0.	87	0.9		0.97		1.2	1.4 1.49 1.8 2.4					2.4							
NOTE-Multiple	columns for	any single f	iequancy ac	e optional e	ecipes. Roci	po A, refere	nos: 1 (Kan	da et al. [Bi	(5]), 2 (Vigs	stras [B143]]), 3 (Poyma	m and Gabr	iel [B119]),	4 (Fukuzag	a et al. [BS	PD.					

Table 6-1 Composition of Typical Tissue Equivalent Matter

The formulas containing Triton X-100 and corresponding measured parameters are under review and verification.

	A PCTEST			Reviewed by:
FCC ID: OU52014748-002	ENGINEERING LABORATORY, INC.			Quality Manager
Filename:	Test Dates:	EUT Type:		Page 9 of 18
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Tran	Faye 9 01 10	
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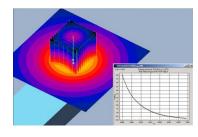
DOSIMETRIC ASSESSMENT & PHANTOM SPECS

7.1 Measurement Procedure

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The evaluation was performed using the following procedure:

- 1. The SAR measurement was taken at a selected spatial reference point to monitor power variations during testing. This fixed point was measured and used as a reference value.
- 2. The SAR distribution at the exposed side of the phantom was measured at a distance of 3.0mm from the inner surface of the shell. The horizontal grid spacing was 15mm x 15mm.
- 3. Based on the area scan data, the area of the maximum absorption was determined by spline interpolation. Around this point, a volume of 32mm x 32mm x 30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5 x 5 x 7 points. On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see Figure 7-1):



- a. The data at the surface was extrapolated since the center of the dipoles is 2.7mm away from the tip of the probe and the distance between the Figure 7-1 surface and the lowest measuring point is 1.2mm. The extrapolation was based on a least square algorithm [15]. A polynomial of the fourth order was calculated through the points in the z-axis. This
- polynomial was then used to evaluate the points between the surface and the probe tip.
 b. The maximum interpolated value was found with a software algorithm. Around this maximum, the SAR values averaged over the spatial volumes (1g or 10g) were computed using 3D-Spline interpolation. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions) [15][16]. The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
- c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 4. The SAR reference value, at the same location as step 1, was re-measured to measure drift. If the value drifted by more than 5%, the evaluation was repeated.

7.2 Specific Anthropomorphic Mannequin (SAM) Specifications

The phantom for handset SAR assessment testing is a low-loss dielectric shell, with shape and dimensions derived from the anthropometric data of the 90th percentile adult male head dimensions as tabulated by the US Army. The SAM Twin Phantom shell is bisected along the mid-sagittal plane into right and left halves (see Figure 7-2). The perimeter sidewalls of each phantom halves are extended to allow filling with liquid to a depth that is sufficient to minimized reflections from the upper surface. The liquid depth is maintained at a minimum depth of 15cm to minimize reflections from the upper surface.



Figure 7-2 SAM Twin Phantom Shell

FCC ID: OU52014748-002		CERTIFICATION REPORT	Reviewed by: Quality Manager
Filename:	Test Dates:	EUT Type:	Page 10 of 18
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Transmitter (WMTS)	Fage 10 01 10

8 ANSI/IEEE C95.1-2005 RF EXPOSURE LIMITS

8.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

8.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposure by leaving the area or by some other appropriate means.

HUMAN EXPOSURE LIMITS							
	UNCONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT Occupational (W/kg) or (mW/g)					
SPATIAL PEAK SAR Brain	1.6	8.0					
SPATIAL AVERAGE SAR Whole Body	0.08	0.4					
SPATIAL PEAK SAR Hands, Feet, Ankles, Wrists	4.0	20					

Table 8-1 SAR Human Exposure Specified in ANSI/IEEE C95.1-2005 and Health Canada Safety Code 6

1 The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

2 The Spatial Average value of the SAR averaged over the whole body.

3 The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

FCC ID: OU52014748-002		CERTIFICATION REPORT	GE Healthcare	Reviewed by: Quality Manager	
Filename:	Test Dates:	EUT Type:		Dago 11 of 19	
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Transmitter (WMTS)		Page 11 of 18	
2007 PCTEST Engineering Laboratory, Inc.					

