Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Exhibit 11: SAR Test Report of Portable Cellular Phone
FCC ID: PY7AF052041 Model : W710i

Date of test: June 17 – July 10, 2006
Date of Report: July 20, 2006

Laboratory: SAR Testing Laboratory Sony Ericsson Mobile Communications, Inc. 7001 Development Drive, P.O. Box 13969, Research Triangle Park, NC, 27709, USA

Tested by: Rodney Dixon
Eng. Technician IV, Product Verification Group

Test Responsible: Gerard Hayes 20 July 2006
Technical Manager

Accreditation: This laboratory is accredited to ISO/IEC 17025-1999 to perform the following electromagnetic exposure tests:

- Specific Absorption Rate (SAR)
- Dielectric parameters
- RF power measurement

On the following types of products:
Wireless communications devices. A2LA certificate #1650-01

Statement of Compliance: Sony Ericsson Mobile Communications, Inc declares under its sole responsibility that portable cellular telephone FCC ID PY7AF052041 model W710i to which this declaration relates, is in conformity with the appropriate General Population/Uncontrolled RF exposure standards, recommendations and guidelines (FCC 47 CFR §2.1093). It also declares that the product was tested in accordance with the appropriate measurement standards, guidelines and recommended practices. Any deviations from these standards, guidelines and recommended practices are noted below:

(none)

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Table of Contents

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

1. Introduction

The Sony Ericsson SAR Laboratory has performed measurements of the maximum potential exposure to the user of portable cellular phone FCC ID PY7AF052041 model W710i. The Specific Absorption Rate (SAR) of this product was measured. The applicable RF safety guidelines and the SAR measurement specifications used for the test are described in [1].

2. Description of the Device Under Test

2.1 Antenna description

Type	PIFA- Type Antenna	
Location	External plastic loop, near the hinge	
Dimensions	Width	40.5 mm
	Length	7.7 mm
	Height	11.6 mm

2.2 Device description

FCC ID Number / Device Model	PY7AF052041 / W710i				
Serial number	BD3090HLNZ BD3090HMLQ		BD3090HLUJ		
Mode(s) of Operation Transmitting Frequency Range	GSM 800 824-849 MHz		GSM 1900 1850-1910 MHz		
Modulation Mode(s)	TDMA		TDMA		
Target Value and Factory Tolerance Window for Maximum Output Power Setting GSM Mode: 1/8 Duty Cycle	f_{low}	31.5 dBm +0.2/-1.0 dB	f_{low}	29.8 dBm +0.2/-1.0 dB	
	f_{mid}	32.1 dBm +0.2/-1.0 dB	f_{mid}	30.0 dBm +0.2/-1.0 dB	
	f_{high}	32.1 dBm +0.2/-1.0 dB	f_{high}	30.6 dBm +0.2/-1.0 dB	
GPRS Mode: 2/8 Duty Cycle Target Maximum Output Power Setting (adjusted from GSM mode)	f_{low}	30.2 dBm max.	f_{low}	Same as GSM 1:8	
	f_{mid}	30.3 dBm max.	f_{mid}	Same as GSM 1:8	
	f_{high}	30.3 dBm max	f_{high}	Same as GSM 1:8	
EGPRS Mode: 2/8 Duty Cycle Target Maximum Output Power Setting (adjusted from GSM mode)	f_{low}	28.0 dBm max.	f_{low}	27.5 dBm max.	
	f_{mid}	28.2 dBm max.	f_{mid}	27.2 dBm max.	
	f_{high}	28.2 dBm max	f_{high}	27.2 dBm max	
Calibration Frequency	f_{high}		f_{mid}		
Production Unit or Identical Prototype (47 CFR §2..908)	Identical Prototype				
Device Category	Portable				
RF Exposure Limits	General Population / Uncontrolled				

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

3. Test Equipment Used

3.1 Dosimetric System

The Sony Ericsson SAR Laboratory utilizes Dosimetric Assessment Systems (Dasy4™) for adjacent to head and body-worn measurements manufactured by Schmid & Partner Engineering AG (SPEAG™), of Zurich Switzerland. The overall RSS uncertainty of the measurement system is ±9.7% (K=1) with an expanded uncertainty of ±19.4% (K=2) for Dasy4™. The measurement uncertainty budget is given in Appendix 5 for the system. The list of calibrated equipment used for the measurements is shown in the following table.

Description	Serial Number	Cal Due Date
DASY3 DAE V1	345	10-Nov-2006
DASY3 DAE V1	416	10-Nov-2006
E-Field Probe ETDV6	1539	22-Nov-2006
E-Field Probe ETDV6	1583	22-Nov-2006
Dipole Validation Kit, DV835V2	429	21-Nov-2006
Dipole Validation Kit, DV1900V2	537	15-Nov-2006
S.A.M. Phantom used for 835MHz (Head)	1251	
S.A.M. Phantom used for 835MHz (Body)	1031	
S.A.M. Phantom used for 900MHz (Head and Body)	1251	
S.A.M. Phantom used for 1800MHz (Head and Body)	1335	
S.A.M. Phantom used for 1900MHz (Head)	1335	
S.A.M. Phantom used for 1900MHz (Body)	1020	

3.2 Additional Equipment

Description	Serial Number	Cal Due Date
Signal Generator HP8648C	3537A01598	August 30, 2006
Power Meter 437B	3125U16382	December 5, 2006
Power Meter 437B	3110A05257	March 28, 2007
Power Sensor - 8482H	2704A06235	December 30, 2006
Power Sensor - 8482H	MY41090239	March 28, 2007
Dielectric Probe Kit HP85070B	US33020390	April 4, 2007
Digital Thermometer 61220-601 And Probe (61220-604)	350078	November 9, 2006
Digital Hygrometer/ Thermometer	21242911	November 9, 2006
HP RF Amplifier 8347A	3307A1069	May 16, 2007

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

4. Electrical parameters of the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity, ε_r, and the conductivity, σ, of the tissue simulating liquids were measured with the dielectric probe kit. These values, along with the temperature of the simulated tissue are shown in the table below. A mass density of ρ=1g/cm3 was entered into the system in all the cases. It can be seen that the measured parameters are within tolerance of the recommended limits [1]. During the tests, the ambient temperature of the laboratory was in the range 20.9-24.8 °C, the relative humidity was in the range 39.1 – 50.4 % and the liquid depth above the ear reference points was above 15.0 cm in all the cases. It is seen that the measured parameters are satisfactory for compliance testing.

f (MHz)	Tissue type	Limits / Measured	Dielectric Parameters		
			e_r	s (S/m)	Simulated Tissue Temp (°C)
835	Head	Measured, 17-June-06	39.75	0.879	24
		Recommended Limits	**41.50**	**0.90**	**20-25**
	Body	Measured, 18-June-06	52.72	1.003	24.5
		Measured, 19-June-06	54.15	1.009	23.9
		Recommended Limits	**55.20**	**0.97**	**20-25**
1900	Head	Measured, 20-June-06	38.04	1.45	21.1
		Recommended Limits	**40.00**	**1.40**	**20-25**
	Body	Measured, 21-June-06	51.21	1.525	22.3
		Measured, 06-July-06	50.86	1.524	22.7
		Recommended Limits	**53.30**	**1.52**	**20-25**

The list of ingredients and the percent composition used for the simulated tissue are indicated in the table below.

Ingredient	800/900 MHz Head 900MHz Body	800MHz Body	1800/1900 MHz Head 1800MHz Body	1900MHz Body
Sugar	57.99%	56.00%	--	--
DGBE	--	--	44.92%	30.82%
Water	39.72%	41.76%	54.90%	68.89%
Salt	1.18%	0.76%	0.18%	0.29%
HEC	0.92%	1.21%	--	--
Bact.	0.19%	0.27%	--	--

Prepared (also subject responsible if other)	No.		
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02		
Approved / Checked			
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

5. System Accuracy Verification

A system accuracy verification of the DASY4 was performed using the measurement equipment listed in Section 3.1. The daily system accuracy verification occurs within the flat section of the SAM phantom.

A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR indicated on the dipole certification sheet. These tests were done at 835MHz/900MHz and/or 1800MHz/1900MHz. These frequencies are within 100MHz of the mid-band frequency of the test device, according to [1]. The test was conducted on the same days as the measurement of the DUT. The results from the system accuracy verification are displayed in the table below (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature of the laboratory was in the range 20.9-24.8 °C, the relative humidity was in the range 39.1 – 50.4 % and the liquid depth above the ear reference points was above 15.0 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values. The SAR distributions are shown in Appendix 1.

Daily, prior to conducting tests, measurements were made with the RF sources powered off to determine the system noise level. The highest system noise was 0.00066 W/kg, which is below the recommended limit in [1].

f (MHz)	Tissue Type	Description	SAR (W/kg) 1g	SAR (W/kg) 10g	Dielectric Parameters e_r	Dielectric Parameters s (S/m)	Tissue Temp (°C)
835	Head	Measured, 17-June-06	8.8	5.8	39.75	0.879	24
		Recommended Limits	**9.50**	**6.20**	**41.50**	**0.90**	**20-25**
	Body	Measured, 18-June-06	9.6	6.3	52.72	1.003	24.5
		Measured, 19-June-06	9.5	6.2	54.15	1.009	23.9
		Recommended Limits	**9.90**	**6.46**	**55.20**	**0.97**	**20-25**
1900	Head	Measured, 20-June-06	41.1	21.6	38.04	1.45	21.1
		Recommended Limits	**39.70**	**20.50**	**40.00**	**1.40**	**20-25**
	Body	Measured, 21-June-06	42.8	22.7	51.21	1.525	22.3
		Measured, 06-July-06	41.7	22.1	50.86	1.524	22.7
		Recommended Limits	**40.50**	**20.89**	**53.30**	**1.52**	**20-25**

6. Test Results

For both head measurements (with a 1/8 GSM duty cycle) and body measurements (2/8 E/GPRS duty cycle), the test sample was operated using a base station simulator that allows control of the transmitter using the signally software that installed on the phone call. For the purposes of these tests, the unit is commanded to set to the proper channel, transmitter power level and transmit mode of operation. The phone was tested in the configurations stipulated in [1,2]. The phone was positioned into these configurations using the positioner supplied with the DASY4 SAR measurement system.

The Cellular Phone FCC ID PY7AF052041 has the following battery option:
BKB 193 203 (BST-37) Standard Lithium Polymer Battery

The phone was placed in the SAR measurement system with a fully charged battery.

6.1 Head Adjacent Test Results

The SAR results shown in Tables 1 and 2 are maximum SAR values averaged over 1 gram and 10 grams of phantom tissue. Also shown are the measured conducted output powers, the temperature of the test facility during the test, the temperature of the simulated tissue, the measured drift, and the extrapolated SAR. The extrapolated SAR corresponds to the measured SAR scaled to the maximum conducted output power.

During the tests, the ambient temperature of the laboratory was in the range 20.9-24.8 °C, the relative humidity was in the range 39.1 – 50.4 % and the liquid depth above the ear reference points was above 15.0 cm in all the cases.

The test conditions indicated as bold numbers in the following table are included in Appendix 2. All other test conditions measured lower SAR values than those included.

Summary of Maximum Extrapolated SAR Results : Head Adjacent			
Frequency	**Extrapolated SAR (W/kg)**		**Test Configuration**
	1 g	**10 g**	
800 GSM	**1.35**	**0.85**	Right head, cheek/touch position, 824 MHz BST-37 battery, Bluetooth On
1900 GSM	**0.76**	**0.36**	Right head, cheek/touch position, 1880 MHz BST-37 battery, Bluetooth On

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PY7AF052041 with Standard Battery BST-37 Left Head (Cheek / Touch Position)						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	**128 / 824**	**31.7**	**1.130**	**0.754**	**-0.20**	**1.13**	**0.75**	24.2	24.1
	189 / 837	32.3	0.962	0.639	-0.11	0.96	0.64		
	251 / 849	32.3	0.720	0.478	-0.02	0.72	0.48		
1900 GSM	**512 / 1850**	**29.9**	**0.561**	**0.270**	**-0.07**	**0.56**	**0.27**	21.2	21
	660/1880	30.2	0.556	0.264	0.04	0.56	0.26		
	810/1910	30.8	0.439	0.212	-0.15	0.44	0.21		

f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PY7AF052041 with Standard Battery BST-37 Left Head (15° Tilt Position)						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	**128 / 824**	**31.7**	**0.329**	**0.242**	**-0.02**	**0.33**	**0.24**	24.2	24.1
	189 / 837	32.3	0.276	0.202	0.15	0.28	0.20		
	251 / 849	32.3	0.215	0.158	0.16	0.22	0.16		
1900 GSM	512 / 1850	29.9	0.050	0.033	-0.01	0.05	0.03	21.6	21.2
	660/1880	**30.2**	**0.062**	**0.041**	**-0.05**	**0.06**	**0.04**		
	810/1910	30.8	0.049	0.032	-0.05	0.49	0.03		

Table 1: SAR measurement results for the portable cellular telephone FCC ID PY7AF052041 model W710i at maximum output power with Standard Battery BST-37. Measured against the left head.

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PY7AF052041 with Standard Battery BST-37 Right Head (Cheek / Touch Position)						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	128 / 824	31.7	1.250	0.804	0.03	1.25	0.80	24.1	24
	189 / 837	32.3	1.140	0.727	0.00	1.14	0.73		
	251 / 849	32.3	0.837	0.533	-0.04	0.84	0.53		
Bluetooth On	**128 / 824**	**31.7**	**1.35**	**0.852**	**0.03**	**1.35**	**0.85**	24.2	24.1
1900 GSM	512 / 1850	29.9	0.754	0.354	-0.041	0.75	0.35	20.9	21.1
	660/1880	30.2	0.759	0.356	-0.03	0.76	0.36		
	810/1910	30.8	0.617	0.297	-0.03	0.62	0.30		
Bluetooth On	**660/1880**	**30.2**	**0.755**	**0.36**	**0.14**	**0.76**	**0.36**	21.6	21.2

f (MHz)	Channel/ frequency	Conducted Output Power (dBm) GSM 1:8 Duty Cycle	FCC ID PY7AF052041 with Standard Battery BST-37 Right Head (15° Tilt Position)						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	**128 / 824**	**31.7**	**0.340**	**0.252**	**-0.08**	**0.34**	**0.25**	24.2	24
	189 / 837	32.3	0.301	0.223	0.00	0.30	0.22		
	251 / 849	32.3	0.230	0.171	0.02	0.23	0.17		
1900 GSM	512 / 1850	29.9	0.048	0.033	-0.07	0.05	0.03	21.1	21
	660/1880	**30.2**	**0.062**	**0.042**	**-0.05**	**0.06**	**0.04**		
	810/1910	30.8	0.052	0.033	0.10	0.05	0.03		

Table 2: SAR measurement results for the portable cellular telephone FCC ID PY7AF052041 model W710i at maximum output power with Standard Battery BST-37. Measured against the right head.

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

6.2 Body-Worn Test Results

The SAR results shown in Tables 3 through 5 are the maximum SAR values averaged over 1gram and 10 grams of phantom tissue. Also shown are the measured conducted output powers, the temperature of the test facility during the test, the temperature of the simulated tissue after the test, the measured drift and the extrapolated SAR. The extrapolated SAR corresponds to the measured SAR scaled to the maximum conducted output power.

A "flat" phantom was used for the body-worn tests. This "flat" phantom corresponds to the flat portion of the SAM phantom. During the tests, the ambient temperature of the laboratory was in the range 20.9-24.8 °C, the relative humidity was in the range 39.1 – 50.4 % and the liquid depth above the ear reference points was above 15.0 cm in all the cases. The same device holder described in section 6 was used for positioning the phone. The cellular phone was tested with a headset (HBP-20) connected to the device for all body-worn SAR measurements.

The following body-worn accessories were tested for this phone:

-15 mm spacer
-ICE26 Carry Case
-IAC60 Carry Case

A full data set output of the test conditions with the highest SAR values from the DASY™ measurement system is included as Appendix 3. These test conditions included are indicated as bold numbers in the following tables. All other test conditions measured lower SAR values than those included.

Summary of Maximum Extrapolated SAR Results: Body-worn			
Frequency	**Extrapolated SAR (W/kg)**		**Test Configuration**
	1 g	**10 g**	
800 GSM	**0.81**	**0.55**	15mm SPACER Carry Accessory, back of phone facing body, 824 MHz, 2:8 Duty Cycle, BST-37 battery
1900 GSM	**0.73**	**0.42**	15mm SPACER Carry Accessory, back of phone facing body, 1850MHz, 2:8 Duty Cycle BST-37 battery, Bluetooth On

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

f (MHz)	Operating Condition	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7AF052041 with Standard Battery BST-37 Body Worn Carry Accessory: 15mm SPACER Back of phone facing body						
				Measured (W/kg) 1g / 10g	Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)	
Back of phone facing body										
800 GSM	2:8 Duty Cycle	**128 / 824**	**30.2**	**0.805**	**0.550**	**-0.03**	**0.81**	**0.55**	24.6	24.5
		189 / 837	30.3	0.627	0.422	-0.03	0.63	0.42		
		251 / 849	30.3	0.517	0.349	0.04	0.52	0.35		
	Bluetooth On	128 / 824	30.2	0.803	0.547	0.01	0.80	0.55	23.4	23.6
	1:8 Duty Cycle	128 / 824	31.7	0.56	0.38	-0.02	0.56	0.38	23.4	23.6
1900 GSM	2:8 Duty Cycle	512 / 1850	29.9	0.717	0.450	-0.03	0.72	0.45	23	22.7
		660/1880	30.2	0.608	0.373	0.00	0.61	0.37		
		810/1910	30.8	0.579	0.340	0.00	0.58	0.34		
	Bluetooth On	**512 / 1850**	**29.9**	**0.725**	**0.424**	**-0.12**	**0.73**	**0.42**	23.1	22.8
	1:8 Duty Cycle	512 / 1850	29.9	0.35	0.21	0.01	0.35	0.21	23.1	22.8
Front of phone facing body										
800 GSM	2:8 Duty Cycle	**128 / 824**	**30.2**	**0.211**	**0.149**	**-0.11**	**0.21**	**0.15**	24	23.9
		189 / 837	30.3	0.194	0.137	0.07	0.19	0.14		
		251 / 849	30.3	0.128	0.091	0.02	0.13	0.09		
1900 GSM	2:8 Duty Cycle	**512 / 1850**	**29.9**	**0.215**	**0.141**	**-0.04**	**0.22**	**0.14**	22.4	22.3
		660/1880	30.2	0.120	0.081	-0.10	0.12	0.08		
		810/1910	30.8	0.078	0.051	-0.17	0.08	0.05		

Table 3: SAR measurement results for the portable cellular telephone FCC ID PY7AF052041 model W710i at maximum output power with Standard Battery BST-37. Measured against the body with carry accessory 15mm Spacer.

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

f (MHz)	Operating Condition	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7AF052041 with Standard Battery BST-37 Body Worn Carry Accessory: ICE26 carry case Back of phone facing body						
				Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
Back of phone facing body										
800 GSM	2:8 Duty Cycle	**128 / 824**	**30.2**	**0.584**	**0.405**	**-0.04**	**0.58**	**0.41**	24.6	24.5
		189 / 837	30.3	0.459	0.316	0.00	0.46	0.32		
		251 / 849	30.3	0.469	0.322	0.03	0.47	0.32		
1900 GSM	2:8 Duty Cycle	**512 / 1850**	**29.9**	**0.628**	**0.398**	**-0.16**	**0.63**	**0.40**	23.2	22.8
		660/1880	30.2	0.620	0.406	-0.04	0.62	0.41		
		810/1910	30.8	0.472	0.285	-0.07	0.47	0.29		
Front of phone facing body										
800 GSM	2:8 Duty Cycle	**128 / 824**	**30.2**	**0.220**	**0.157**	**-0.04**	**0.22**	**0.16**	24	23.9
		189 / 837	30.3	0.145	0.105	0.00	0.15	0.11		
		251 / 849	30.3	0.108	0.078	0.01	0.11	0.08		
1900 GSM	2:8 Duty Cycle	**512 / 1850**	**29.9**	**0.216**	**0.138**	**-0.15**	**0.22**	**0.14**	22.4	22.3
		660/1880	30.2	0.109	0.072	0.13	0.11	0.07		
		810/1910	30.8	0.068	0.045	-0.12	0.07	0.04		

Table 4: SAR measurement results for the portable cellular telephone FCC ID PY7AF052041 model W710i at maximum output power with Standard Battery BST-37. Measured against the body with carry accessory ICE26 carry case.

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

f (MHz)	Operating Condition	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7AF052041 with Standard Battery BST-37 Body Worn Carry Accessory: IAC60 carry case Back of phone facing body						
				Measured (W/kg) 1g / 10g	Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)	
Back of phone facing body										
800 GSM	2:8 Duty Cycle	**128 / 824**	**30.2**	**0.387**	**0.271**	**0.01**	**0.39**	**0.27**	24.6	24.5
		189 / 837	30.3	0.313	0.218	0.03	0.31	0.22		
		251 / 849	30.3	0.293	0.204	0.05	0.29	0.20		
1900 GSM	2:8 Duty Cycle	**512 / 1850**	**29.9**	**0.475**	**0.310**	**-0.13**	**0.48**	**0.31**	23.1	22.8
		660/1880	30.2	0.441	0.286	-0.03	0.44	0.29		
		810/1910	30.8	0.422	0.261	-0.03	0.42	0.26		

Table 5: SAR measurement results for the portable cellular telephone FCC ID PY7AF052041 model W710i at maximum output power with Standard Battery BST-37. Measured against the body with carry accessory IAC60 carry case. Note: A front facing phone position is not supported by this accessory.

References

[1] FCC, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions," Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01).

[2] IEEE, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," Std 1528-200X, Draft 6.5 – August 20, 2001.