MEASUREMENT UNCERTAINTIES

9

a	b	с	d	e=	f	g	h =	i =	k
				f(d,k)		Ŭ	c x f/e	c x g/e	
Uncertainty	IEEE	Tol.	Prob.		Ci	Ci	1gm	10gms	
	1528			Div.			Ū	0	
Component	Sec.	(± %)	Dist.	Div.	1gm	10 gms	u _i (± %)	u _i (± %)	vi
Measurement System							(<u>±</u> /0)	(± /0)	
Probe Calibration	E.2.1	6.6	Ν	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	E.2.2	0.25	Ν	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	Ν	1	1.0	1.0	1.3	1.3	∞
Boundary Effect	E.2.3	0.4	Ν	1	1.0	1.0	0.4	0.4	∞
Linearity	E.2.4	0.3	Ν	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	E.2.5	5.1	Ν	1	1.0	1.0	5.1	5.1	∞
Readout Electronics	E.2.6	1.0	Ν	1	1.0	1.0	1.0	1.0	x
Response Time	E.2.7	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1.0	1.0	1.5	1.5	x
RF Ambient Conditions	E.6.1	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.4	R	1.73	1.0	1.0	0.2	0.2	8
Probe Positioning w/ respect to Phantom	E.6.3	2.9	R	1.73	1.0	1.0	1.7	1.7	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	1.0	R	1.73	1.0	1.0	0.6	0.6	8
Test Sample Related									
Test Sample Positioning	E.4.2	6.0	Ν	1	1.0	1.0	6.0	6.0	287
Device Holder Uncertainty	E.4.1	3.32	R	1.73	1.0	1.0	1.9	1.9	∞
Output Power Variation - SAR drift measurement	6.6.2	5.0	R	1.73	1.0	1.0	2.9	2.9	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Conductivity - measurement uncertainty	E.3.3	3.8	Ν	1	0.64	0.43	2.4	1.6	6
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Liquid Permittivity - measurement uncertainty	E.3.3	4.5	Ν	1	0.60	0.49	2.7	2.2	6
Combined Standard Uncertainty (k=1)	•	-	RSS	-			12.4	12.0	299
Expanded Uncertainty			k=2				24.7	24.0	
(95% CONFIDENCE LEVEL)									

The above measurement uncertainties are according to IEEE Std. 1528-2003

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FCC ID: OU52014748-002	V ENGINEERING LABORATORY, INC.	CERTIFICATION REPORT GE Healthcare	Quality Manager
Filename:	Test Dates:	EUT Type:	Page 12 of 18
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Transmitter (WMTS)	Fage 12 01 10
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10 SYSTEM VERIFICATION

10.1 **Tissue Verification**

Table 10-1 Measured Tissue Properties							
Calibrated Date:	07/26/07 12/12/07						
	1450M		1450M				
	Target	Measured	Target	Measured			
Dielectric Constant	54.0	53.1	54.0	53.1			
Conductivity	1.30	1.31	1.30	1.31			

10.2 Test System Verification

Prior to assessment, the system is verified to ±10% of the specifications at 1450 MHz by using the system validation kit(s). (Graphic Plots Attached)

System Verification Results System Verification TARGET & MEASURED								
Date:Amb. Temp (°C)Liquid Temp(°C)Input PowerTissue FrequencyTargeted SAR1gMeasured SAR1gDeviation (%)(°C)(°C)(°C)(W)(Mhz)(mW)(Measured)(%)						Deviation (%)		
07/26/07	23.6	21.5	0.05	1450	1.45	1.47	1.4%	
12/12/07	23.4	21.7	0.05	1450	1.45	1.49	2.8%	

Table 10-2 Verification Results 0....

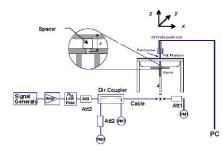


Figure 10-1 System Verification Setup Diagram



Figure 10-2 System Verification Setup Photo

FCC ID: OU52014748-002		CERTIFICATION REPORT	GE Healthcare	Reviewed by: Quality Manager
Filename:	Test Dates:	EUT Type:		Dogo 12 of 19
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Tran	Page 13 of 18	
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11 SAR DATA SUMMARY