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Appendix 1

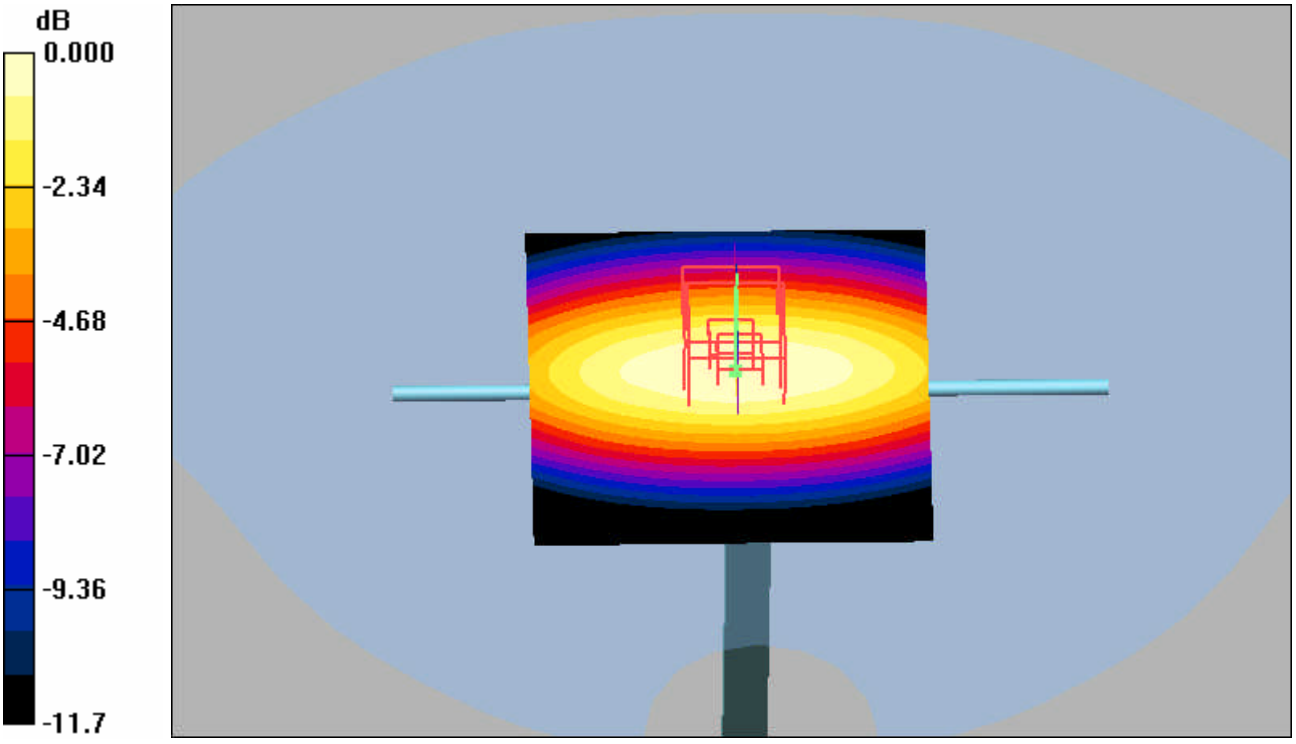
SAR distribution comparison for the system accuracy verification

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

835 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check (Using head tissue).
Validation_835Head_429_1251_17June06_T01

File Name: Validation_835Head_429_1251_17June06_T01.da4

Phantom: SAM with CRP (Low Band Head)Phantom section: Flat Section
Probe: ET3DV6 - SN1583ConvF(6.82, 6.82, 6.82)Duty Cycle: 1:1Frequency: 835 MHz
Medium parameters used: f = 835 MHz; s = 0.88 mho/m; e_r = 39.7; ? = 1000 kg/m^3
Measurement Standard: DASY4 (High Precision Assessment)
Dipole at 10 mm/Area Scan (61x61x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.955 mW/g
Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.8 V/m; Power Drift = 0.007 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.886 mW/g; SAR(10 g) = 0.577 mW/g
Maximum value of SAR (measured) = 0.954 mW/g
Dipole at 10 mm/Zoom Scan 2 (9x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.8 V/m; Power Drift = 0.007 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.864 mW/g; SAR(10 g) = 0.562 mW/g
Maximum value of SAR (measured) = 0.934 mW/g
Procedure Notes: Pin: before 100.2 mW / after 100.4 mW
Humidity: 39.5% Ambient Temp: 24.1 C Simulant Temp: 24 C



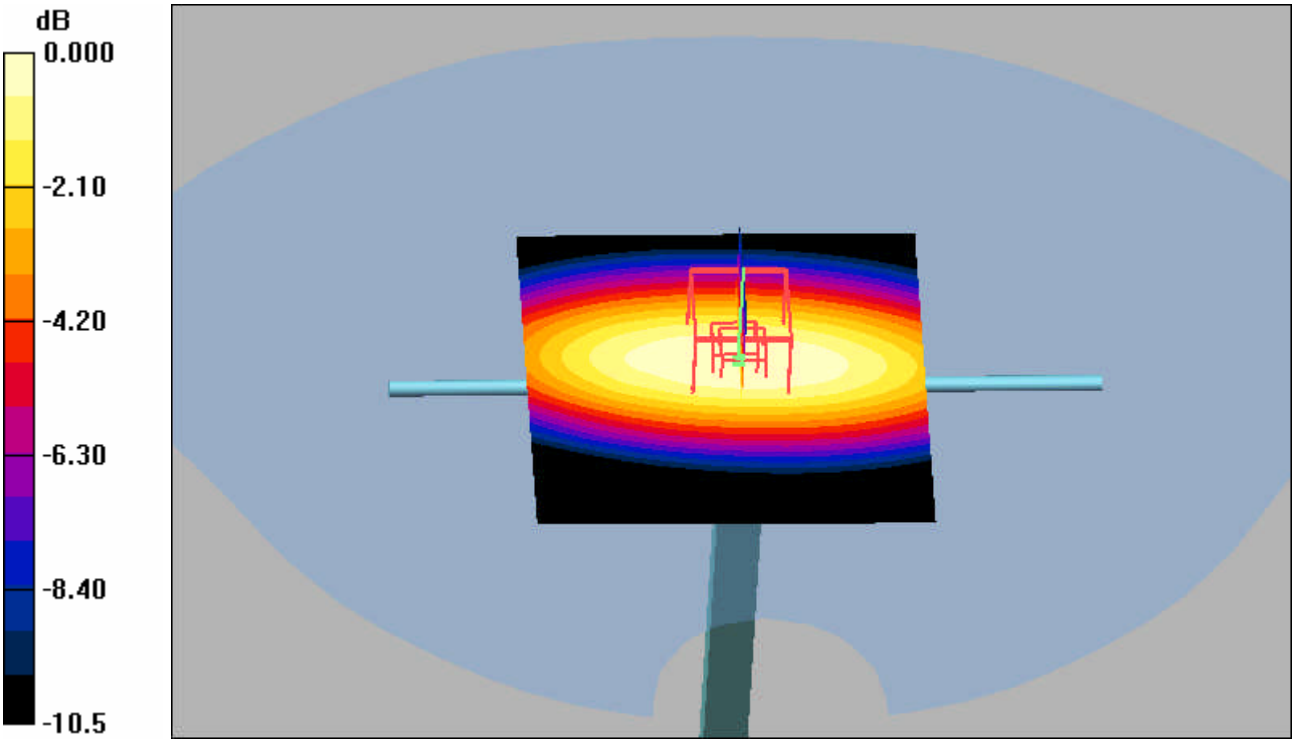
0 dB = 0.934mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

835 MHz SAR Distribution of Validation Dipole Antenna System Performance Check (Using body tissue). Validation_835Body_429_1031_18June06_T01

File Name: Validation_835Body_429_1031_18June06_T01.da4

Phantom: SAM with CRP (Low Band Body)Phantom section: Flat Section
Probe: ET3DV6 - SN1539ConvF(5.88, 5.88, 5.88)Duty Cycle: 1:1Frequency: 835 MHz
Medium parameters used: f = 835 MHz; s = 1 mho/m; e_r = 52.7; ? = 1000 kg/m^3
Measurement Standard: DASY4 (High Precision Assessment)
Dipole at 10 mm/Area Scan (61x61x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.05 mW/g
Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.6 V/m; Power Drift = 0.059 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.976 mW/g; SAR(10 g) = 0.638 mW/g
Maximum value of SAR (measured) = 1.06 mW/g
Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.6 V/m; Power Drift = 0.059 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.947 mW/g; SAR(10 g) = 0.617 mW/g
Maximum value of SAR (measured) = 1.02 mW/g
Procedure Notes: Pin: before 100.3 mW / after 100.2 mW
Humidity - 50.4% Ambient Temp - 24.6 C Simulant Temp - 24.5 C



0 dB = 1.02mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

835 MHz SAR Distribution of Validation Dipole Antenna

System Performance Check (Using body tissue).

Validation_835Body_429_1031_19June06_T01

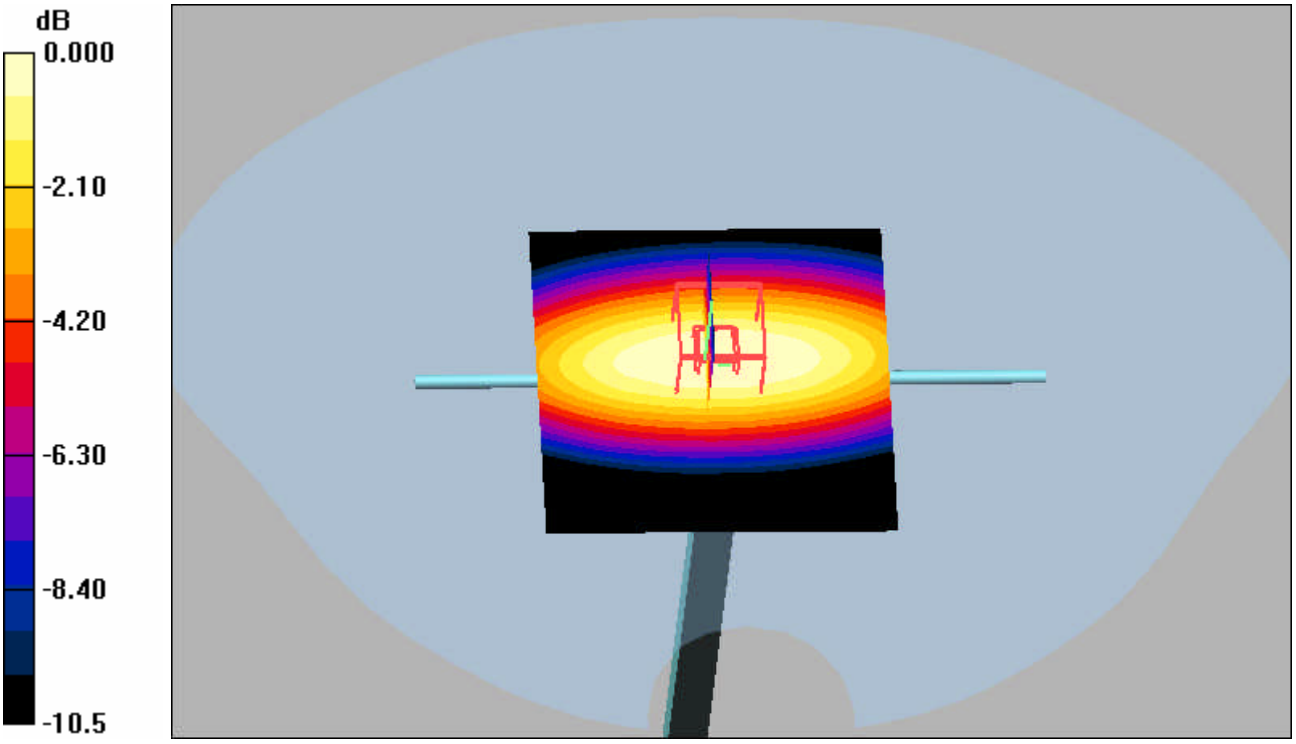
File Name: Validation_835Body_429_1031_19June06_T01.da4

Phantom: SAM with CRP (Low Band Body)Phantom section: Flat Section
Probe: ET3DV6 - SN1539ConvF(5.88, 5.88, 5.88)Duty Cycle: 1:1Frequency: 835 MHz
Medium parameters used: f = 835 MHz; s = 1.01 mho/m; e_r = 54.2; ? = 1000 kg/m^3
Measurement Standard: DASY4 (High Precision Assessment)

Dipole at 10 mm/Area Scan (61x61x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.04 mW/g

Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.3 V/m; Power Drift = -0.019 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.964 mW/g; SAR(10 g) = 0.629 mW/g
Maximum value of SAR (measured) = 1.04 mW/g

Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.3 V/m; Power Drift = -0.019 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.929 mW/g; SAR(10 g) = 0.606 mW/g
Maximum value of SAR (measured) = 0.999 mW/g
Procedure Notes: Pin: before 100.4 mW / after 99.6 mW
Humidity - 39.1% Ambient Temp - 24 C Simulant Temp - 23.9 C



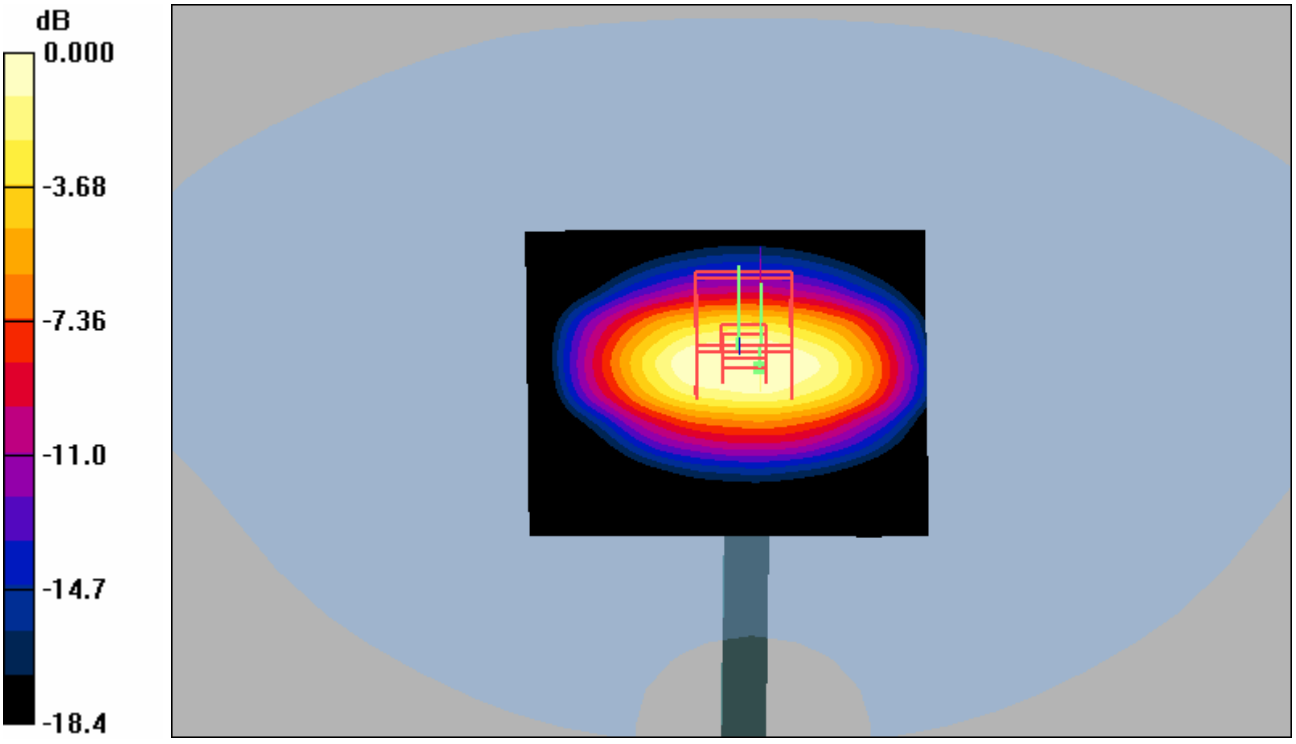
0 dB = 0.999mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

1900 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check (Using head tissue).
Validation_1900Head_537_1054_20June06_T01

File Name: Validation_1900Head_537_1054_20June06_T01.da4

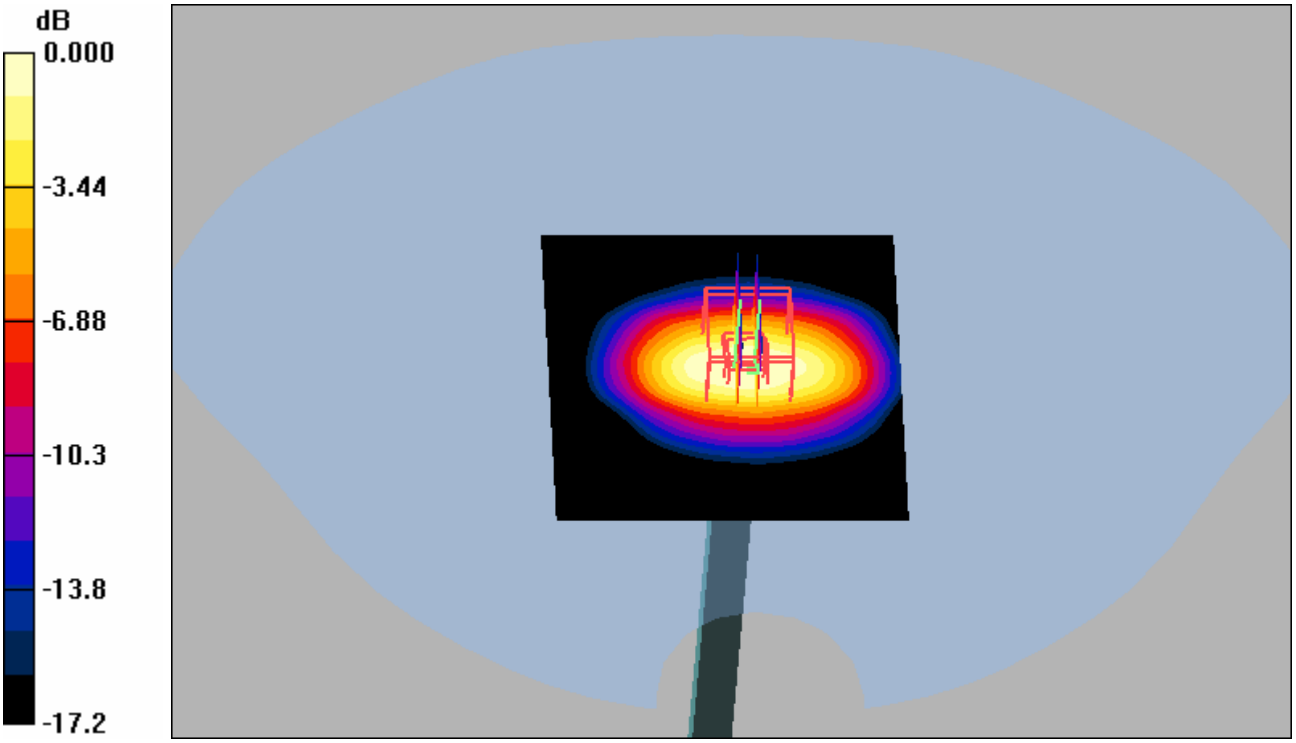
Phantom: SAM with CRP (High Band Head)Phantom section: Flat Section
Probe: ET3DV6 - SN1583ConvF(4.93, 4.93, 4.93)Duty Cycle: 1:1Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; s = 1.45 mho/m; e_r = 38; ? = 1000 kg/m^3
Measurement Standard: DASY4 (High Precision Assessment)
Dipole at 10 mm/Area Scan (61x61x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 5.21 mW/g
Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 60.6 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 7.22 W/kg
SAR(1 g) = 4.15 mW/g; SAR(10 g) = 2.18 mW/g
Maximum value of SAR (measured) = 4.67 mW/g
Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 60.6 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 6.97 W/kg
SAR(1 g) = 4.03 mW/g; SAR(10 g) = 2.13 mW/g
Maximum value of SAR (measured) = 4.46 mW/g
Procedure Notes: Pin: before 100.3 mW / after 98.9 mW
Humidity: 45.8% Ambient Temp: 20.9 C Simulant Temp: 21.1 C



0 dB = 4.46mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

1900 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check (Using body tissue).
Validation_1900Body_537_1020_21June06_T01
File Name: Validation_1900Body_537_1020_21June06_T01.da4
Phantom: SAM with CRP (High Band Body)Phantom section: Flat Section
Probe: ET3DV6 - SN1539ConvF(4.12, 4.12, 4.12)Duty Cycle: 1:1Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; s = 1.53 mho/m; e_r = 51.2; ? = 1000 kg/m^3
Measurement Standard: DASY4 (High Precision Assessment)
Dipole at 10 mm/Area Scan (61x61x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 5.50 mW/g
Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 60.3 V/m; Power Drift = -0.026 dB
Peak SAR (extrapolated) = 7.36 W/kg
SAR(1 g) = 4.33 mW/g; SAR(10 g) = 2.3 mW/g
Maximum value of SAR (measured) = 4.88 mW/g
Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 60.3 V/m; Power Drift = -0.026 dB
Peak SAR (extrapolated) = 7.42 W/kg
SAR(1 g) = 4.33 mW/g; SAR(10 g) = 2.3 mW/g
Maximum value of SAR (measured) = 4.82 mW/g
Procedure Notes: Pin: before 101.1 mW / after 101.3 mW
Humidity: 44.1% Ambient Temp: 22.4 C Simulant Temp: 22.3 C



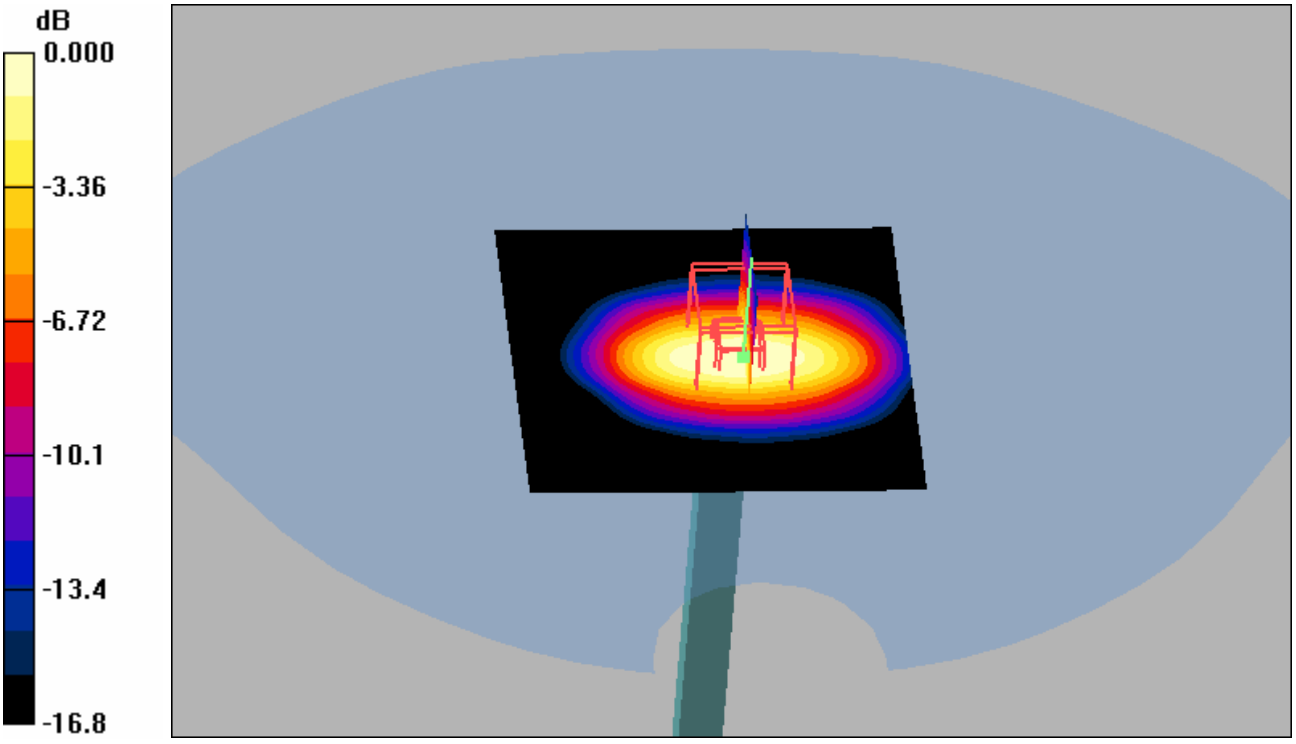
0 dB = 4.82mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

1900 MHz SAR Distribution of Validation Dipole Antenna
System Performance Check (Using body tissue).
Validation_1900Body_537_1020_06July06_T01

File Name: Validation_1900Body_537_1020_06July06_T01.da4

Phantom: SAM with CRP (High Band Body)Phantom section: Flat Section
Probe: ET3DV6 - SN1539ConvF(4.12, 4.12, 4.12)Duty Cycle: 1:1Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; s = 1.52 mho/m; e_r = 50.9; ? = 1000 kg/m^3
Measurement Standard: DASY4 (High Precision Assessment)
Dipole at 10 mm/Area Scan (61x61x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 5.27 mW/g
Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.6 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 7.10 W/kg
SAR(1 g) = 4.15 mW/g; SAR(10 g) = 2.2 mW/g
Maximum value of SAR (measured) = 4.72 mW/g
Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.6 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 7.13 W/kg
SAR(1 g) = 4.14 mW/g; SAR(10 g) = 2.19 mW/g
Maximum value of SAR (measured) = 4.66 mW/g
Procedure Notes: Pin: before 99.8mW / after 98.9 mW
Humidity: 41.2% Ambient Temp: 23 C Simulant Temp: 22.7 C



0 dB = 4.66mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Appendix 2

SAR distribution plots for Phantom Head Adjacent Use

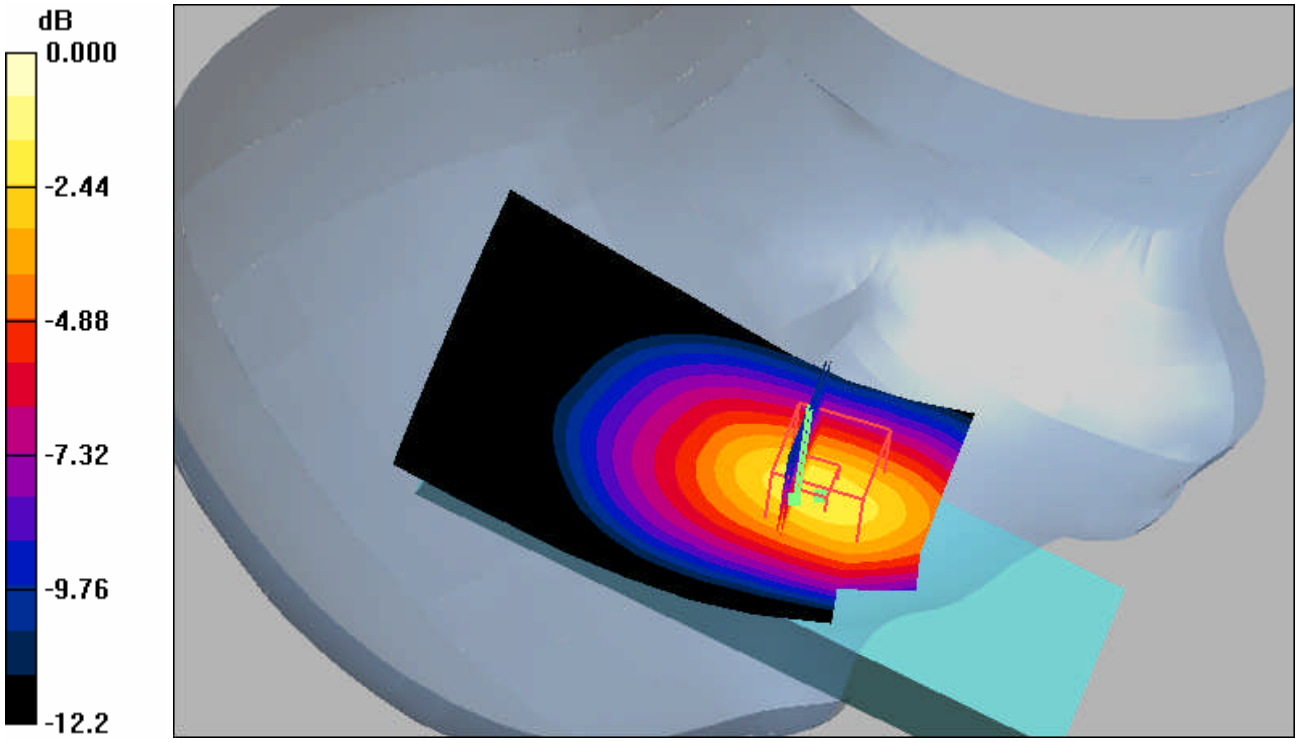
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: W710i with Standard Battery: BST-37, Right Side, Cheek/Touch Position.