11.1 Body SAR Measurement Results

	MEASUREMENT RESULTS									
FREQUE	NCY	Mode	C_Powe	er[dBm]	Position	Spacing	Antenna	INTFC Port	SAR	
MHz	Ch.		Start	End		9	Туре	Term.	(W/kg)	
1395.025	10199	GFSK	6.51	6.64	Front	Touch (0 cm)	Fixed	No	0.0555	
1395.025	10199	GFSK	6.51	6.68	Back	Touch (0 cm)	Fixed	No	0.112	
1399.975	10001	GFSK	6.61	6.76	Front	Touch (0 cm)	Fixed	No	0.0600	
1399.975	10001	GFSK	6.61	6.69	Back	Touch (0 cm)	Fixed	Yes	0.1200	
1399.975	10001	GFSK	6.61	6.77	Back	Touch (0 cm)	Fixed	No	0.1150	
ANSI / IEEE C95.1 2005 - SAFETY LIMIT					Musc	le				
Spatial Peak						1.6 W/kg (•			
Unco	ntrolled	Exposu	re/Genera	al Popula	tion	av	eraged over	er 1 gram		

Notes:

- The test data reported are the worst-case SAR value with the position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2. All modes of operation were investigated, and worst-case results are reported. Starting conducted powers were measured with a representative sample. End powers were determined according to the measurement system drift.
- 3. Batteries are fully charged for all readings.
- 4. Tissue parameters and temperatures are listed on the SAR plots.
- 5. Liquid tissue depth is 15.1 cm. \pm 0.1.

FCC ID: OU52014748-002		CERTIFICATION REPORT	GE Healthcare	Reviewed by: Quality Manager		
Filename:	Test Dates:	EUT Type:		Dago 14 of 19		
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Tra	Page 14 of 18			
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Internet Date Inerval Due Content to the second sec	Manufacturer	Model / Equipment	Calibration	Cal	Calibration	Serial No.
Agilent E5515C Wireless Communications Test Set 7/27/2006 Biennial 7/26/2008 GB41450275 Agilent E5515C Wireless Communications Test Set 10/6/2006 Biennial 10/5/2008 GB43193972 Agilent E5515C Wireless Communications Test Set 10/26/2006 Biennial 10/25/2008 GB46310798 Rohde & Schwarz NRVS Power Meter 7/3/2007 Biennial 17/2/2009 836360/079 Rohde & Schwarz CMU200 Base Station Simulator 19/7/2007 Annual 12/5/2008 833855/010 Rohde & Schwarz CMU200 Base Station Simulator 9/7/2007 Annual 12/2/2008 83365/010 Rohde & Schwarz CMU200 Base Station Simulator 5/24/2007 Annual 5/23/2008 83657/1079 SPEAG D1900V2 1900 MHz SAR Dipole 4/27/2007 Biennial 1/22/2009 502 SPEAG D2450V2 2450 MHz SAR Dipole 9/26/2007 Biennial 9/24/2008 3550 SPEAG D2450V2 45 GHz SAR Dipole 1/22/2007 Annual 5/23/2008 704 SPEAG DAE4	Manufacturer		Date	Inerval	Due	Seriar NO.
Agilent E5515C Wireless Communications Test Set 10/6/2006 Biennial 10/5/2008 GB43193972 Agilent E5515C Wireless Communications Test Set 10/26/2006 Biennial 10/25/2008 GB46310798 Rohde & Schwarz NRV-S Power Meter 7/3/2007 Biennial 7/2/2009 835360/079 Rohde & Schwarz NRV-Z53 Power Sensor 7/3/2007 Biennial 7/2/2009 848076/007 Rohde & Schwarz CMU200 Base Station Simulator 12/6/2007 Annual 9/6/2008 83385/010 Rohde & Schwarz CMU200 Base Station Simulator 1/2/2/007 Biennial 1/22/2009 5052 SPEAG D1900/2 1900 MHz SAR Dipole 1/22/2007 Biennial 1/22/2009 719 SPEAG D2450V2 2450 MHz SAR Dipole 9/26/2007 Biennial 9/26/2009 719 SPEAG D5GHz/2 5 GHz SAR Dipole 9/26/2007 Biennial 9/26/2008 3569 SPEAG D2450V2 2450 MHz SAR Dipole 9/26/2007 Annual 5/27/2008 3589 SPEAG D2450V2 SAR Probe 1/2	Agilent	N4010A Wireless Connectivity Test Set	6/11/2007	Annual	6/10/2008	GB46170464
Agilent E5515C Wireless Communications Test Set 10/26/2006 Biennial 10/25/2008 GB46310798 Rohde & Schwarz NRVS Power Meter 7/3/2007 Biennial 7/2/2009 835360/079 Rohde & Schwarz NRV-Z53 Power Sensor 7/3/2007 Biennial 7/2/2009 846076/007 Rohde & Schwarz CMU200 Base Station Simulator 12/6/2007 Annual 12/5/2008 83385/010 Rohde & Schwarz CMU200 Base Station Simulator 9/7/2007 Annual 5/23/2008 83385/010 Rohde & Schwarz CMU200 Base Station Simulator 5/24/2007 Annual 5/23/2008 836871/079 SPEAG D1900/2 1900 MHz SAR Dipole 8/27/2007 Biennial 1/22/2009 1007 SPEAG D2450V2 2450 MHz SAR Dipole 9/26/2007 Biennial 9/26/2009 1007 SPEAG D5GHz/V2 5 GHz SAR Dipole 9/25/2007 Annual 1/22/2008 3550 SPEAG DAE4 5/24/2007 Annual 1/22/2008 3561 SPEAG DAE4 5/24/2007 Annual	Agilent	E5515C Wireless Communications Test Set	7/27/2006	Biennial	7/26/2008	GB41450275
Rohde & Schwarz NRVS Power Meter 7/3/2007 Biennial 7/2/2009 835360/079 Rohde & Schwarz NRV-Z53 Power Sensor 7/3/2007 Biennial 7/2/2009 846076/007 Rohde & Schwarz CMU200 Base Station Simulator 12/6/2007 Annual 12/5/2008 107826 Rohde & Schwarz CMU200 Base Station Simulator 9/7/2007 Annual 9/6/2008 833855/010 Rohde & Schwarz CMU200 Base Station Simulator 5/24/2007 Annual 5/23/2008 836371/079 SPEAG D1900V2 1900 MHz SAR Dipole 1/22/2007 Biennial 1/22/2009 602 SPEAG D2450V2 2450 MHz SAR Dipole 9/26/2007 Biennial 9/24/2009 1007 SPEAG D5GHzV2 5 GHz SAR Dipole 9/26/2007 Annual 1/22/2008 3550 SPEAG D5GHzV2 5 GHz SAR Probe 1/22/2007 Annual 5/23/2008 665 SPEAG DAE4 8/29/2007 Annual 8/28/2008 665 SPEAG DAE3 11/13/2007 Annual 10/26/2008	Agilent	E5515C Wireless Communications Test Set	10/6/2006	Biennial	10/5/2008	GB43193972