Date/Time: 6/17/2006 7:39:50 AM
File Name: 17June06_W710i_GSM850_HLNZ_RC01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 39.5% Ambient Temp - 24.1 C Simulant Temp - 24 C
Communication System: GSM 850; Frequency: 824 MHz;Duty Cycle: 1:8.3
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 824 MHz; s = 0.868 mho/m; e_r = 39.8; ? = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1583; ConvF(6.82, 6.82, 6.82); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.36 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.94 V/m; Power Drift = 0.034 dB
Peak SAR (extrapolated) = 2.01 W/kg
SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.804 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.36 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.94 V/m; Power Drift = 0.034 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 2.01 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 2.01mW/g

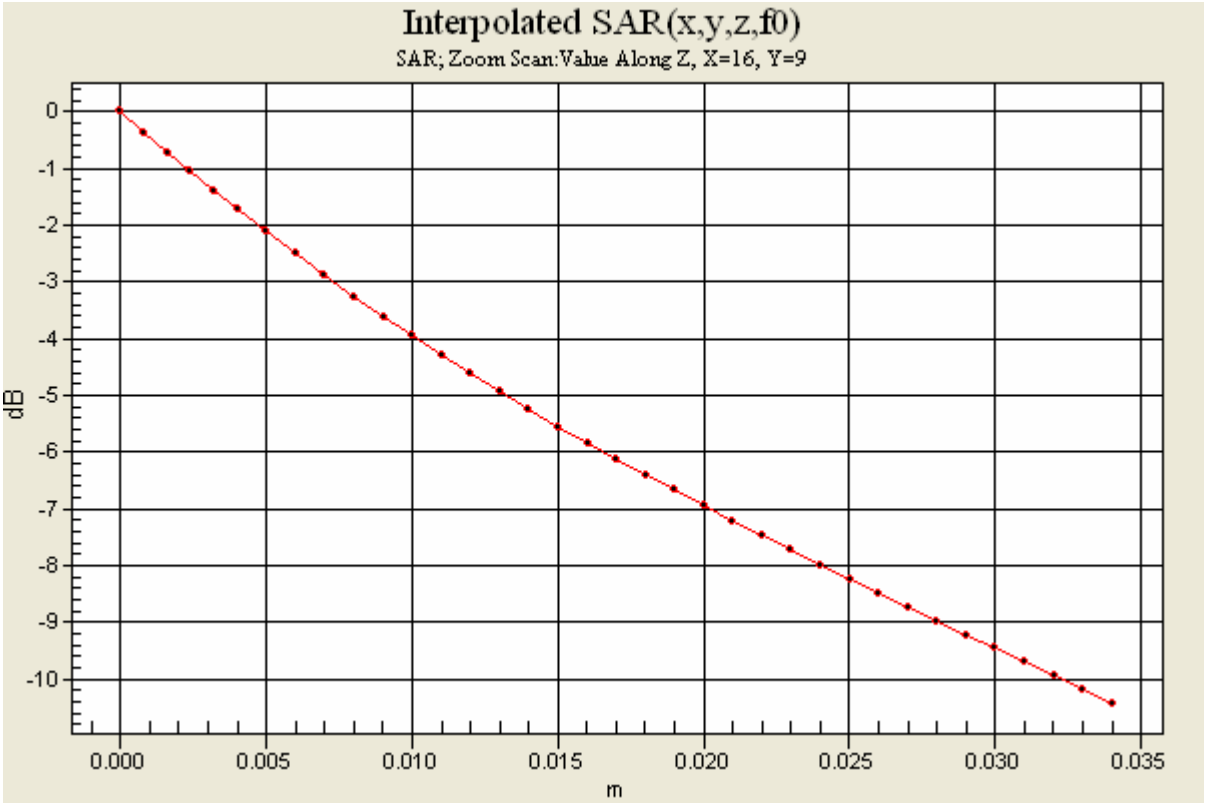


Exhibit 11

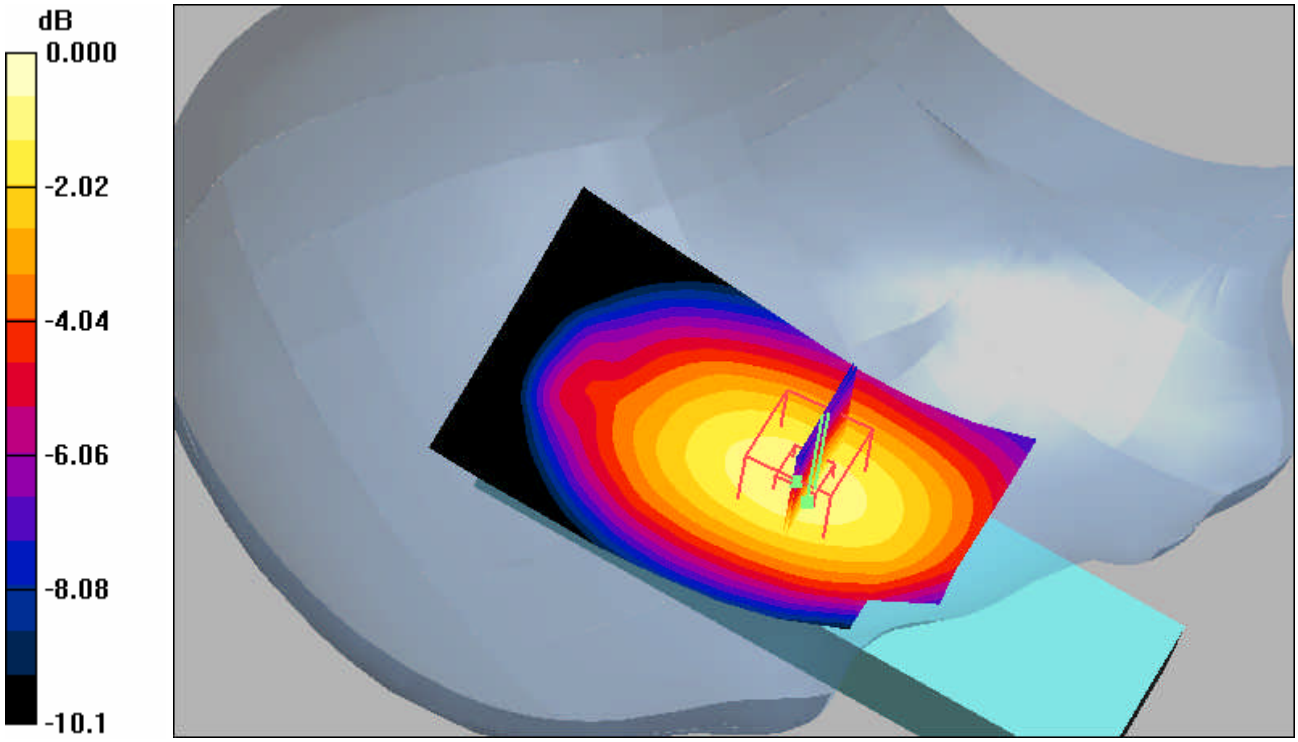
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W710i with Standard Battery: BST-37, Right Side, Tilt Position.

Date/Time: 6/17/2006 9:22:57 AM
File Name: 17June06_W710i_GSM850_HLNZ_RT01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 39.8% Ambient Temp - 24.2 C Simulant Temp - 24 C
Communication System: GSM 850; Frequency: 824 MHz;Duty Cycle: 1:8.3
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 824 MHz; s = 0.868 mho/m; e_r = 39.8; ? = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1583; ConvF(6.82, 6.82, 6.82); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.365 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.3 V/m; Power Drift = -0.080 dB
Peak SAR (extrapolated) = 0.440 W/kg
SAR(1 g) = 0.340 mW/g; SAR(10 g) = 0.252 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.359 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.3 V/m; Power Drift = -0.080 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.440 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.440mW/g

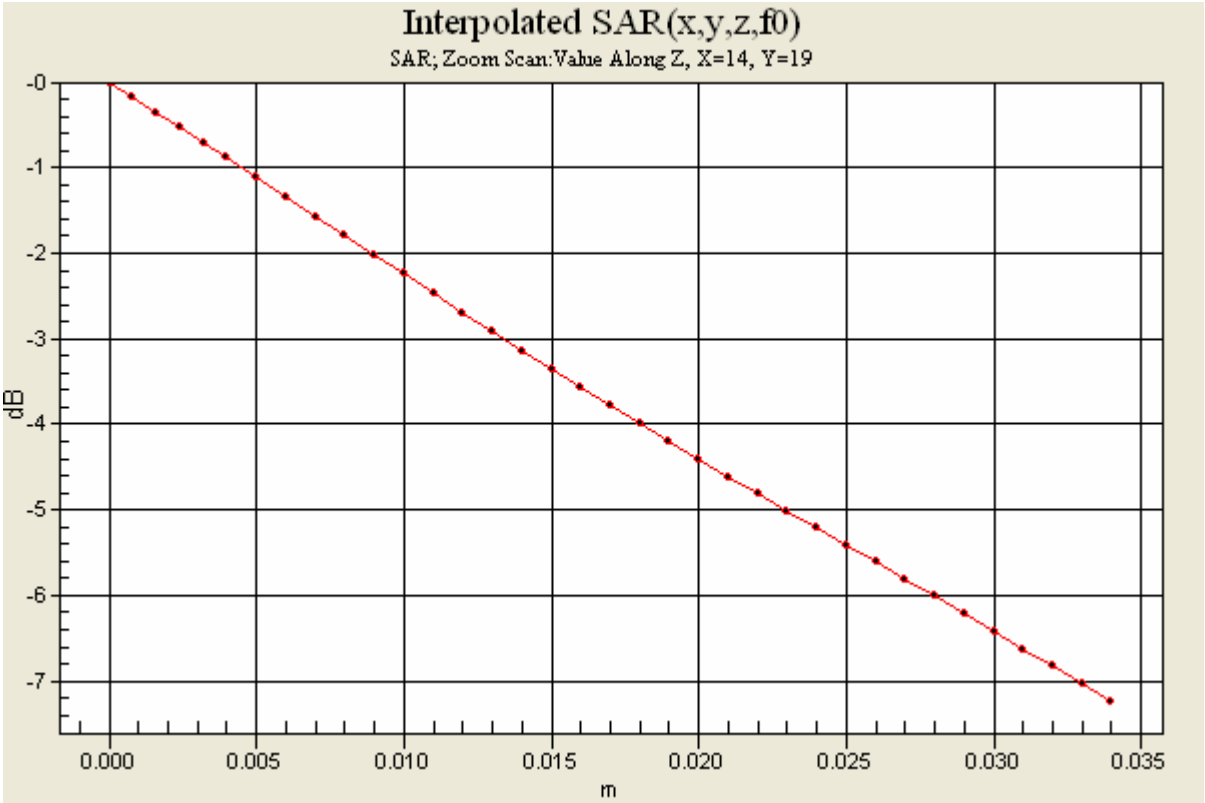


Exhibit 11

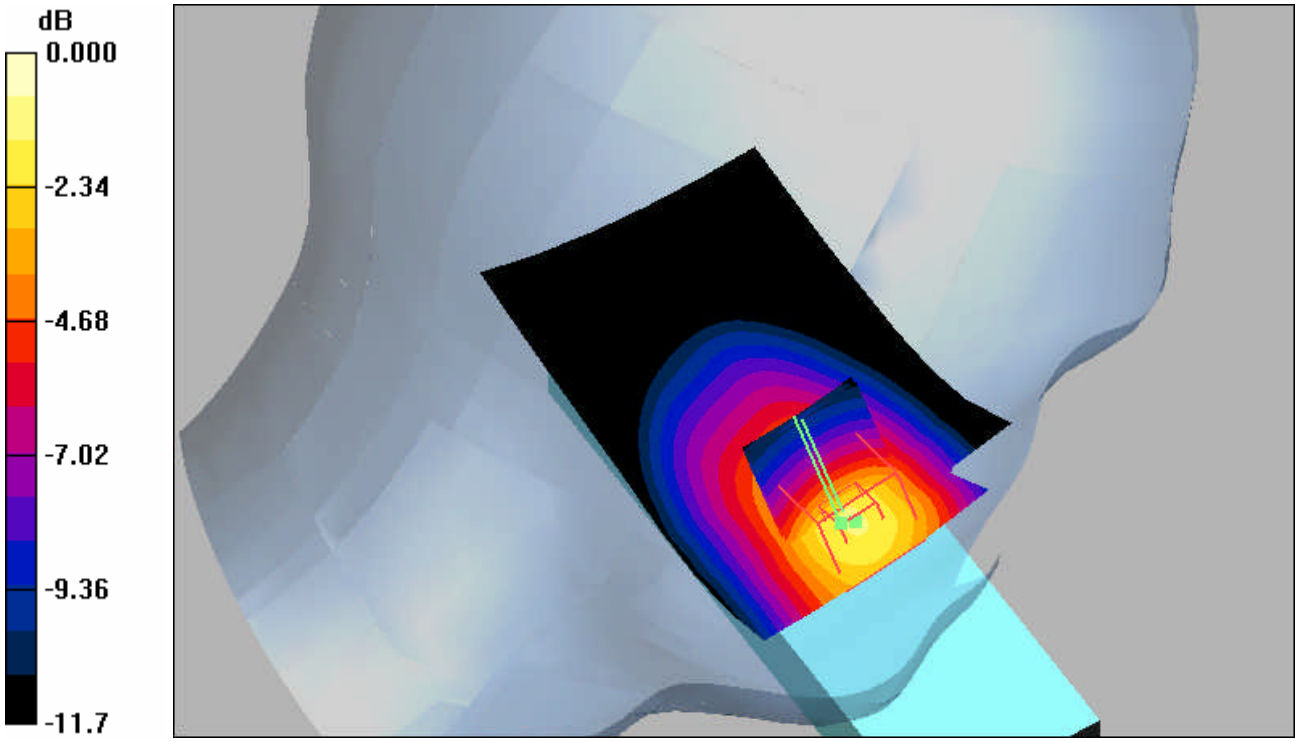
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W710i with Standard Battery: BST-37, Left Side, Cheek/Touch Position.

Date/Time: 6/17/2006 9:47:43 AM
File Name: 17June06_W710i_GSM850_HLNZ_LC01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 40.1 % Ambient Temp - 24.2 C Simulant Temp - 24.1 C
Communication System: GSM 850; Frequency: 824 MHz;Duty Cycle: 1:8.3
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 824 MHz; s = 0.868 mho/m; e_r = 39.8; ? = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1583; ConvF(6.82, 6.82, 6.82); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.25 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.33 V/m; Power Drift = -0.204 dB
Peak SAR (extrapolated) = 1.74 W/kg
SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.754 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.22 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.33 V/m; Power Drift = -0.204 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.74 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 1.74mW/g

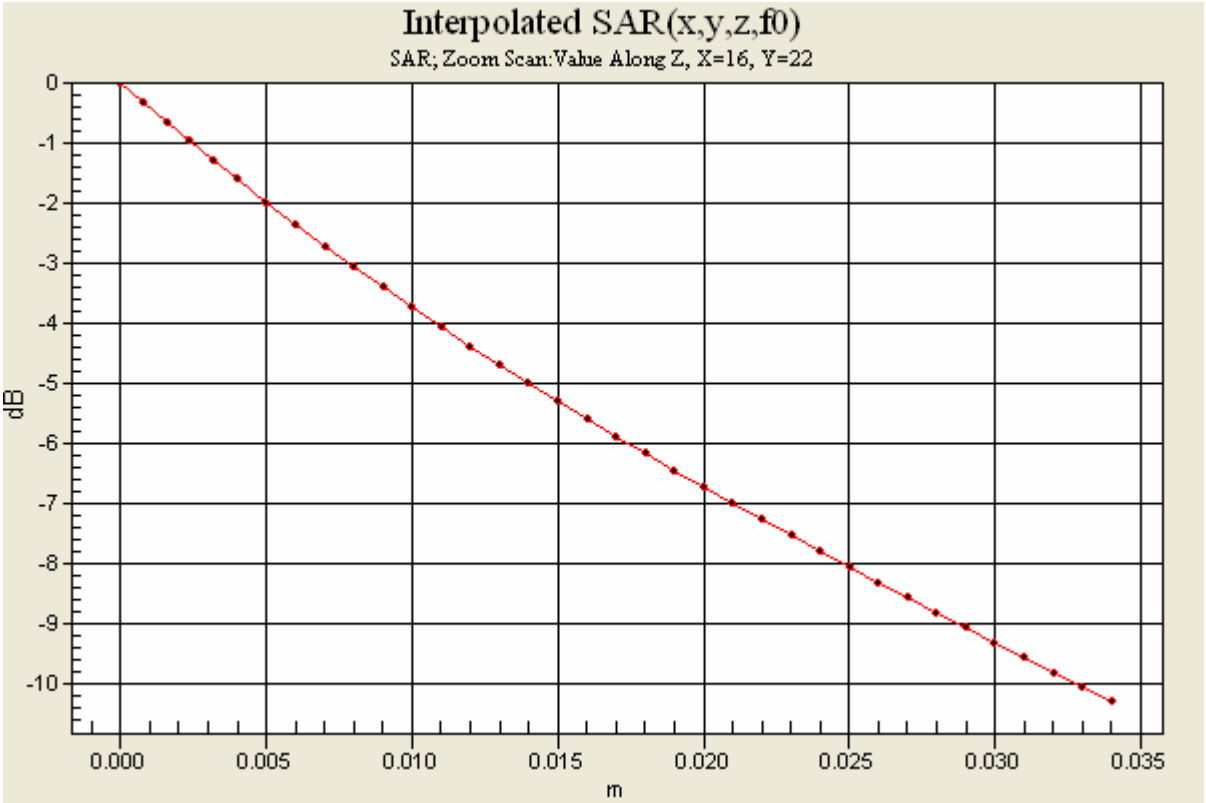


Exhibit 11

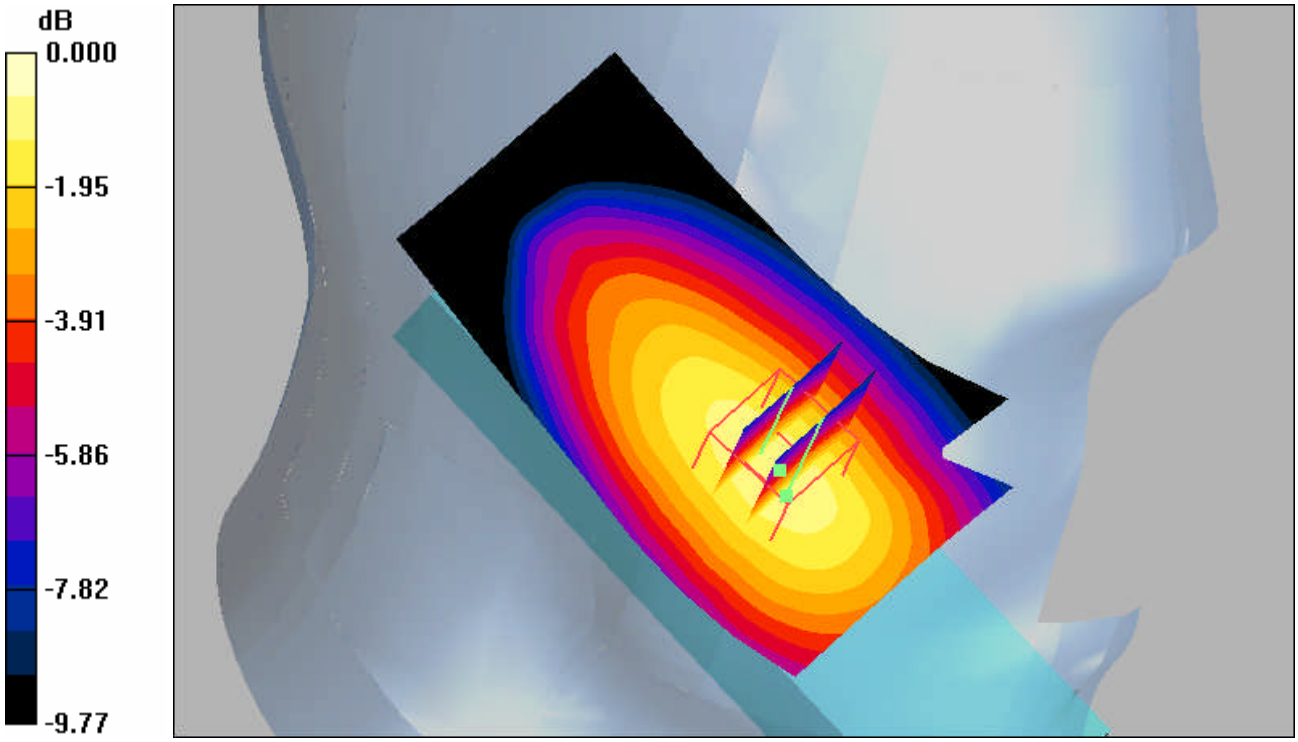
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W710i with Standard Battery: BST-37, Left Side, Tilt Position.