Rohde & Schwarz NRV-Z53 Power Sensor 7/3/2007 Biennial 7/2/2009 846076/007 Rohde & Schwarz CMU200 Base Station Simulator 12/6/2007 Annual 12/5/2008 107826 Rohde & Schwarz CMU200 Base Station Simulator 9/7/2007 Annual 9/6/2008 833855/010 Rohde & Schwarz CMU200 Base Station Simulator 5/24/2007 Annual 5/23/2008 836371/079 SPEAG D1900V2 1900 MHz SAR Dipole 1/23/2007 Biennial 1/22/2009 602 SPEAG D2450V2 2450 MHz SAR Dipole 8/25/2007 Biennial 9/26/2009 1/07 SPEAG D2450V2 2450 MHz SAR Dipole 9/25/2007 Biennial 9/24/2008 3550 SPEAG DSGHzV2 5 GHz SAR Dipole 9/25/2007 Annual 5/23/2008 704 SPEAG DAE4 5/24/2007 Annual 5/27/2008 3550 SPEAG DAE4 8/29/2007 Annual 8/28/2008 6665 SPEAG DAE4 8/29/2007 Annual 11/22/008 3022 <td>Agilent</td> <td>E5515C Wireless Communications Test Set</td> <td>10/26/2006</td> <td>Biennial</td> <td>10/25/2008</td> <td>GB46310798</td>	Agilent	E5515C Wireless Communications Test Set	10/26/2006	Biennial	10/25/2008	GB46310798
Rohde & Schwarz CMU200 Base Station Simulator 12/6/2007 Annual 12/5/2008 107826 Rohde & Schwarz CMU200 Base Station Simulator 9/7/2007 Annual 9/6/2008 833855/010 Rohde & Schwarz CMU200 Base Station Simulator 5/24/2007 Annual 5/23/2008 836371/079 SPEAG D1900V2 1900 MHz SAR Dipole 1/23/2007 Biennial 1/22/2009 502 SPEAG D2450V2 2450 MHz SAR Dipole 8/27/2007 Biennial 9/25/2009 4d026 SPEAG D5GHzV2 5 GHz SAR Dipole 9/25/2007 Biennial 9/25/2009 1007 SPEAG D5GHzV2 5 GHz SAR Dipole 1/22/2007 Annual 15/23/2008 3550 SPEAG EX3DV4 SAR Probe 5/28/2007 Annual 5/27/2008 3589 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/28/2008 6651 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/28/2008 6491 SPEAG DAE4 1/23/2007 Annual 8/29/2008 3022	Rohde & Schwarz	NRVS Power Meter	7/3/2007	Biennial	7/2/2009	835360/079
Rohde & Schwarz CMU/200 Base Station Simulator 9/7/2007 Annual 9/6/2008 83385/01079 Rohde & Schwarz CMU/200 Base Station Simulator 5/24/2007 Annual 9/6/2008 83385/01079 SPEAG D1900V2 1900 MHz SAR Dipole 1/23/2007 Biennial 1/22/2009 6202 SPEAG D836V2 835MHz SAR Dipole 9/26/2007 Biennial 9/25/2009 719 SPEAG D2450V2 2450 MHz SAR Dipole 9/25/2007 Biennial 9/22/2009 719 SPEAG D5GHzV2 5 GHz SAR Dipole 9/25/2007 Biennial 9/24/2009 1007 SPEAG D5GHzV2 5 GHz SAR Dipole 9/25/2007 Annual 1/22/2008 3550 SPEAG EX3DV4 SAR Probe 5/24/2007 Annual 5/24/2008 3561 SPEAG DAE4 8/29/2007 Annual 8/28/2008 665 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/28/2008 3022 SPEAG DAE3 11/13/2007 Annual 11/22/008 3022	Rohde & Schwarz	NRV-Z53 Power Sensor	7/3/2007	Biennial	7/2/2009	846076/007
Rohde & Schwarz CMU200 Base Station Simulator 5/24/2007 Annual 5/23/2008 836371/079 SPEAG D1900V2 1900 MHz SAR Dipole 1/23/2007 Biennial 1/22/2009 602 SPEAG D2450V2 2450 MHz SAR Dipole 8/27/2007 Biennial 8/26/2009 4d026 SPEAG D2450V2 2450 MHz SAR Dipole 9/26/2007 Biennial 9/25/2009 719 SPEAG D5GHzV2 5 GHz SAR Dipole 9/25/2007 Biennial 9/24/2009 1007 SPEAG D5GHzV2 5 GHz SAR Dipole 9/25/2007 Annual 1/22/008 3550 SPEAG EX3DV4 SAR Probe 1/22/007 Annual 5/23/2008 3569 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/28/2008 3665 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/28/2008 3022 SPEAG DAE4 8/20/2007 Annual 11/12/2008 3022 SPEAG DAE30 11/13/2007 Annual 11/20/2008 3022 SPEAG D	Rohde & Schwarz	CMU200 Base Station Simulator	12/6/2007	Annual	12/5/2008	107826
SPEAG D1900V2 1900 MHz SAR Dipole 1/23/2007 Biennial 1/22/2009 502 SPEAG D835V2 835MHz SAR Dipole 8/27/2007 Biennial 8/26/2009 4d026 SPEAG D2450V2 2450 MHz SAR Dipole 9/26/2007 Biennial 9/25/2009 719 SPEAG D5GHzV2 5 GHz SAR Dipole 9/25/2007 Biennial 9/24/2009 1007 SPEAG D5GHzV2 5 GHz SAR Dipole 9/25/2007 Annual 1/22/2008 3550 SPEAG D5GHzV2 5 GHz SAR Probe 1/22/2007 Annual 1/22/2008 3550 SPEAG DAE4 5/24/2007 Annual 5/23/2008 3569 SPEAG DAE4 8/29/2007 Annual 8/28/2008 665 SPEAG DAE4 8/29/2007 Annual 8/29/2008 3022 SPEAG DAE4 8/30/2007 Annual 10/26/2008 3022 SPEAG DAE3DV2 SAR Probe 10/27/2007 Annual 11/12/2008 4455 SPEAG DAE4 1/23/2007	Rohde & Schwarz	CMU200 Base Station Simulator	9/7/2007	Annual	9/6/2008	833855/010
SPEAG D835V2 835MHz SAR Dipole 8/27/2007 Biennial 8/26/2009 4d026 SPEAG D2450V2 2450 MHz SAR Dipole 9/26/2007 Biennial 9/25/2009 719 SPEAG D5GHzV2 5 GHz SAR Dipole 9/26/2007 Biennial 9/24/2009 1007 SPEAG EX3DV4 SAR Probe 1/22/2007 Annual 1/22/2008 3550 SPEAG DAE4 5/24/2007 Annual 5/23/2008 704 SPEAG EX3DV4 SAR Probe 5/28/2007 Annual 5/27/2008 3589 SPEAG DAE4 8/29/2007 Annual 8/28/2008 665 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/29/2008 3561 SPEAG ES3DV2 SAR Probe 10/27/2007 Annual 10/26/2008 3022 SPEAG DAE3 11/13/2007 Annual 11/12/2008 649 SPEAG D2600V2 2600MHz SAR Dipole 1/5/2007 Annual 11/23/2008 649 SPEAG D2600V2 2600Hz SAR Dipole 1/5/2007	Rohde & Schwarz	CMU200 Base Station Simulator	5/24/2007	Annual	5/23/2008	836371/079
SPEAG D2450V2 2450 MHz SAR Dipole 9/26/2007 Biennial 9/25/2009 719 SPEAG D5GHzV2 5 GHz SAR Dipole 9/25/2007 Biennial 9/24/2009 1007 SPEAG EX3DV4 SAR Probe 1/22/2007 Annual 1/22/2008 3550 SPEAG DAE4 5/24/2007 Annual 5/23/2008 704 SPEAG EX3DV4 SAR Probe 5/28/2007 Annual 8/28/2008 665 SPEAG DAE4 8/29/2007 Annual 8/28/2008 665 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/29/2008 3561 SPEAG EX3DV2 SAR Probe 10/27/2007 Annual 10/26/2008 3022 SPEAG DAE3 11/13/2007 Annual 11/12/2008 455 SPEAG DAE4 1/23/2007 Annual 11/2/2008 649 SPEAG D2600V2 2600MHz SAR Dipole 11/5/2007 Annual 11/2/2008 1004 Agilent HP 85070B Dielectric Probe Kit N/A Annual <td>SPEAG</td> <td>D1900V2 1900 MHz SAR Dipole</td> <td>1/23/2007</td> <td>Biennial</td> <td>1/22/2009</td> <td>502</td>	SPEAG	D1900V2 1900 MHz SAR Dipole	1/23/2007	Biennial	1/22/2009	502
SPEAG D5GHzV2 5 GHz SAR Dipole 9/25/2007 Biennial 9/24/2009 1007 SPEAG EX3DV4 SAR Probe 1/22/2007 Annual 1/22/2008 3550 SPEAG DAE4 5/24/2007 Annual 5/23/2008 704 SPEAG EX3DV4 SAR Probe 5/28/2007 Annual 5/27/2008 3589 SPEAG EX3DV4 SAR Probe 8/29/2007 Annual 8/28/2008 665 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/29/2008 3561 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 10/26/2008 3022 SPEAG EX3DV2 SAR Probe 10/27/2007 Annual 11/12/2008 3022 SPEAG DAE3 11/13/2007 Annual 11/22/2008 3022 SPEAG DAE60V2 2600MHz SAR Dipole 1/5/2007 Annual 11/22/2008 455 SPEAG D2600V2 260MHz SAR Dipole 1/5/2007 Annual 1/5/2008 1004 Aglient HP 85070B Dielectric Probe Kit N/A	SPEAG	D835V2 835MHz SAR Dipole	8/27/2007	Biennial	8/26/2009	4d026
SPEAG EX3DV4 SAR Probe 1/22/2007 Annual 1/22/2008 3550 SPEAG DAE4 5/24/2007 Annual 5/23/2008 704 SPEAG EX3DV4 SAR Probe 5/28/2007 Annual 5/27/2008 3589 SPEAG DAE4 8/29/2007 Annual 8/28/2008 665 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/29/2008 3561 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/29/2008 3561 SPEAG EX3DV4 SAR Probe 10/27/2007 Annual 10/26/2008 3022 SPEAG DAE3 11/13/2007 Annual 11/12/2008 455 SPEAG DAE4 1/23/2007 Annual 1/23/2008 649 SPEAG DAE4 1/23/2007 Annual 1/23/2008 649 SPEAG D2600V2 2600MHz SAR Dipole 1/5/2007 Annual 1/5/2008 1004 Agilent HP 85070B Dielectric Probe Kit N/A Annual 3/7/2008	SPEAG	D2450V2 2450 MHz SAR Dipole	9/26/2007	Biennial	9/25/2009	719
SPEAG DAE4 5/24/2007 Annual 5/23/2008 704 SPEAG EX3DV4 SAR Probe 5/28/2007 Annual 5/27/2008 3589 SPEAG DAE4 8/29/2007 Annual 8/28/2008 665 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/28/2008 3561 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 10/26/2008 3022 SPEAG ES3DV2 SAR Probe 10/27/2007 Annual 11/12/2008 455 SPEAG DAE3 11/13/2007 Annual 11/23/2008 649 SPEAG D2600V2 2600MHz SAR Dipole 1/5/2007 Annual 11/27/208 1004 Agilent HP 85070B Dielectric Probe Kit N/A Annual N/A 352 Agilent E8257D (250KHz-20GHz) Signal Generator 3/8/2007 Annual 3/7/2008 MY45470194 Rohde & Schwarz NRV-Z33 Peak Power Sensor (1mW-20W) 11/28/2006 Biennial 11/27/2008 100055 Rohde & Schwarz NRV-Z32 Peak P	SPEAG	D5GHzV2 5 GHz SAR Dipole	9/25/2007	Biennial	9/24/2009	1007