Date/Time: 6/17/2006 11:37:34 AM
File Name: 17June06_W710i_GSM850_HLNZ_LT01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 40.1 % Ambient Temp - 24.2 C Simulant Temp - 24.1 C
Communication System: GSM 850; Frequency: 824 MHz;Duty Cycle: 1:8.3
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 824 MHz; s = 0.868 mho/m; e_r = 39.8; ? = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1583; ConvF(6.82, 6.82, 6.82); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.354 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.9 V/m; Power Drift = -0.017 dB
Peak SAR (extrapolated) = 0.428 W/kg
SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.242 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.348 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.9 V/m; Power Drift = -0.017 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.428 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.428mW/g

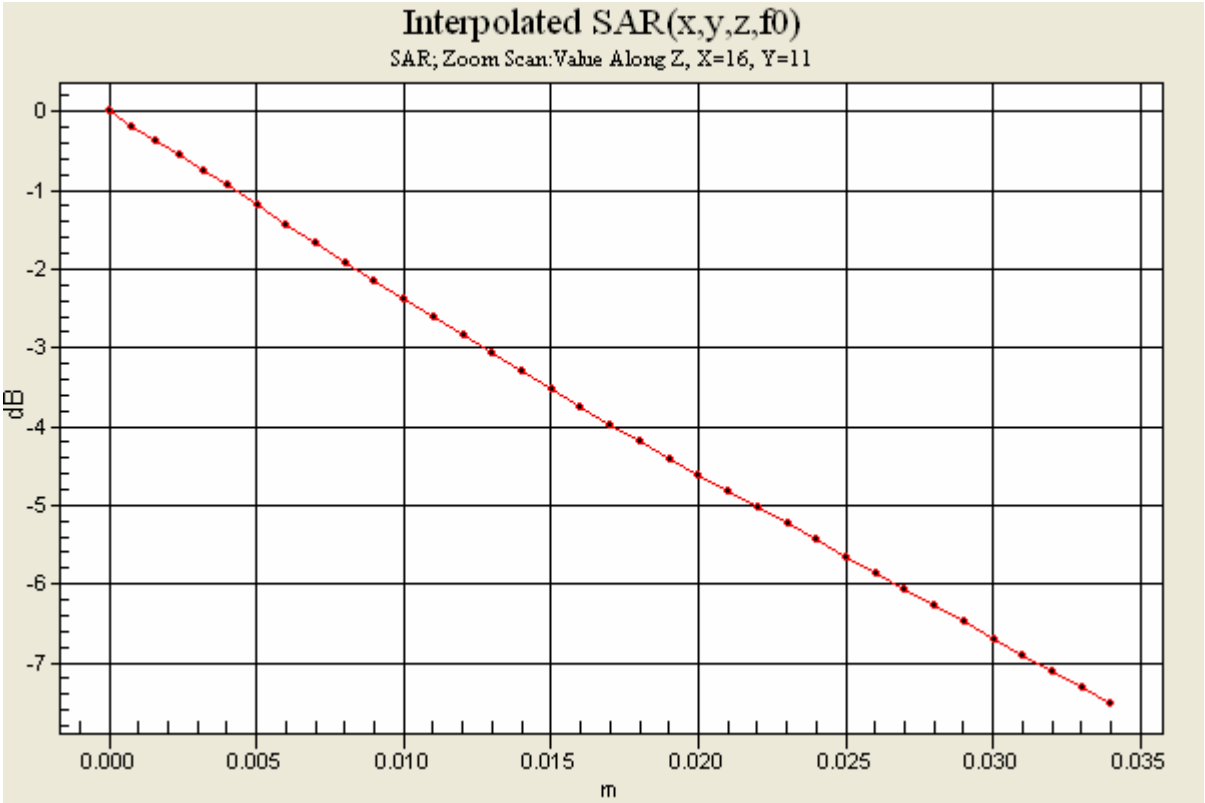


Exhibit 11

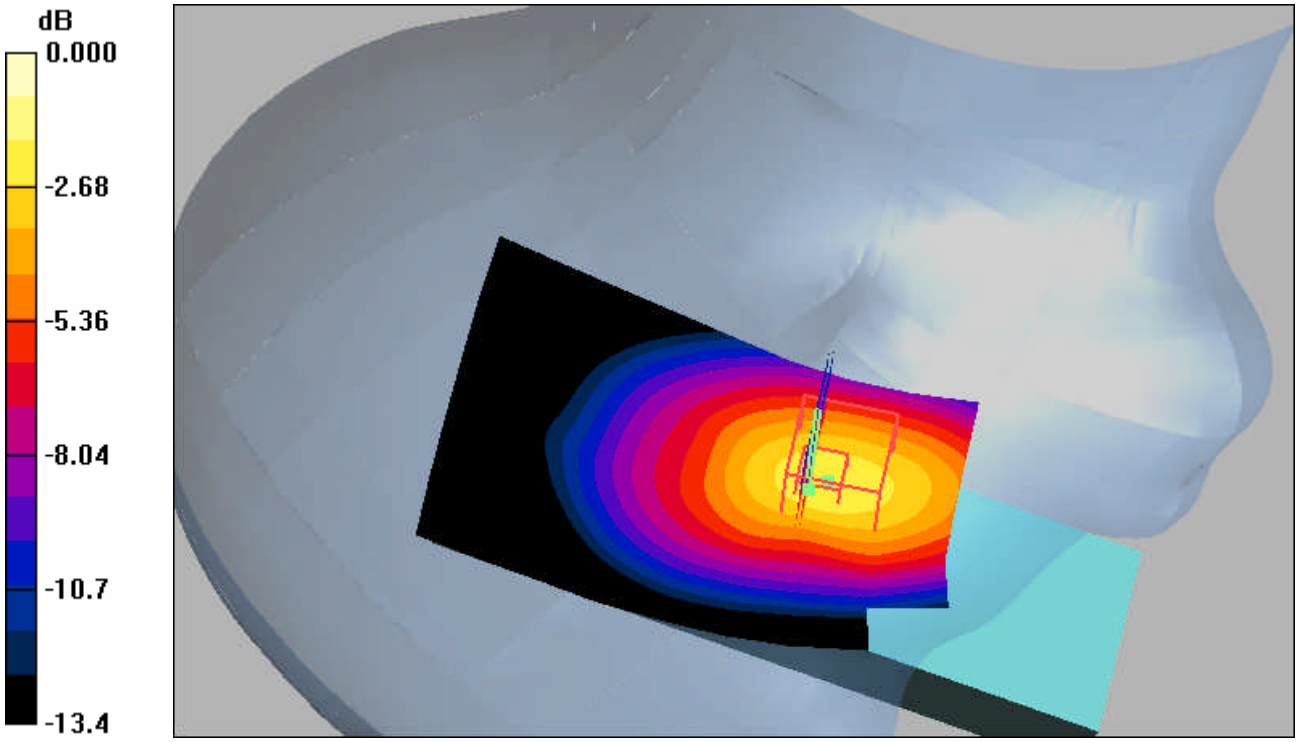
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W710i with Standard Battery: BST-37, Right Side, Cheek/Touch Position with Blue Tooth.

Date/Time: 6/17/2006 12:10:57 PM
File Name: 17June06_W710i_GSM850_HLNZ_BT_RC01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 40.1% Ambient Temp - 24.2 C Simulant Temp - 24.1 C
Communication System: GSM 850; Frequency: 824 MHz;Duty Cycle: 1:8.3
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 824 MHz; s = 0.868 mho/m; e_r = 39.8; ? = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1583; ConvF(6.82, 6.82, 6.82); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (51x81x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.46 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.8 V/m; Power Drift = 0.028 dB
Peak SAR (extrapolated) = 2.23 W/kg
SAR(1 g) = 1.35 mW/g; SAR(10 g) = 0.852 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.47 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.8 V/m; Power Drift = 0.028 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 2.23 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 2.23mW/g

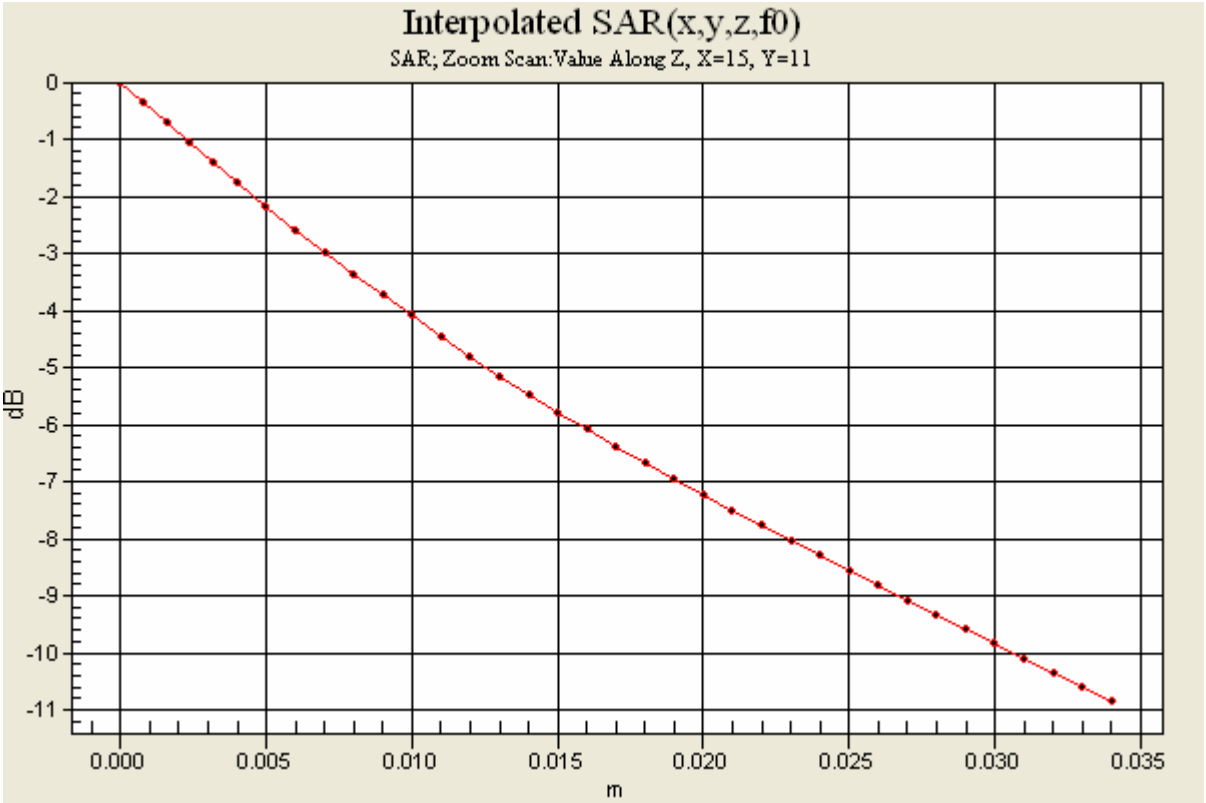


Exhibit 11

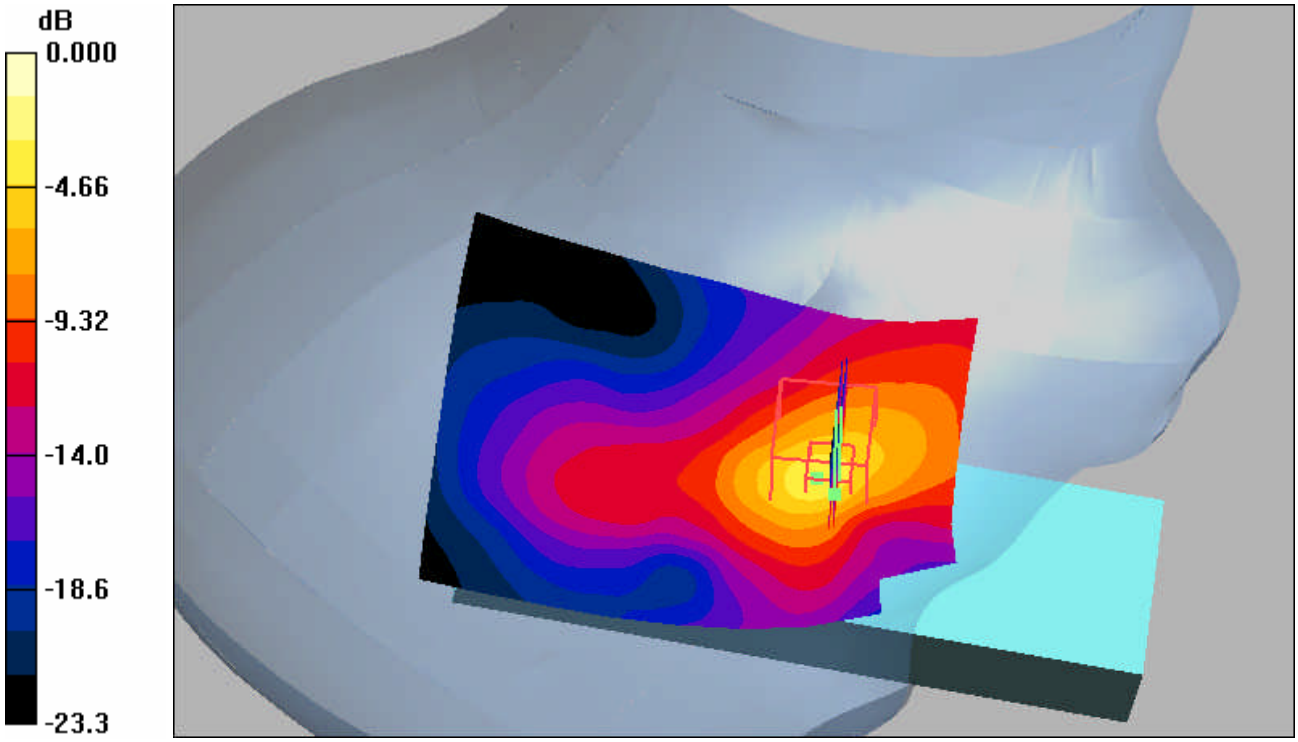
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W710i with Standard Battery: BST-37, Right Side, Cheek/Touch Position.

Date/Time: 6/20/2006 10:19:27 AM
File Name: 20June06_W710i_GSM1900_HLUJ_RC01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 45.8% Ambient Temp - 20.9 C Simulant Tem - 21.1 C
Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head 1800/1900 MHzMedium parameters used: f = 1880 MHz; s = 1.43 mho/m; e_r = 38.1; ? = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1583; ConvF(4.93, 4.93, 4.93); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure 2/Area Scan (61x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.847 mW/g
Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.53 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 1.93 W/kg
SAR(1 g) = 0.759 mW/g; SAR(10 g) = 0.356 mW/g
Maximum value of SAR (measured) = 0.877 mW/g
Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.53 V/m; Power Drift = -0.025 dB
Maximum value of SAR (interpolated) = 1.93 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 1.93mW/g

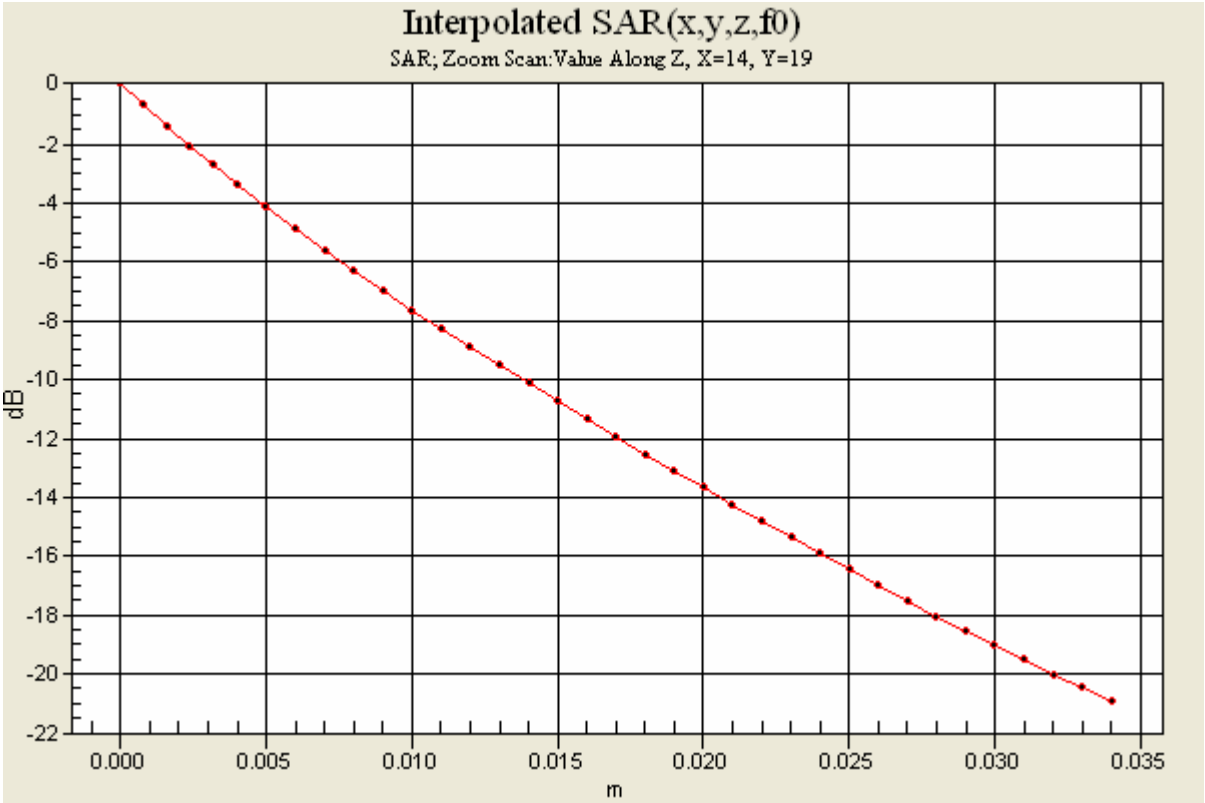


Exhibit 11

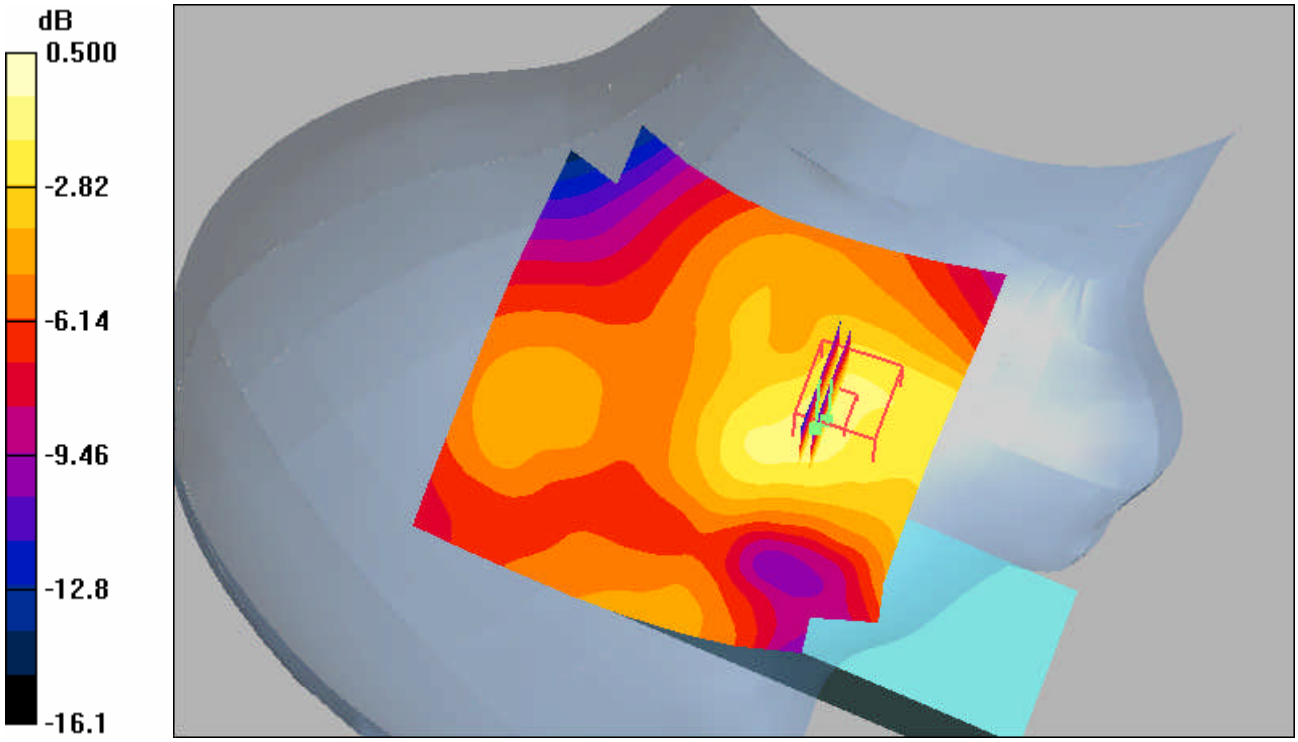
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W710i with Standard Battery: BST-37, Right Side, Tilt Position.

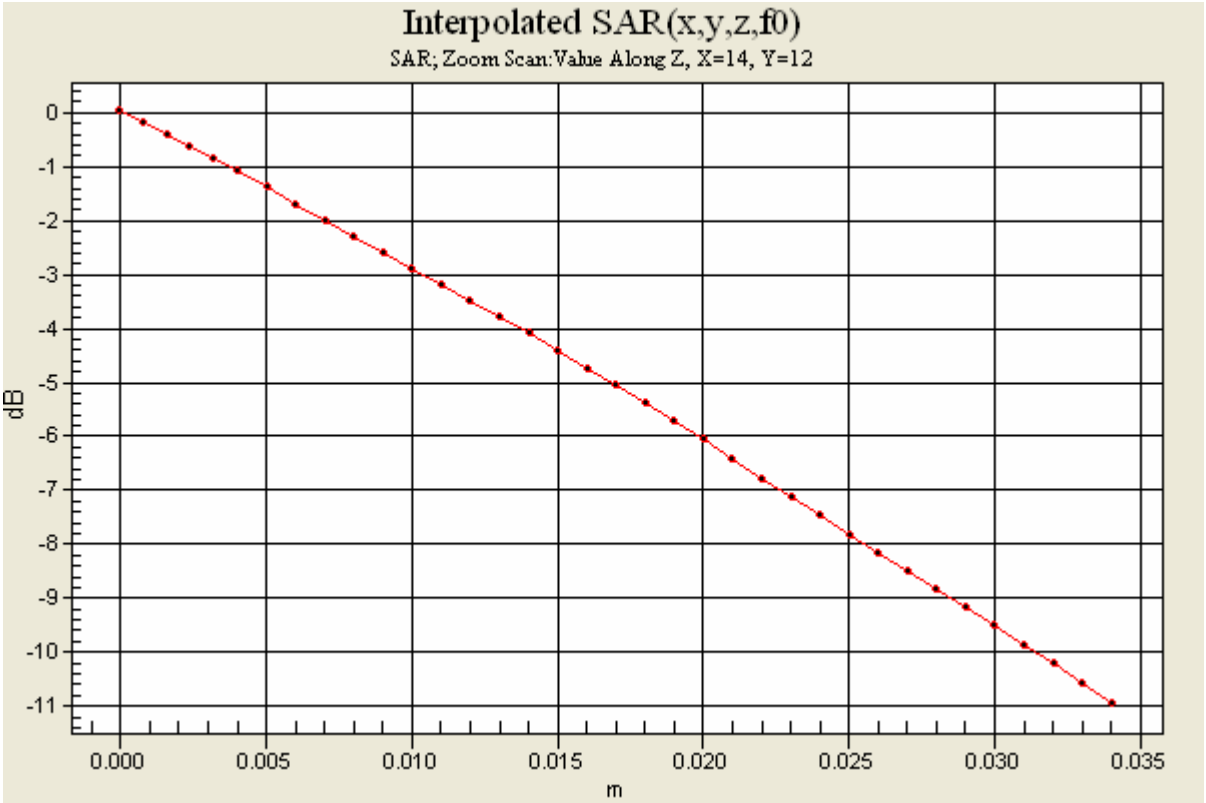
Date/Time: 6/20/2006 12:33:14 PM
File Name: 20June06_W710i_GSM1900_HLUJ_RT01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 44.4% Ambient Temp - 21.1 C Simulant Tem - 21 C
Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head 1800/1900 MHzMedium parameters used: f = 1880 MHz; s = 1.43 mho/m; e_r = 38.1; ? = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1583; ConvF(4.93, 4.93, 4.93); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure 2/Area Scan (81x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.067 mW/g
Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.12 V/m; Power Drift = -0.046 dB
Peak SAR (extrapolated) = 0.086 W/kg
SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.042 mW/g
Maximum value of SAR (measured) = 0.067 mW/g
Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.12 V/m; Power Drift = -0.046 dB
Maximum value of SAR (interpolated) = 0.086 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.086mW/g



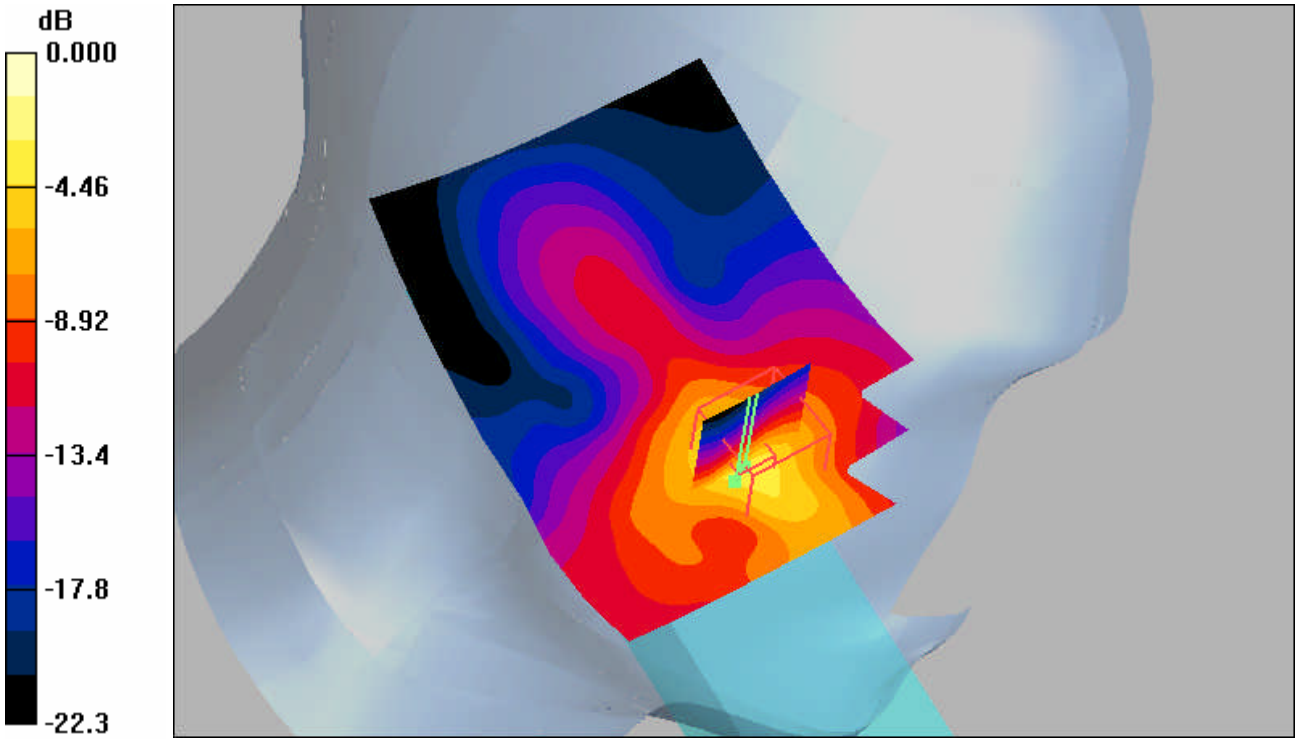
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W710i with Standard Battery: BST-37, Left Side, Cheek/Touch Position.

Date/Time: 6/20/2006 1:04:24 PM
File Name: 20June06_W710i_GSM1900_HLUJ_LC01.da4
DUT: W710i
Program Notes: Battery - BST-37 Humidity: 44.6% Ambient Temp: 21.2 C Simulant Temp: 21 C
Communication System: DCS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Head 1800/1900 MHzMedium parameters used (interpolated): f = 1850.2 MHz; s = 1.4 mho/m; e_r = 38.2; ? = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1583; ConvF(4.93, 4.93, 4.93); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (71x81x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.627 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.00 V/m; Power Drift = -0.067 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.270 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.651 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.00 V/m; Power Drift = -0.067 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.37 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 1.37mW/g

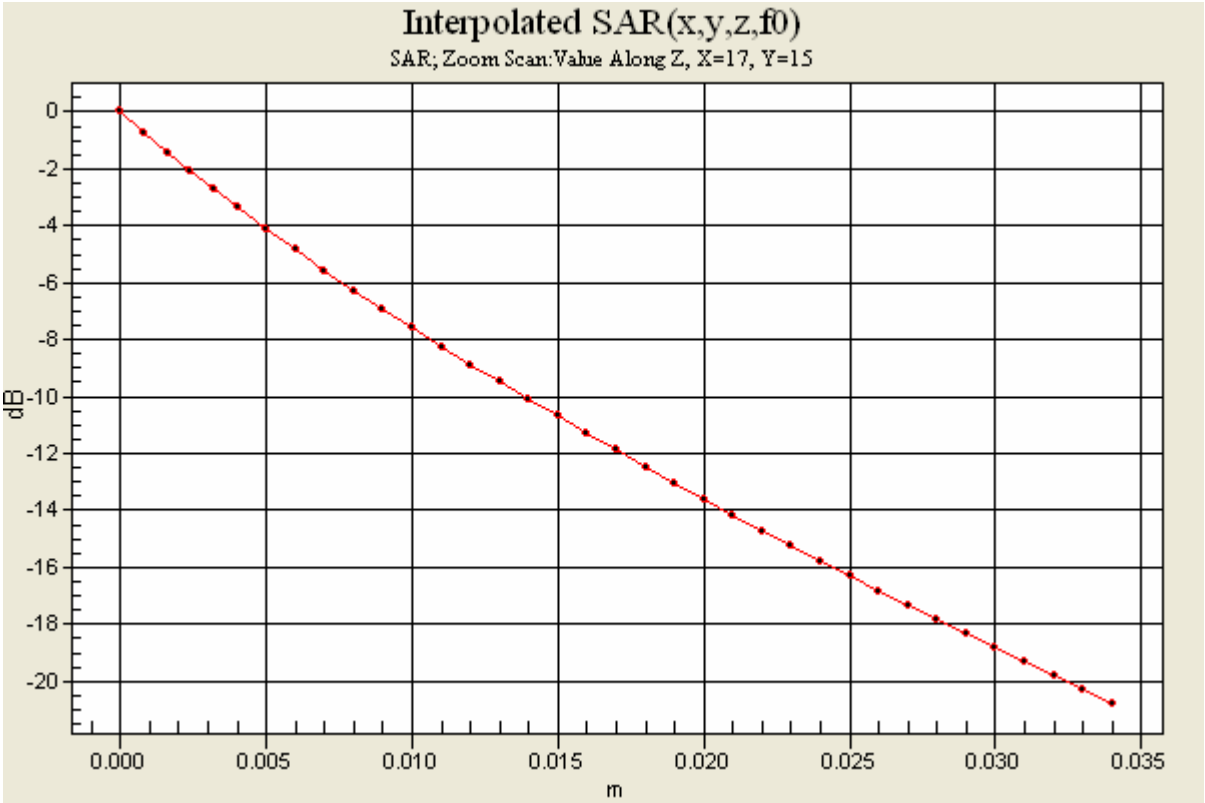


Exhibit 11

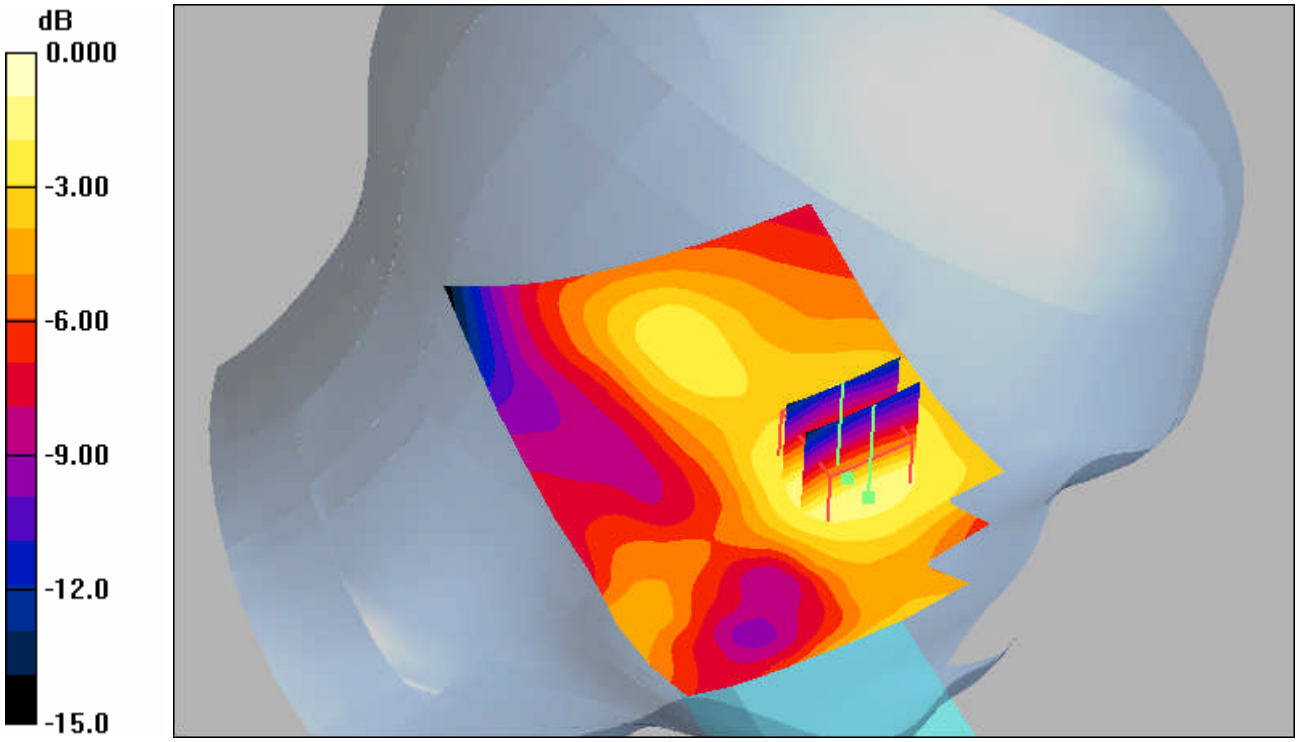
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W710i with Standard Battery: BST-37, Left Side, Tilt Position.

Date/Time: 6/20/2006 2:29:02 PM
File Name: 20June06_W710i_GSM1900_HLUJ_LT01.da4
DUT: W710i
Program Notes: Battery - BST-37 Humidity: 47.5% Ambient Temp: 21.6 C Simulant Temp: 21.2 C
Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head 1800/1900 MHzMedium parameters used: f = 1880 MHz; s = 1.43 mho/m; e_r = 38.1; ? = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1583; ConvF(4.93, 4.93, 4.93); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure 2/Area Scan (71x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.067 mW/g
Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.33 V/m; Power Drift = -0.053 dB
Peak SAR (extrapolated) = 0.086 W/kg
SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.041 mW/g
Maximum value of SAR (measured) = 0.066 mW/g
Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.33 V/m; Power Drift = -0.053 dB
Maximum value of SAR (interpolated) = 0.086 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.086mW/g

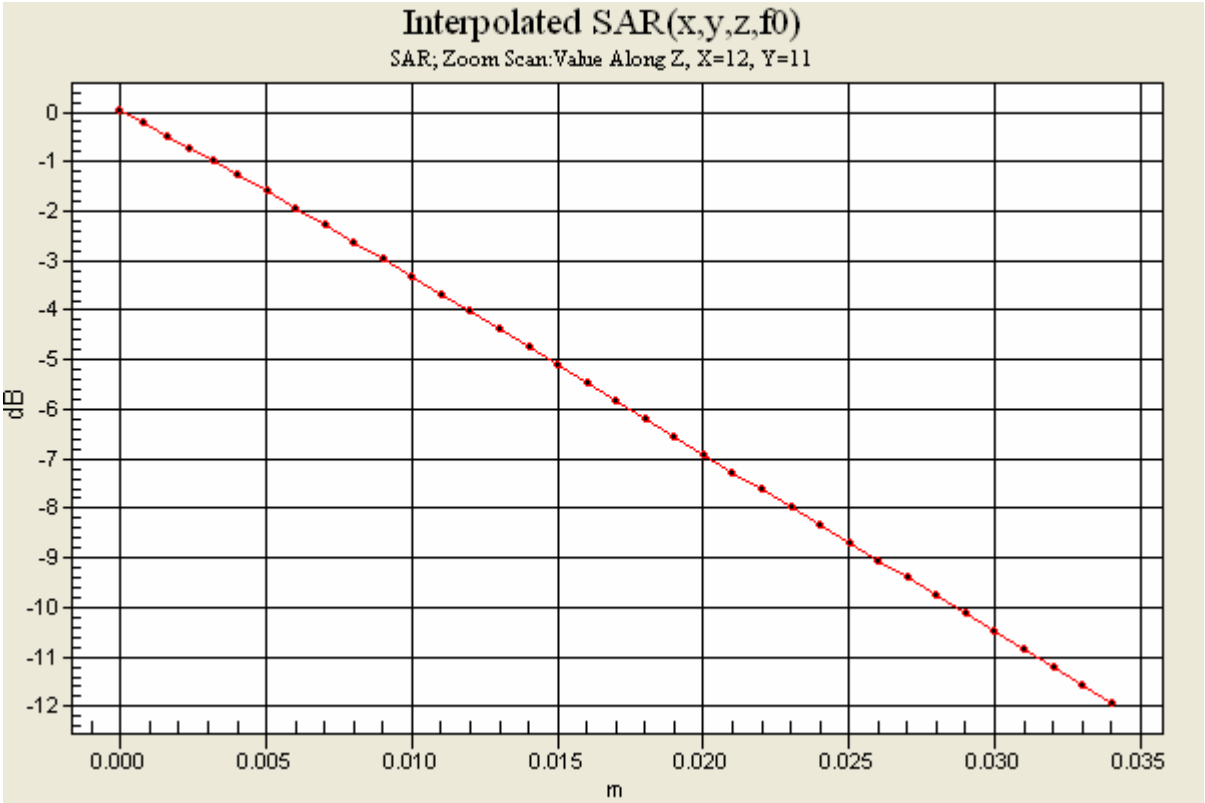


Exhibit 11

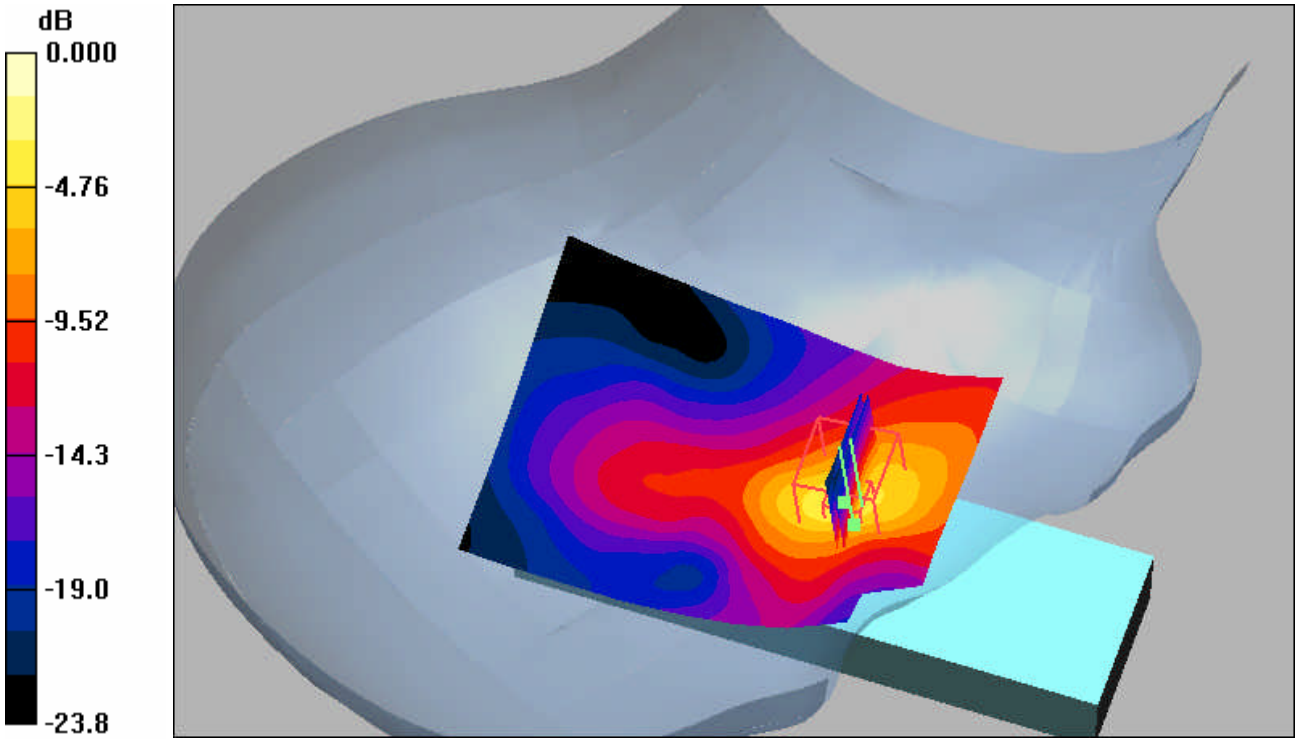
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: W710i with Standard Battery: BST-37, Right Side, Cheek/Touch Position with Blue Tooth.

Date/Time: 6/20/2006 3:14:52 PM
File Name: 20June06_W710i_GSM1900_HLUJ_BT_RC01.da4
DUT: W710i
Program Notes: Battery - BST-37 Humidity: 47.5% Ambient Temp: 21.6 C Simulant Temp: 21.2 C
Communication System: DCS 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Head 1800/1900 MHzMedium parameters used: f = 1880 MHz; s = 1.43 mho/m; e_r = 38.1; ? = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1583; ConvF(4.93, 4.93, 4.93); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure 2/Area Scan (61x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.854 mW/g
Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.54 V/m; Power Drift = 0.140 dB
Peak SAR (extrapolated) = 1.81 W/kg
SAR(1 g) = 0.755 mW/g; SAR(10 g) = 0.360 mW/g
Maximum value of SAR (measured) = 0.856 mW/g
Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.54 V/m; Power Drift = 0.140 dB
Maximum value of SAR (interpolated) = 1.81 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 1.81mW/g

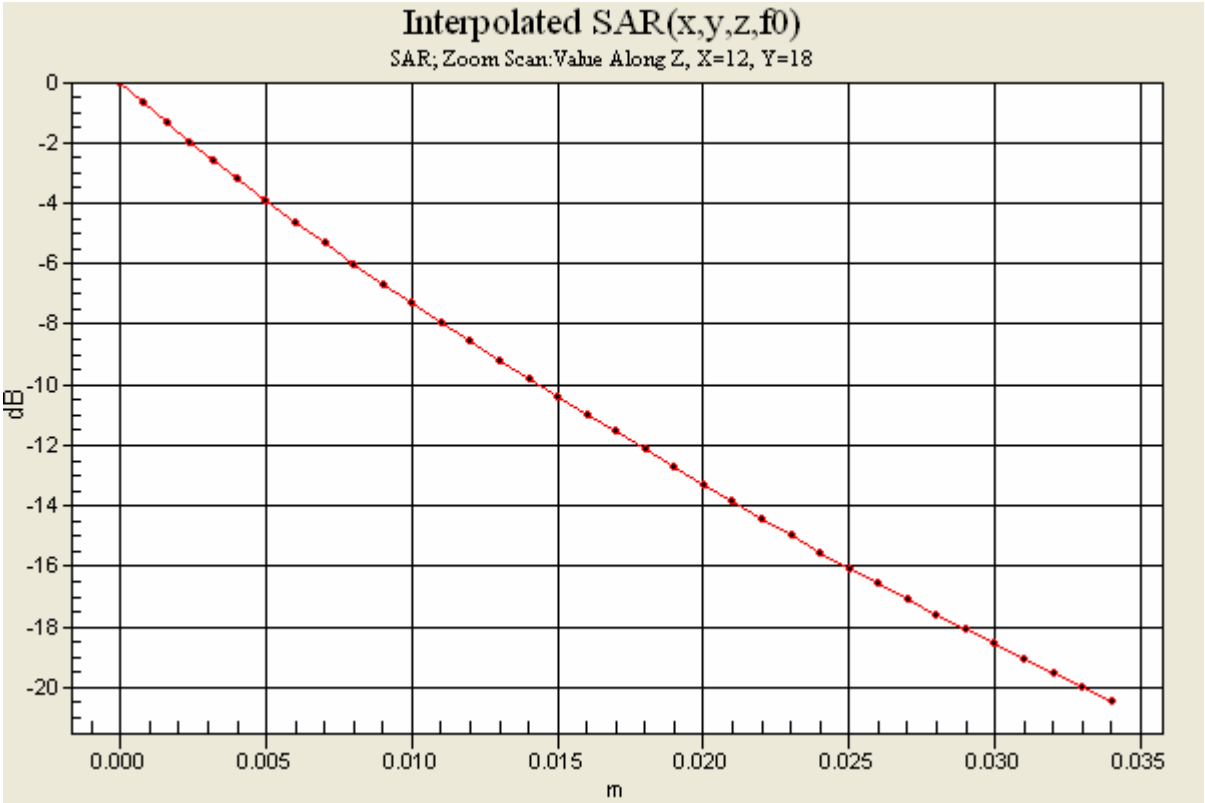


Exhibit 11

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Appendix 3

SAR distribution plots for Body Worn Configuration

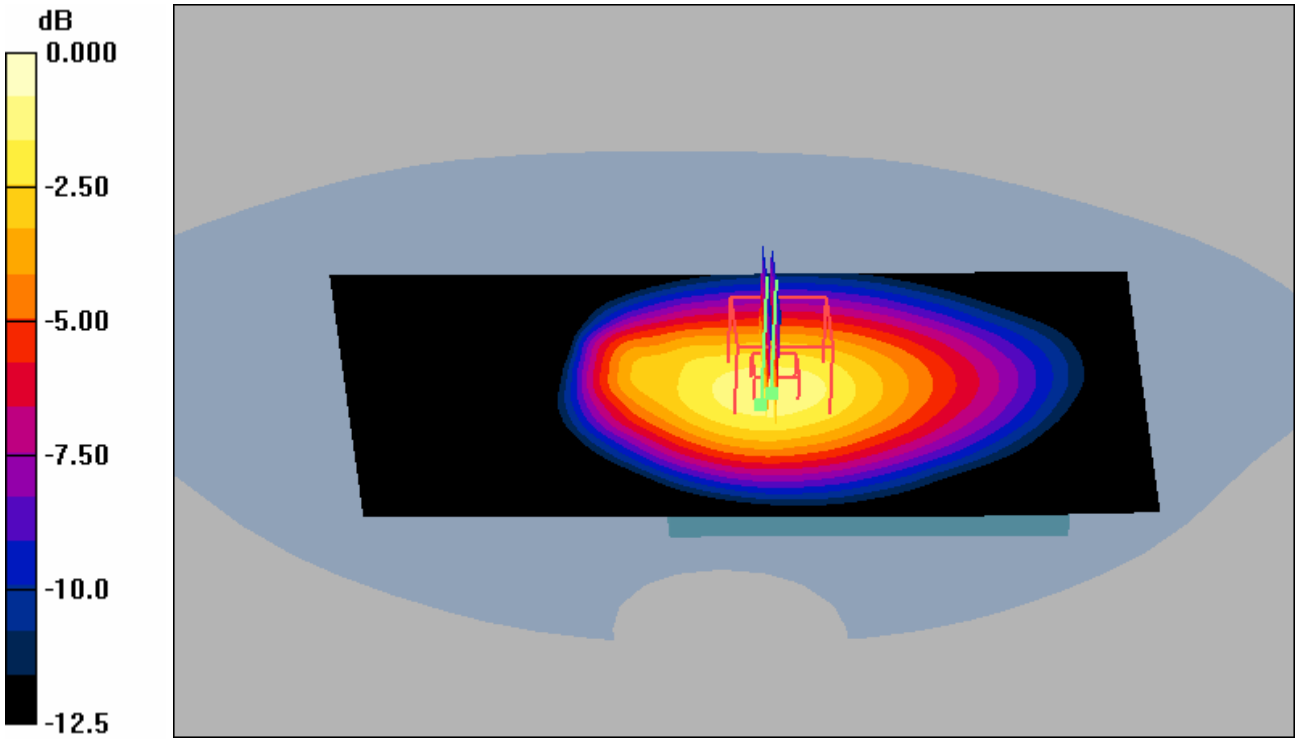
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 800 GSM band. Measured with back of device facing the body using a 15mm spacer. (Standard Battery, BST-37)