SPEAG EX3DV4 SAR Probe 5/28/2007 Annual 5/27/2008 3589 SPEAG DAE4 8/29/2007 Annual 8/28/2008 665 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/29/2008 3561 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/29/2008 3561 SPEAG ES3DV2 SAR Probe 10/27/2007 Annual 10/26/2008 3022 SPEAG DAE3 11/13/2007 Annual 11/12/2008 455 SPEAG D2600V2 2600MHz SAR Dipole 1/5/2007 Annual 1/23/2008 649 SPEAG D2600V2 2600MHz SAR Dipole 1/5/2007 Annual 1/23/2008 649 SPEAG D2600V2 2600MHz SAR Dipole 1/5/2007 Annual 1/23/2008 1004 Agilent HP 85070B Dielectric Probe Kit N/A Annual 3/7/2008 MY45470194 Rohde & Schwarz NRV-D Dual Channel Power Meter 12/11/2006 Biennial 11/27/2008 100014 Rohde & Schwarz NRV-Z3	SPEAG	EX3DV4 SAR Probe	1/22/2007	Annual	1/22/2008	3550
SPEAG DAE4 8/29/2007 Annual 8/28/2008 665 SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/29/2008 3561 SPEAG ES3DV2 SAR Probe 10/27/2007 Annual 10/26/2008 3022 SPEAG ES3DV2 SAR Probe 10/27/2007 Annual 11/12/2008 3022 SPEAG DAE3 11/13/2007 Annual 11/12/2008 455 SPEAG DAE4 1/23/2007 Annual 11/23/2008 649 SPEAG D2600V2 2600MHz SAR Dipole 1/5/2007 Annual 11/5/2008 1004 Agilent HP 85070B Dielectric Probe Kit N/A Annual N/A 352 Agilent E8257D (250kHz-20GHz) Signal Generator 3/8/2007 Annual 3/7/2008 MY45470194 Rohde & Schwarz NRVD Dual Channel Power Meter 12/11/2006 Biennial 11/27/2008 100044 SPEAG D835V2 835MHz SAR Dipole 1/8/2007 Biennial 11/2009 4d047 Rohde & Schwarz NRV-Z32 P	SPEAG	DAE4	5/24/2007	Annual	5/23/2008	704
SPEAG EX3DV4 SAR Probe 8/30/2007 Annual 8/29/2008 3561 SPEAG ES3DV2 SAR Probe 10/27/2007 Annual 10/26/2008 3022 SPEAG DAE3 11/13/2007 Annual 11/12/2008 455 SPEAG DAE3 11/13/2007 Annual 11/12/2008 649 SPEAG D2600V2 2600MHz SAR Dipole 1/5/2007 Annual 1/5/2008 1004 Agilent HP 85070B Dielectric Probe Kit N/A Annual N/A 352 Agilent E8257D (250KHz-20GHz) Signal Generator 3/8/2007 Annual 3/7/2008 MY45470194 Rohde & Schwarz NRVD Dual Channel Power Meter 12/11/2006 Biennial 11/27/2008 10004 Rohde & Schwarz NRV-Z33 Peak Power Sensor (1mW-20W) 11/28/2006 Biennial 11/27/2008 100004 SPEAG D835V2 835MHz SAR Dipole 1/8/2007 Biennial 1/2/2009 4d047 Rohde & Schwarz NRV-Z32 Peak Power Sensor (100W-2W) 12/21/2006 Biennial 1/22/2009 5d080	SPEAG	EX3DV4 SAR Probe	5/28/2007	Annual	5/27/2008	3589
SPEAG ES3DV2 SAR Probe 10/27/2007 Annual 10/26/2008 3022 SPEAG DAE3 11/13/2007 Annual 11/12/2008 455 SPEAG DAE4 1/23/2007 Annual 1/23/2008 649 SPEAG D2600V2 2600MHz SAR Dipole 1/5/2007 Annual 1/5/2008 1004 Agilent HP 85070B Dielectric Probe Kit N/A Annual N/A 352 Agilent E8257D (250KHz-20GHz) Signal Generator 3/8/2007 Annual 3/7/2008 MY45470194 Rohde & Schwarz NRVD Dual Channel Power Meter 12/11/2006 Biennial 11/27/2008 1001695 Rohde & Schwarz NRV-Z33 Peak Power Sensor (100W-20W) 11/28/2006 Biennial 11/27/2008 100004 SPEAG D1900V2 1900MHz SAR Dipole 1/8/2007 Biennial 1/22/2009 5d080 SPEAG D1900V2 1900MHz SAR Dipole 1/23/2007 Biennial 1/22/2009 5d080 SPEAG D1900V2 1900MHz SAR Dipole 1/23/2007 Biennial 1/22/2009 5d080 <td>SPEAG</td> <td>DAE4</td> <td>8/29/2007</td> <td>Annual</td> <td>8/28/2008</td> <td>665</td>	SPEAG	DAE4	8/29/2007	Annual	8/28/2008	665
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SPEAG D1450V2 1450 MHz SAR Dipole 6/11/2007 Biennial 6/10/2009 1025	SPEAG	D5GHzV2 5GHz SAR Dipole	1/24/2007	Biennial	1/23/2009	1057
	SPEAG	D1800V2 1800MHz SAR Dipole	11/20/2006	Biennial	11/19/2008	2d106
SPEAG D1765V2 1765 MHz SAR Dipole 6/11/2007 Biennial 6/10/2009 1008	SPEAG	D1450V2 1450 MHz SAR Dipole	6/11/2007	Biennial	6/10/2009	1025
	SPEAG	D1765V2 1765 MHz SAR Dipole	6/11/2007	Biennial	6/10/2009	1008