Date/Time: 6/18/2006 7:15:39 AM
File Name: 18June06_W710i_GSM835_HMLQ_15mm_BB01.da4
DUT: W710i body;
Program Notes: Battery - BST37 Humidity - 50.4% Ambient Temp - 24.6 C Simulant Temp - 24.5 C
Communication System: GSM 850 multi-slot Body; Frequency: 824 MHz;Duty Cycle: 1:4.15
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 824 MHz; s = 0.992 mho/m; e_r = 52.8; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(5.88, 5.88, 5.88); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (71x121x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.861 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.9 V/m; Power Drift = -0.032 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.805 mW/g; SAR(10 g) = 0.550 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.863 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.9 V/m; Power Drift = -0.032 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.10 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 1.10mW/g

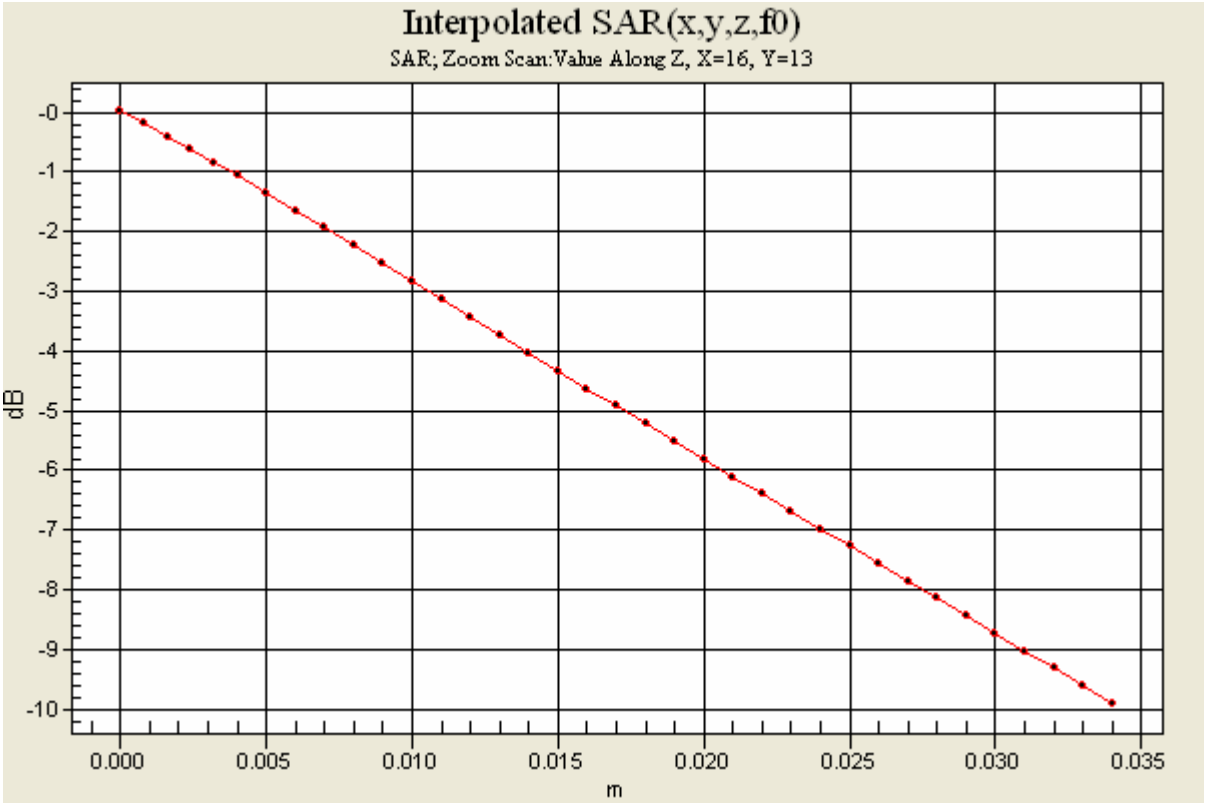


Exhibit 11

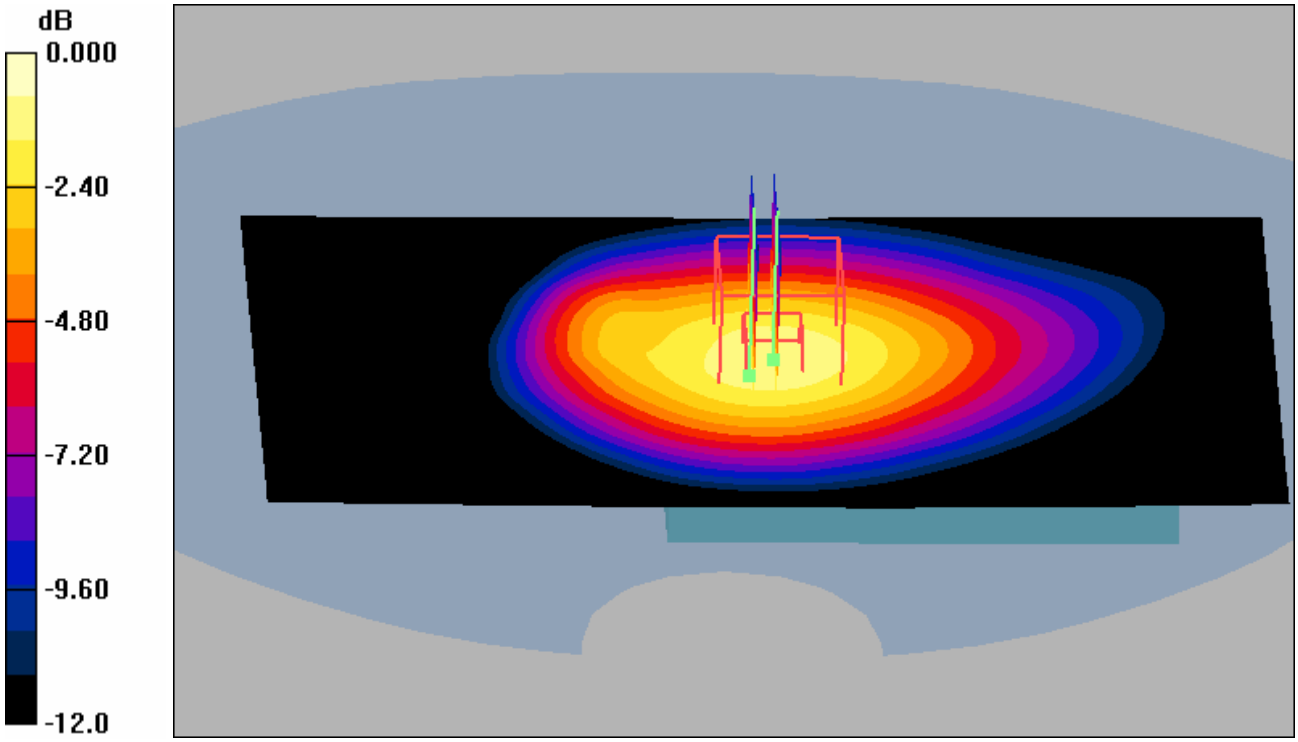
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 800 GSM band. Measured with back of device facing the body using an ICE26 carry case. (Standard Battery, BST-37)

Date/Time: 6/18/2006 8:03:29 AM
File Name: 18June06_W710i_GSM835_HMLQ_ICE26_BB01.da4
DUT: W710i body;
Program Notes: Battery - BST37 Humidity - 41.6% Ambient Temp - 22.1 C Simulant Temp - 22 C
Communication System: GSM 850 multi-slot Body; Frequency: 824 MHz;Duty Cycle: 1:4.15
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 824 MHz; s = 0.992 mho/m; e_r = 52.8; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(5.88, 5.88, 5.88); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (71x121x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.631 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.2 V/m; Power Drift = -0.035 dB
Peak SAR (extrapolated) = 0.777 W/kg
SAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.405 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.622 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.2 V/m; Power Drift = -0.035 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.777 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.777mW/g

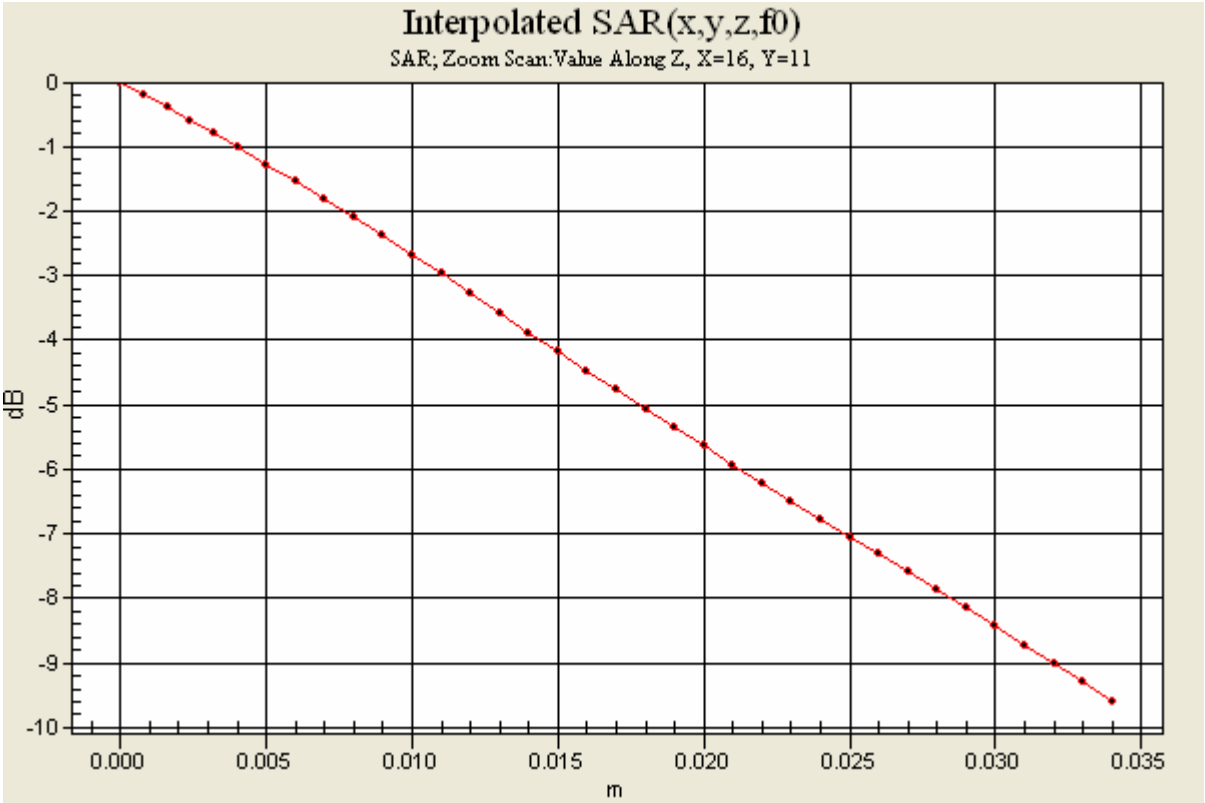


Exhibit 11

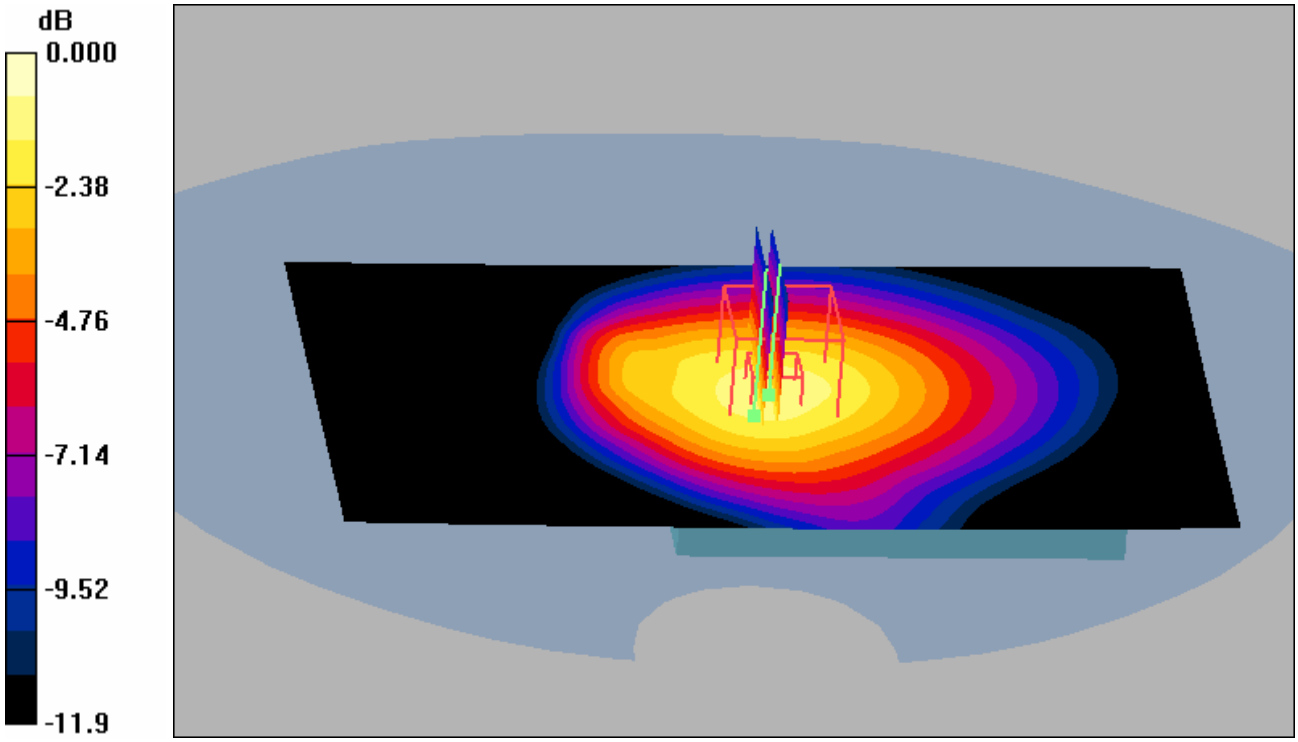
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 800 GSM band. Measured with back of device facing the body using an IAC60 carry case. (Standard Battery, BST-37)

Date/Time: 6/18/2006 7:39:40 AM
File Name: 18June06_W710i_GSM835_HMLQ_IAC60_BB01.da4
DUT: W710i body;
Program Notes: Battery - BST37 Humidity - 50.4% Ambient Temp - 24.6 C Simulant Temp - 24.5 C
Communication System: GSM 850 multi-slot Body; Frequency: 824 MHz;Duty Cycle: 1:4.15
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 824 MHz; s = 0.992 mho/m; e_r = 52.8; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(5.88, 5.88, 5.88); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (71x121x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.413 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.6 V/m; Power Drift = 0.013 dB
Peak SAR (extrapolated) = 0.533 W/kg
SAR(1 g) = 0.387 mW/g; SAR(10 g) = 0.271 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.410 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.6 V/m; Power Drift = 0.013 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.533 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.533mW/g

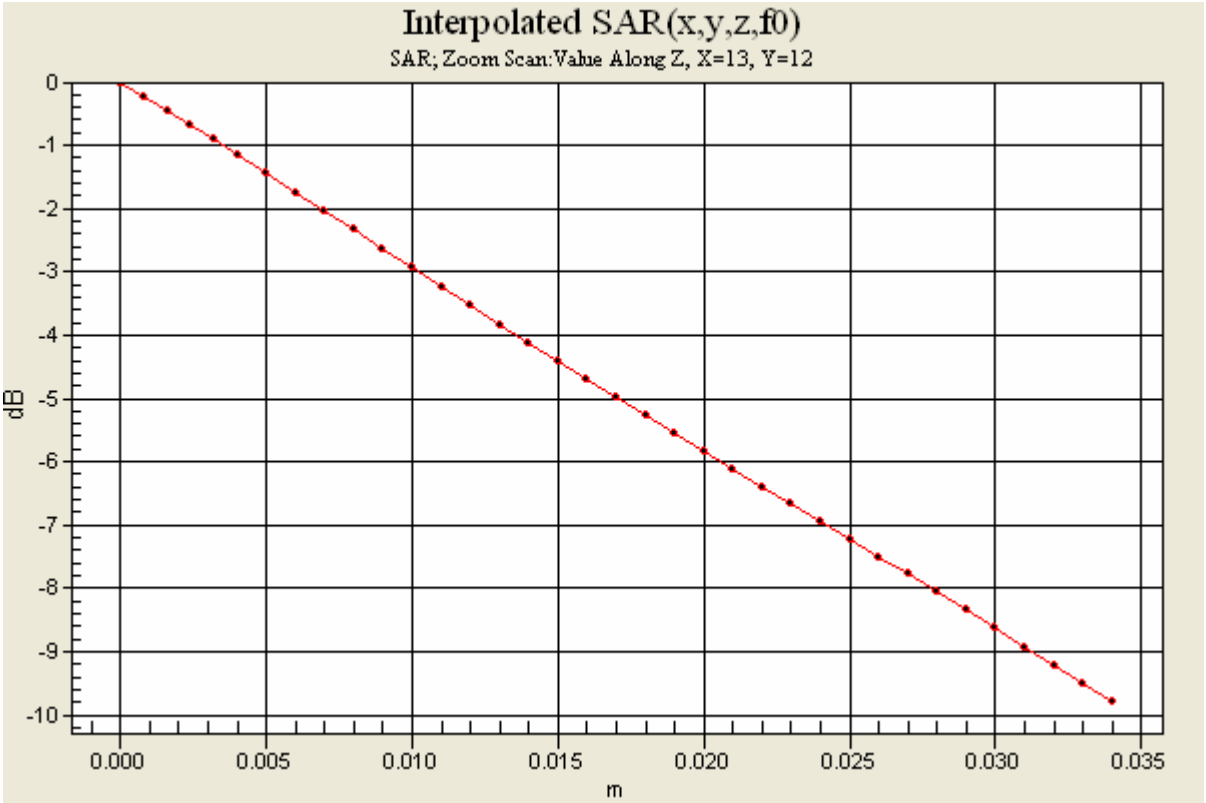


Exhibit 11

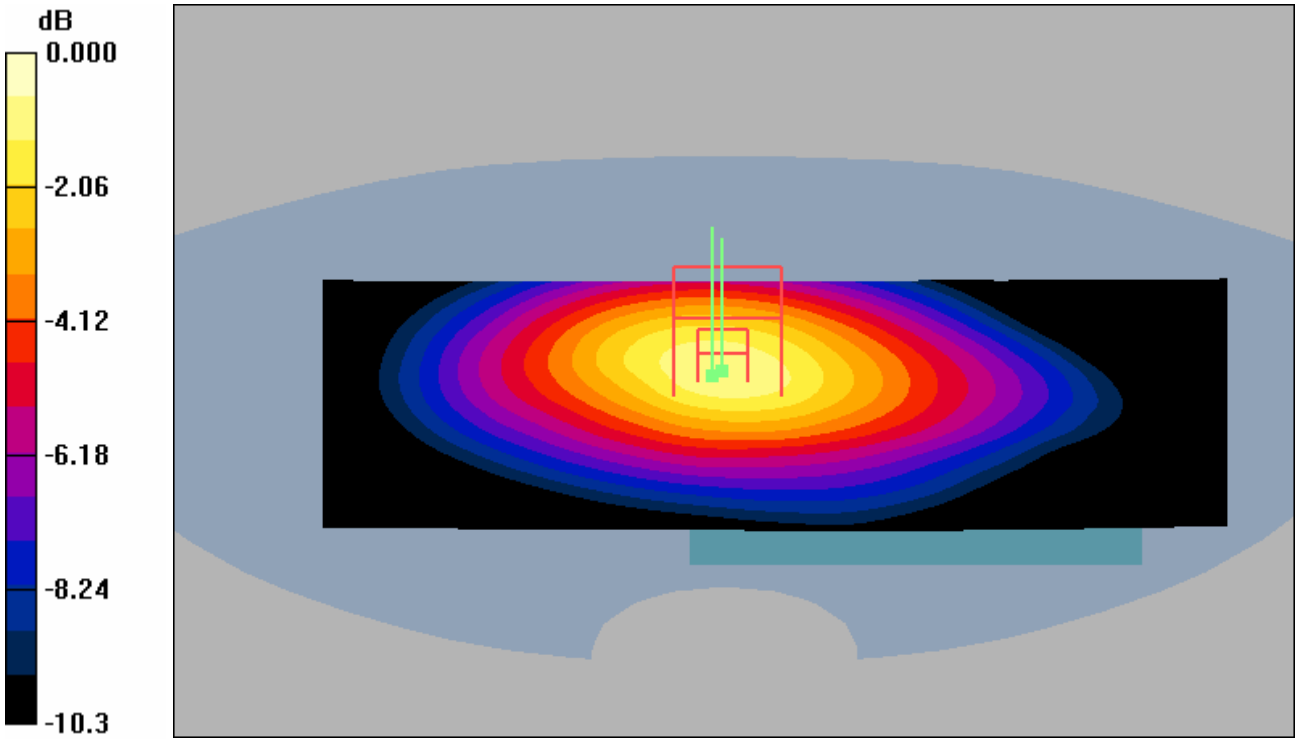
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 800 GSM band. Measured with front of device facing the body using a 15mm spacer. (Standard Battery, BST-37)

Date/Time: 6/19/2006 7:41:45 AM
File Name: 19June06_W710i_GSM835_HMLQ_15mm_BF01.da4
DUT: W710i body;
Program Notes: Battery - BST37 Humidity - 39.1% Ambient Temp - 24 C Simulant Temp - 23.9 C
Communication System: GSM 850 multi-slot Body; Frequency: 824 MHz;Duty Cycle: 1:4.15
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 824 MHz; s = 0.997 mho/m; e_r = 54.3; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(5.88, 5.88, 5.88); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (71x121x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.233 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.2 V/m; Power Drift = -0.114 dB
Peak SAR (extrapolated) = 0.280 W/kg
SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.149 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.223 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.2 V/m; Power Drift = -0.114 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.280 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.280mW/g

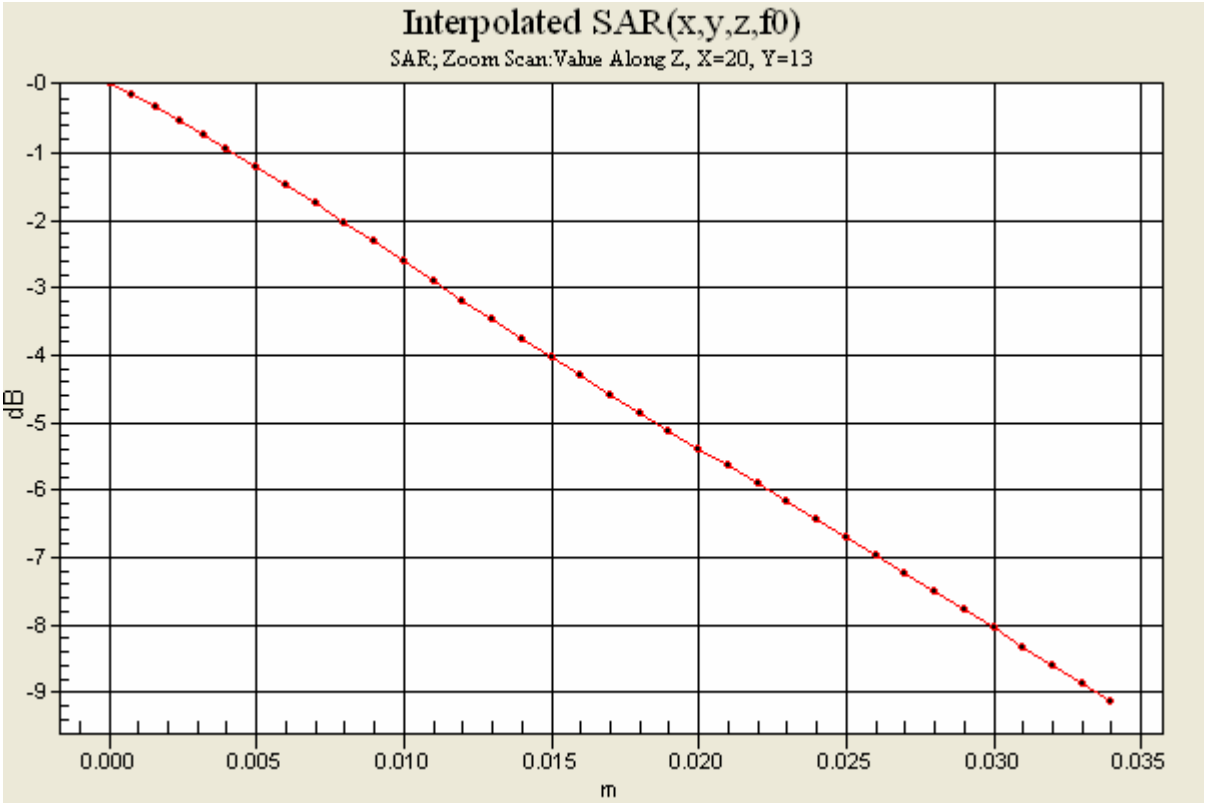


Exhibit 11

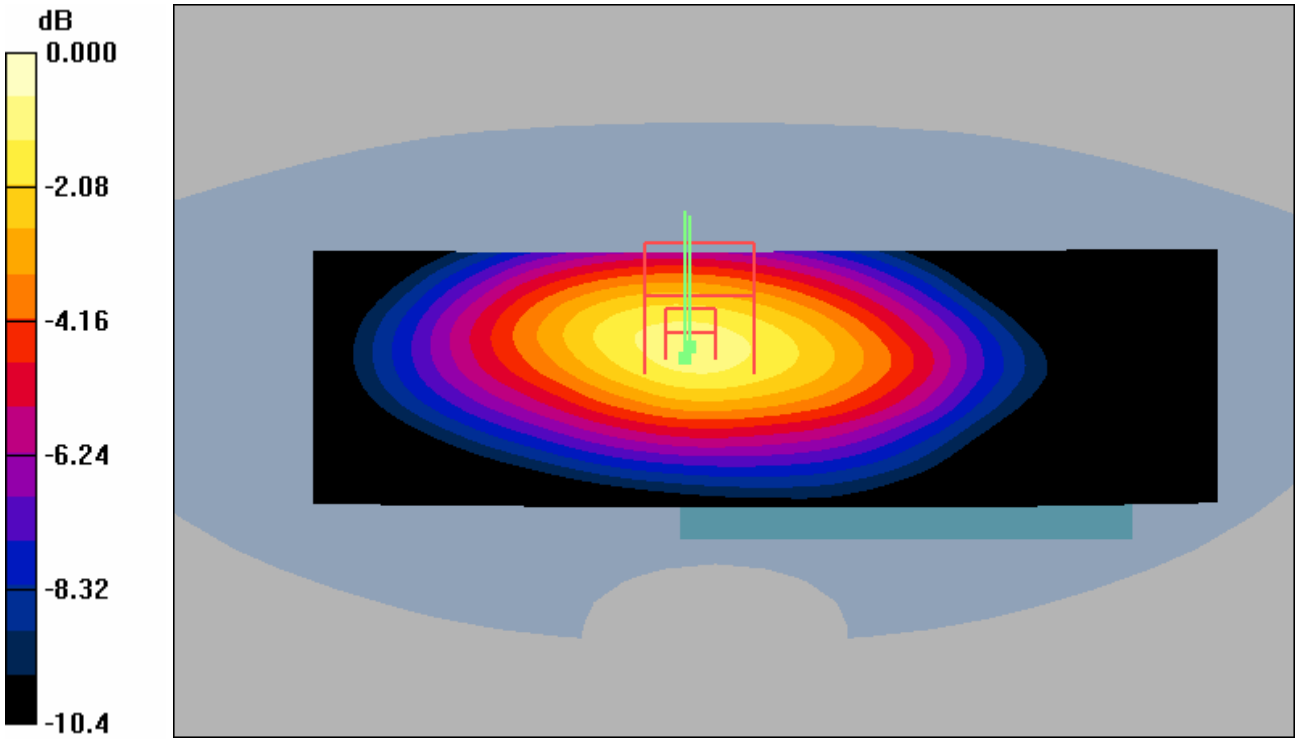
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 800 GSM band. Measured with front of device facing the body using an ICE26 carry case. (Standard Battery, BST-37)

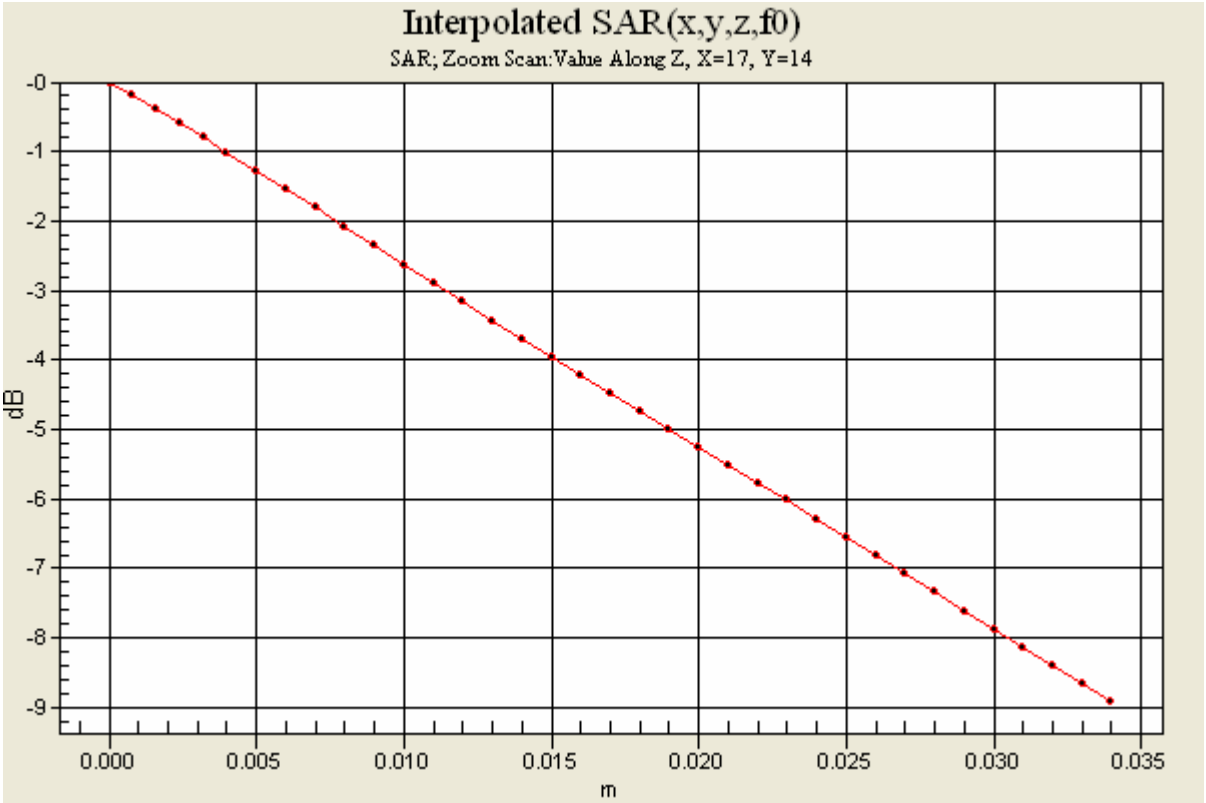
Date/Time: 6/19/2006 9:45:10 AM
File Name: 19June06_W710i_GSM835_HMLQ_ICE26_BF01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 39.1% Ambient Temp - 24 C Simulant Temp - 23.9 C
Communication System: GSM 850 multi-slot Body; Frequency: 824 MHz;Duty Cycle: 1:4.15
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 824 MHz; s = 0.997 mho/m; e_r = 54.3; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(5.88, 5.88, 5.88); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (71x121x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.237 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.6 V/m; Power Drift = -0.039 dB
Peak SAR (extrapolated) = 0.294 W/kg
SAR(1 g) = 0.220 mW/g; SAR(10 g) = 0.157 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.233 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.6 V/m; Power Drift = -0.039 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.294 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.294mW/g



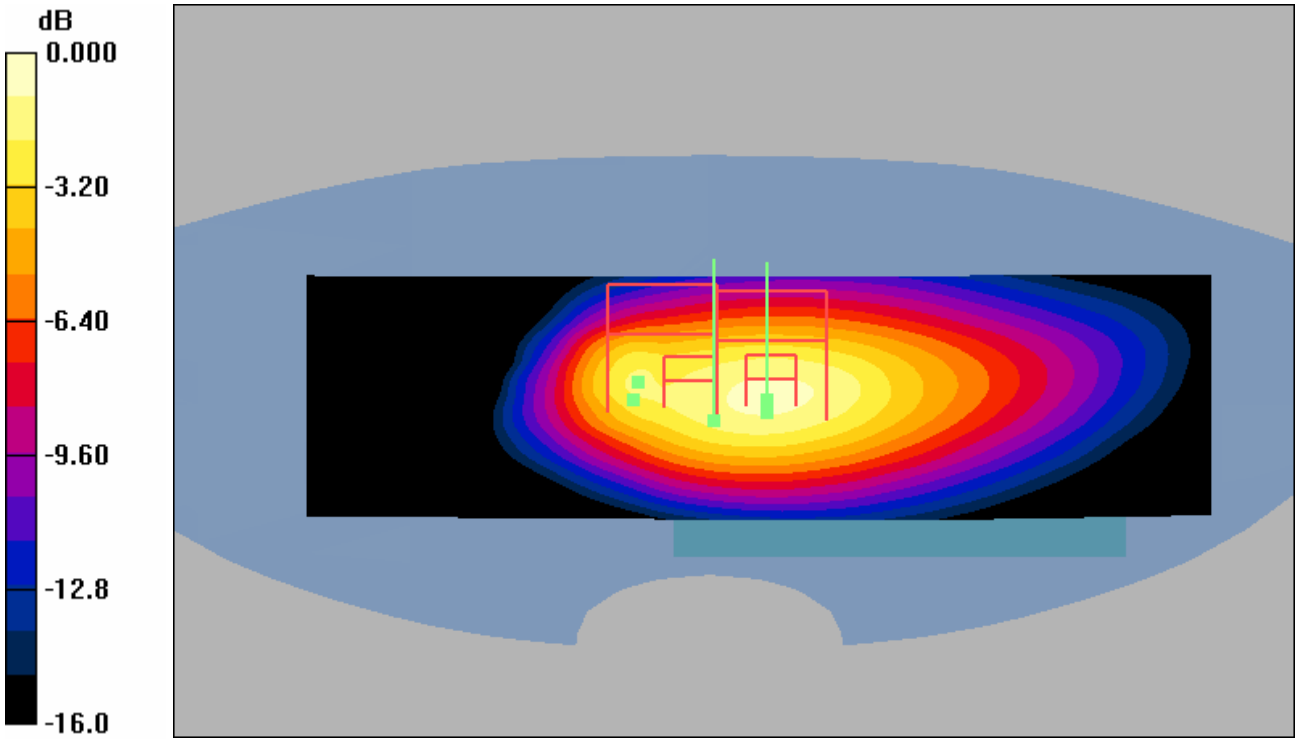
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 800 GSM band. Measured with back of device facing the body using a 15mm SPACER with Blue Tooth. (Standard Battery BST-37)

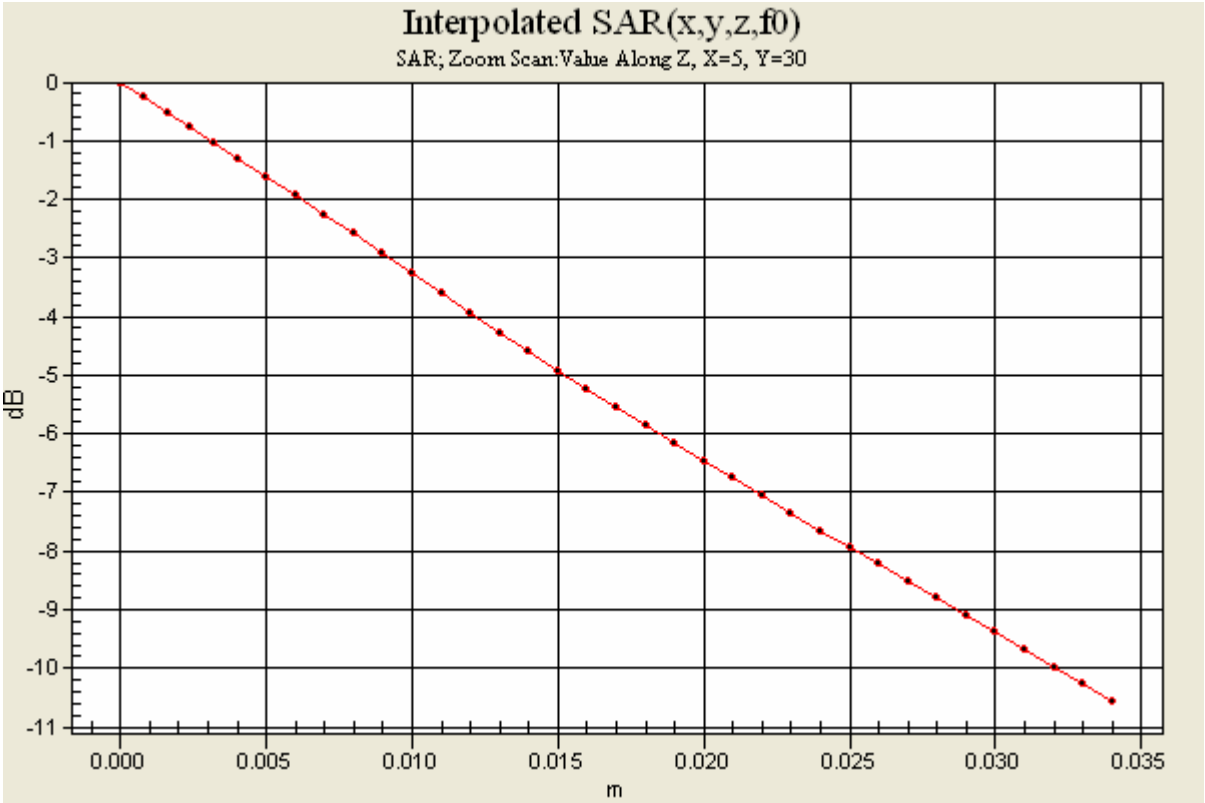
Date/Time: 6/19/2006 11:08:58 AM
File Name: 19June06_W710i_GSM835_HMLQ_15mm_BT_BB01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 40.4% Ambient Temp - 23.4 C Simulant Temp - 23.6 C
Communication System: GSM 850 multi-slot Body; Frequency: 824 MHz;Duty Cycle: 1:4.15
Medium: Head 835/900 MHzMedium parameters used (interpolated): f = 824 MHz; s = 0.997 mho/m; e_r = 54.3; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(5.88, 5.88, 5.88); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Body); Type: SAM; Serial: TP: 1031
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (71x121x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.863 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.5 V/m; Power Drift = 0.014 dB
Peak SAR (extrapolated) = 1.11 W/kg
SAR(1 g) = 0.803 mW/g; SAR(10 g) = 0.547 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.863 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.5 V/m; Power Drift = 0.014 dB
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.400 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.759 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.5 V/m; Power Drift = 0.014 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.11 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.5 V/m; Power Drift = 0.014 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.02 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 1.02mW/g



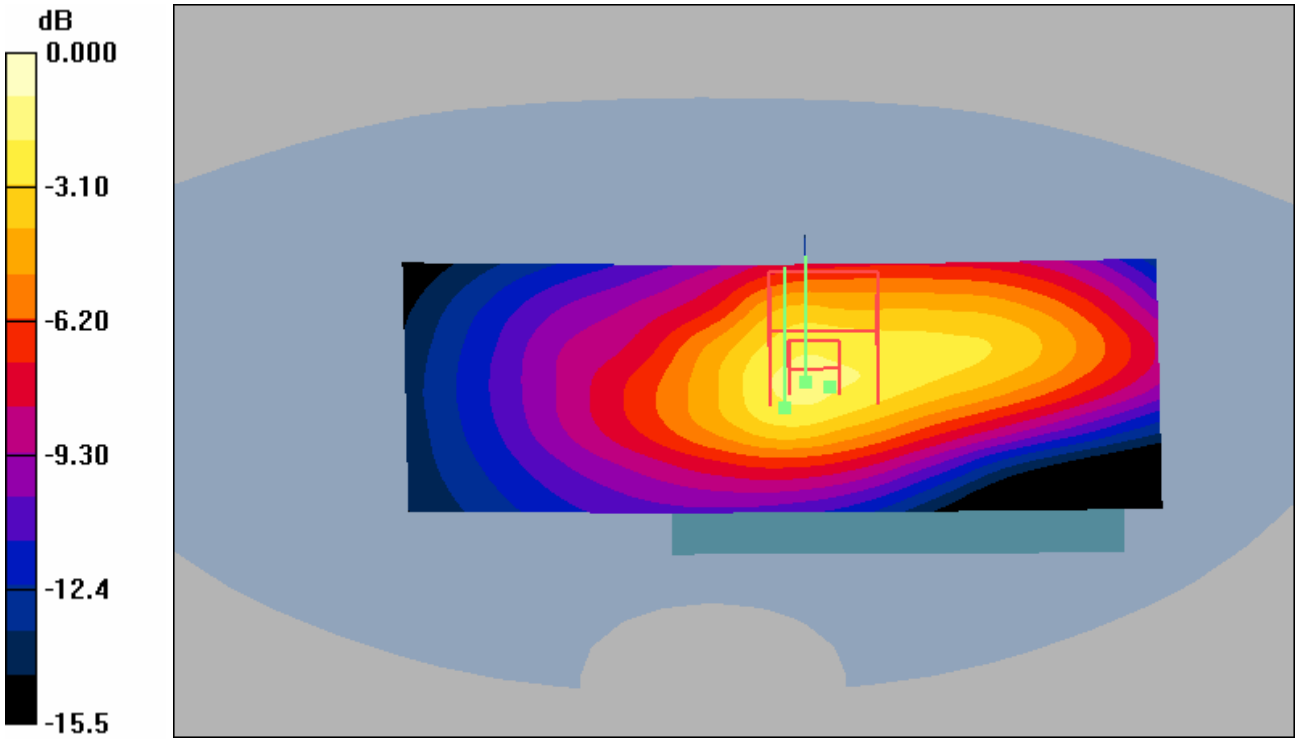
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using a 15mm spacer. (Standard Battery, BST-37)

Date/Time: 7/6/2006 7:51:41 AM
File Name: 06July06_W710i_GSM1900_HLUJ_15mm_BB01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 41.2 % Ambient Temp - 23 C Simulant Temp - 22.7 C
Communication System: DCS 1900 Body; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: Head 1800/1900 MHzMedium parameters used (interpolated): f = 1850.2 MHz; s = 1.47 mho/m; e_r = 51; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.12, 4.12, 4.12); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (61x101x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.799 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.5 V/m; Power Drift = -0.035 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.717 mW/g; SAR(10 g) = 0.450 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.769 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.5 V/m; Power Drift = -0.035 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.16 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 1.16mW/g

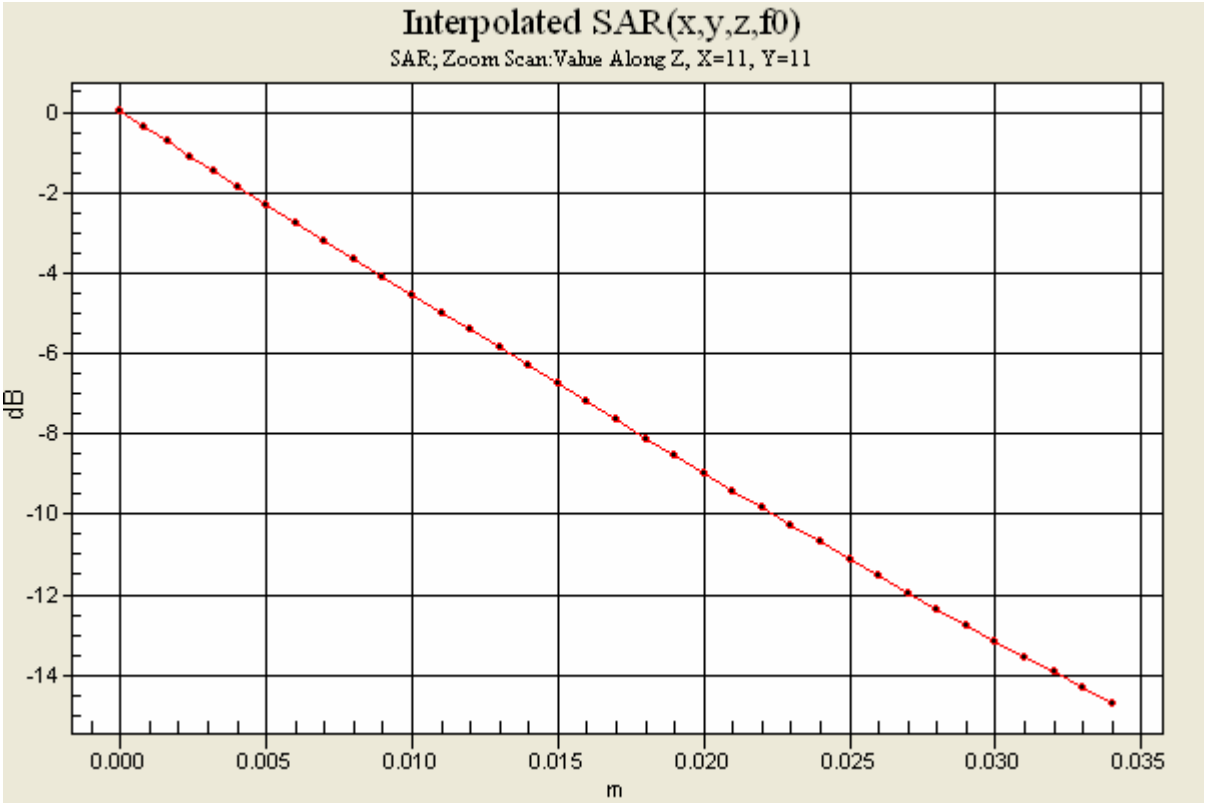


Exhibit 11

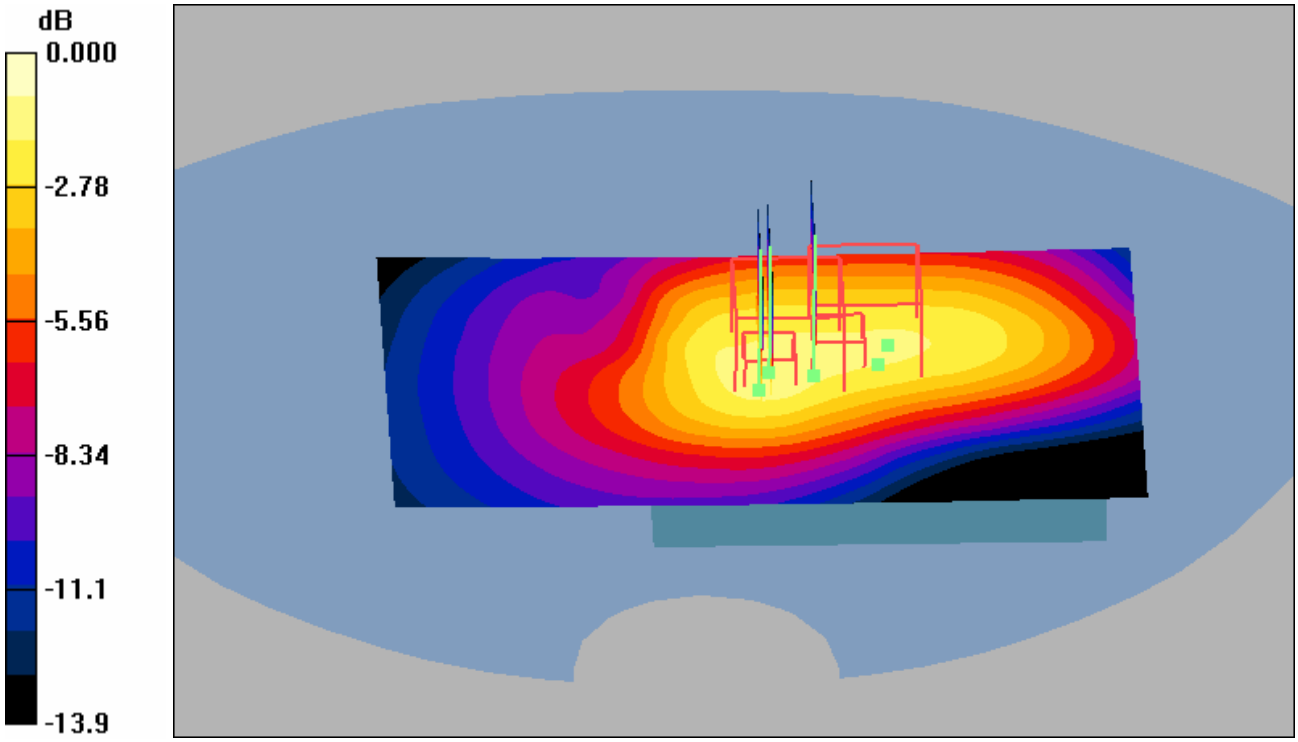
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using an ICE26 carry case. (Standard Battery, BST-37)