Notes:

The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Validation measurement is performed by PCTEST prior to SAR evaluation. The brain simulating material is calibrated by PCTEST using the dielectric probe system and network analyzer to determine the conductivity and permittivity (dielectric constant) of the brain-equivalent material.

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FCC ID: OU52014748-002	ENGINEERING LASORATORY, INC.	CERTIFICATION REPORT	GE Healthcare	Quality Manager	
Filename:	Test Dates:	EUT Type:		Page 15 of 18	
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Transmitter (WMTS)		Page 15 01 16	
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13 CONCLUSION

13.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

FCC ID: OU52014748-002			Reviewed by:		
		CERTIFICATION REPORT	Quality Manager		
Filename:	Test Dates:	EUT Type:	Page 16 of 18		
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Transmitter (WMTS)	Fage 10 01 10		
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FCC ID: OU52014748-002		CERTIFICATION REPORT	GE Healthcare	Reviewed by:
				Quality Manager
Filename:	Test Dates:	EUT Type:		Page 17 of 18
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Transmitter (WMTS)		Fage 17 01 10

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FCC ID: OU52014748-002		CERTIFICATION REPORT	GE Healthcare	Reviewed by: Quality Manager
Filename:	Test Dates:	EUT Type:		Page 18 of 18
0707180745-R5.OU5	7/26/2007 & 12/13/2007	Wireless Medical Telemetry Transmitter (WMTS)		
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