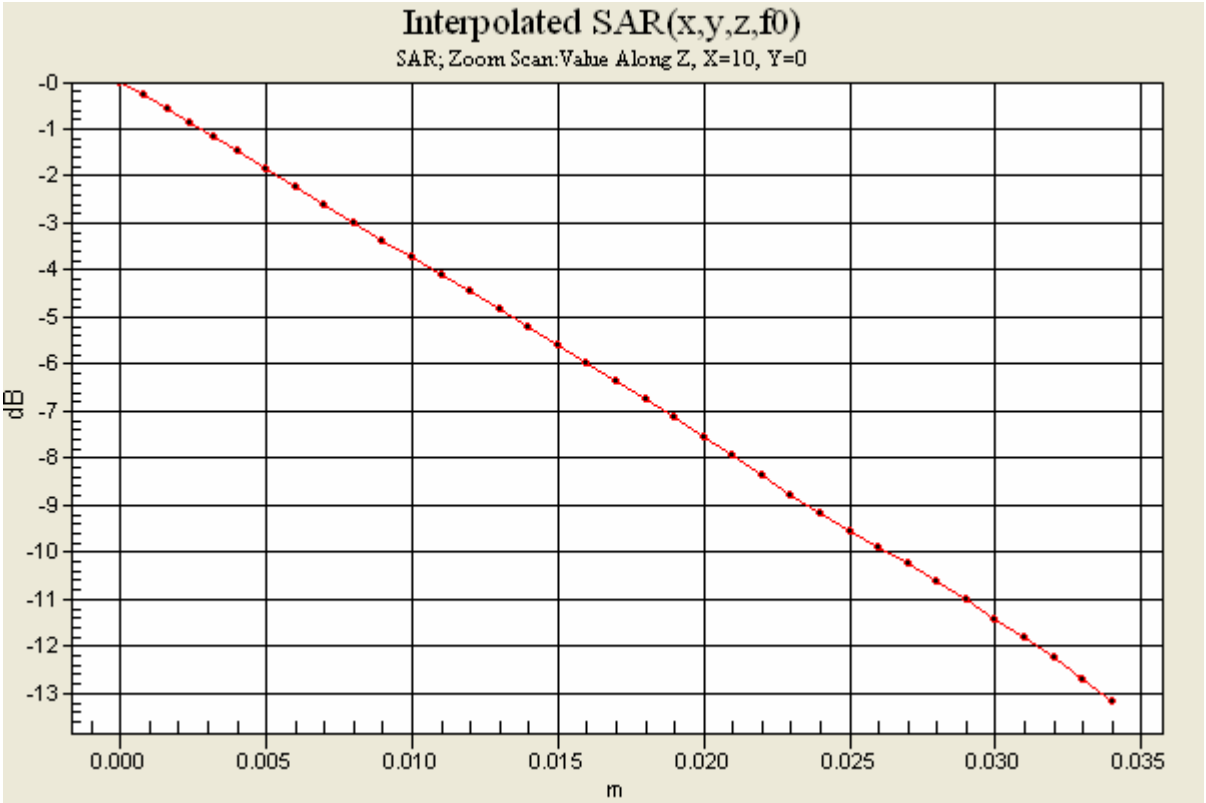
Date/Time: 7/6/2006 8:13:22 AM
File Name: 06July06_W710i_GSM1900_HLUJ_ICE26_BB01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 42.7 % Ambient Temp - 23.2 C Simulant Temp - 22.8 C
Communication System: DCS 1900 Body; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: Head 1800/1900 MHzMedium parameters used (interpolated): f = 1850.2 MHz; s = 1.47 mho/m; e_r = 51; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.12, 4.12, 4.12); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (61x101x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.699 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.9 V/m; Power Drift = -0.158 dB
Peak SAR (extrapolated) = 0.994 W/kg
SAR(1 g) = 0.628 mW/g; SAR(10 g) = 0.398 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.684 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.9 V/m; Power Drift = -0.158 dB
Peak SAR (extrapolated) = 0.897 W/kg
SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.383 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.637 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.9 V/m; Power Drift = -0.158 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.994 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.9 V/m; Power Drift = -0.158 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.897 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.897mW/g



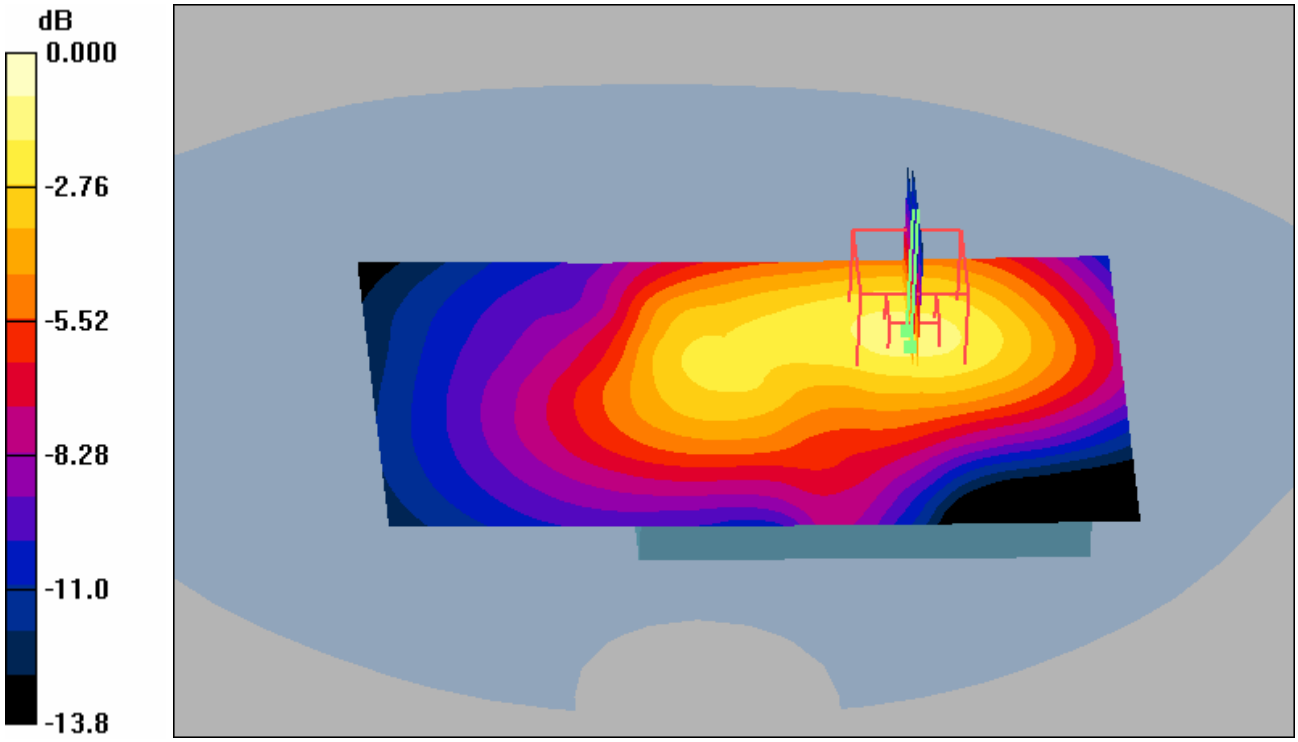
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using an IAC60 carry case. (Standard Battery, BST-37)

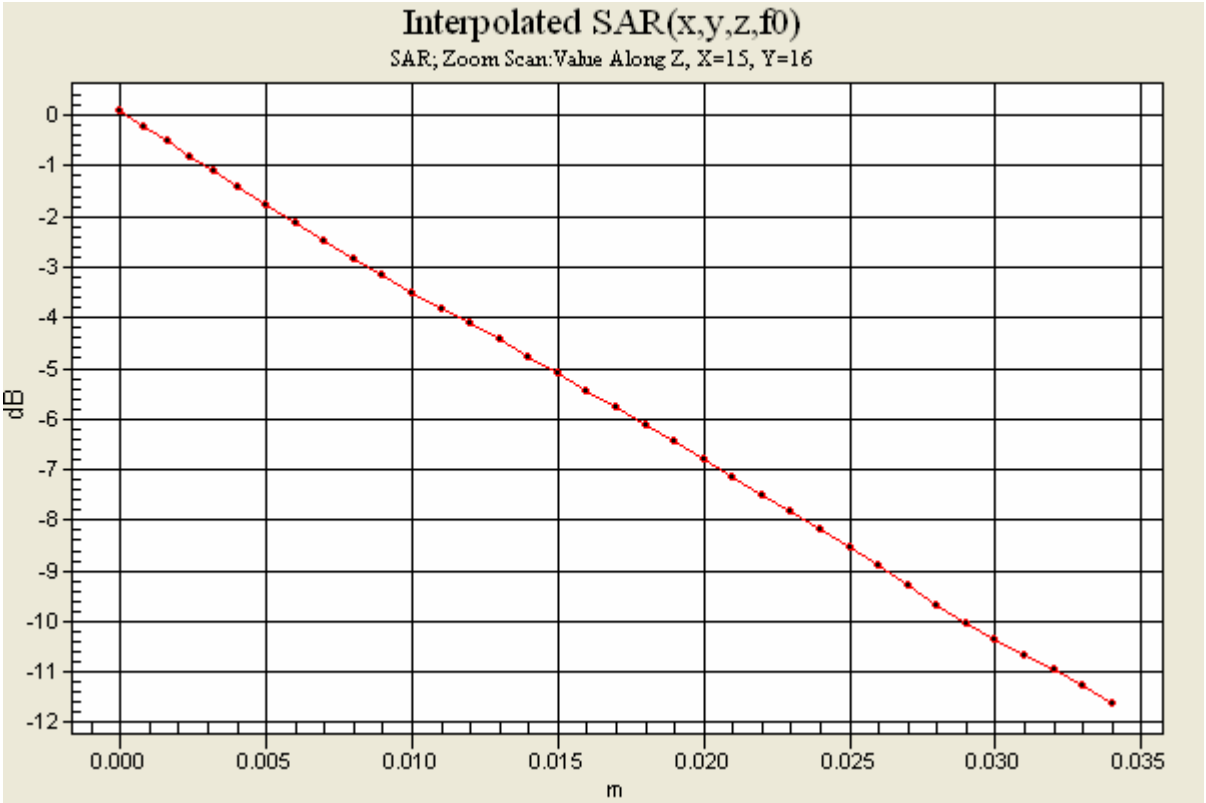
Date/Time: 7/6/2006 8:47:56 AM
File Name: 06July06_W710i_GSM1900_HLUJ_IAC60_BB01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 40.9 % Ambient Temp - 23.1 C Simulant Temp - 22.8 C
Communication System: DCS 1900 Body; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: Head 1800/1900 MHzMedium parameters used (interpolated): f = 1850.2 MHz; s = 1.47 mho/m; e_r = 51; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.12, 4.12, 4.12); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (61x101x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.508 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.2 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 0.715 W/kg
SAR(1 g) = 0.475 mW/g; SAR(10 g) = 0.310 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.509 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.2 V/m; Power Drift = -0.130 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.715 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.715mW/g



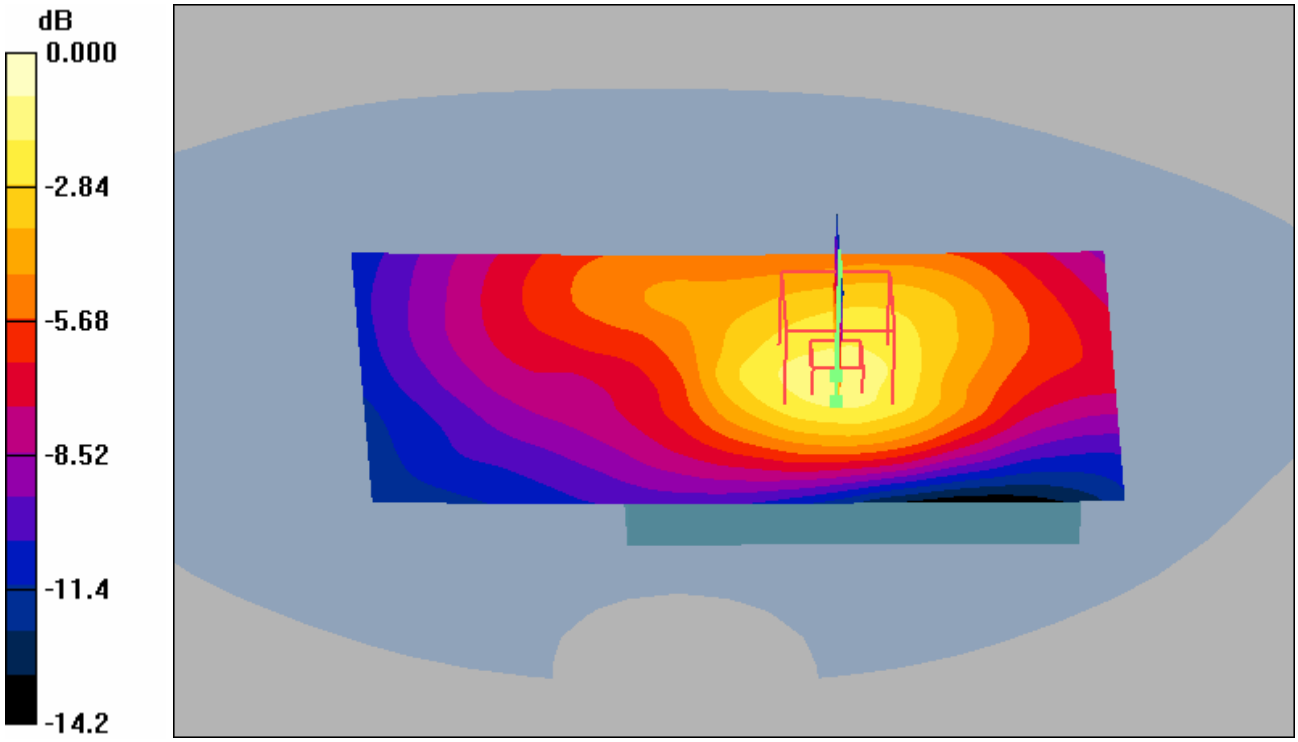
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using a 15mm spacer. (Standard Battery, BST-37)

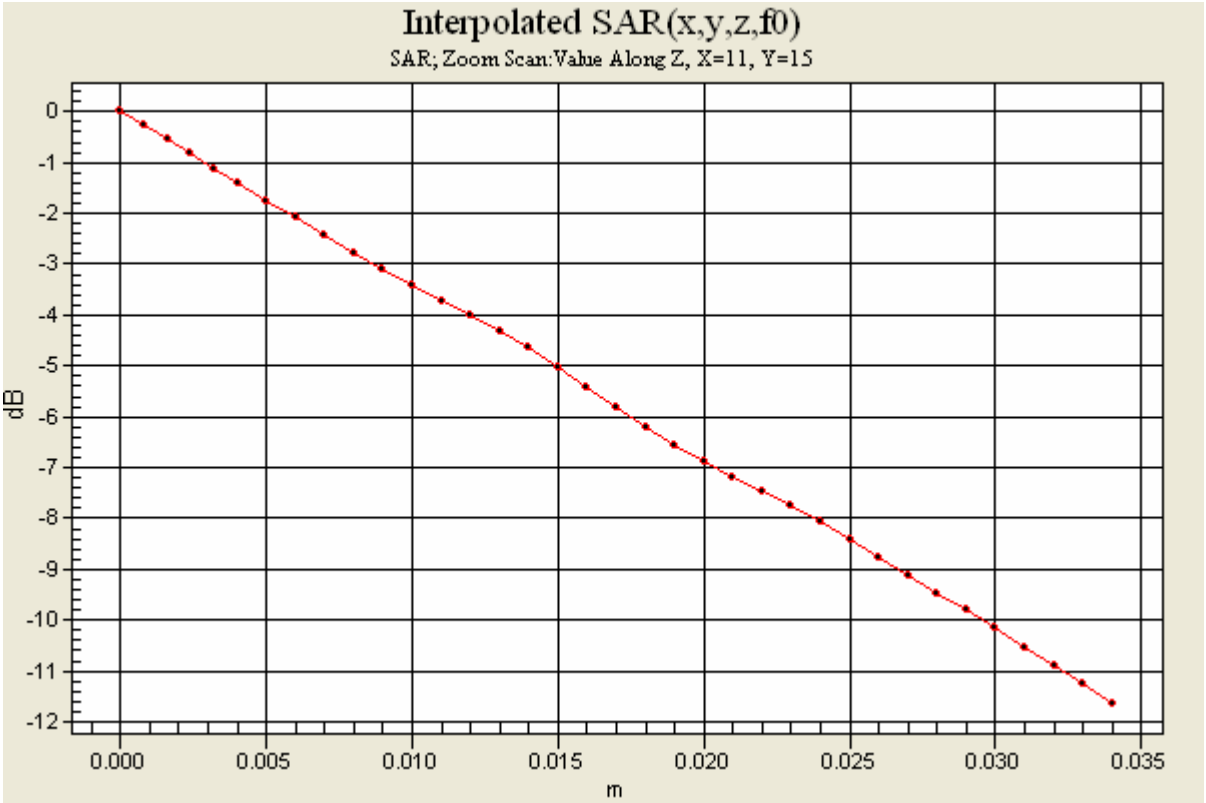
Date/Time: 6/21/2006 12:58:29 PM
File Name: 21June06_W710i_GSM1900_HLUJ_15mm_BF01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 41.3 % Ambient Temp - 22.5 C Simulant Temp - 22.6 C
Communication System: DCS 1900 Body; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: Head 1800/1900 MHzMedium parameters used (interpolated): f = 1850.2 MHz; s = 1.48 mho/m; e_r = 51.4; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.12, 4.12, 4.12); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (61x101x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.230 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.75 V/m; Power Drift = -0.038 dB
Peak SAR (extrapolated) = 0.315 W/kg
SAR(1 g) = 0.215 mW/g; SAR(10 g) = 0.141 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.230 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.75 V/m; Power Drift = -0.038 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.315 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.315mW/g



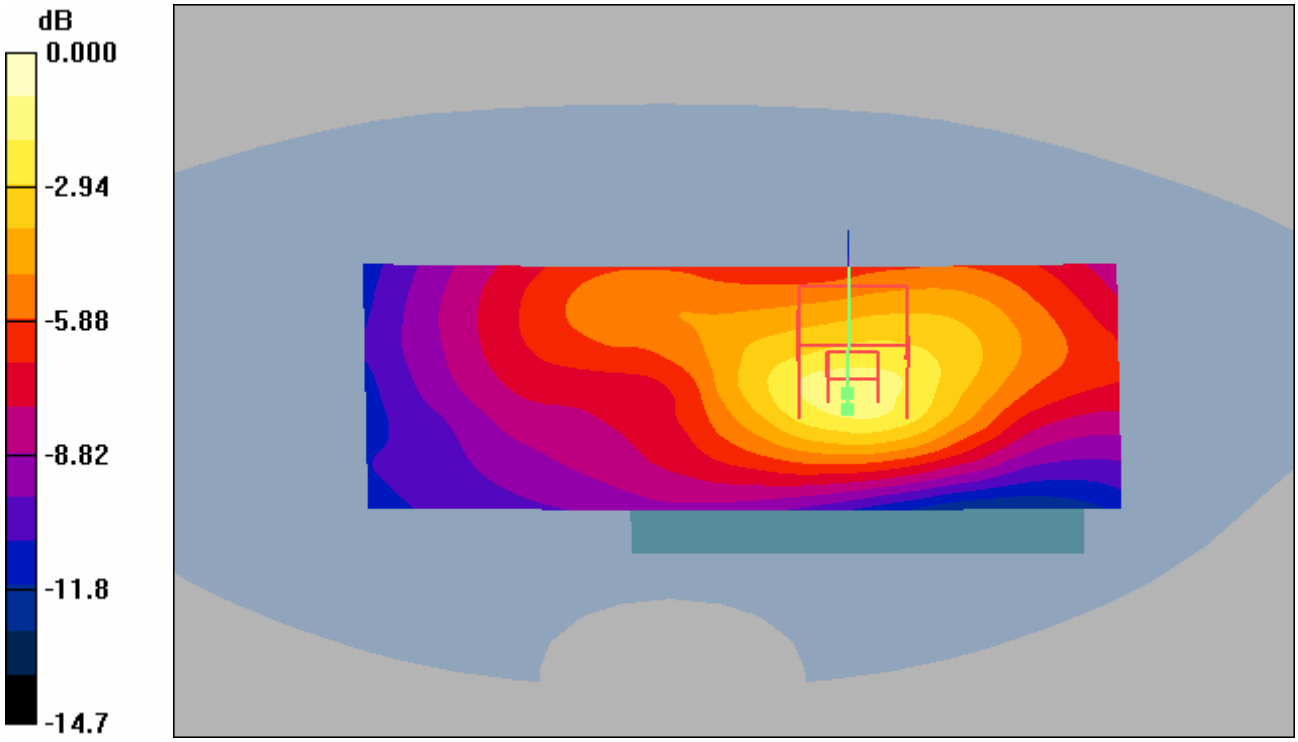
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using an ICE26 carry case. (Standard Battery, BST-37)

Date/Time: 6/21/2006 1:47:42 PM
File Name: 21June06_W710i_GSM1900_HLUJ_ICE26_BF01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 44.1 % Ambient Temp - 22.4 C Simulant Temp - 22.3 C
Communication System: DCS 1900 Body; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: Head 1800/1900 MHzMedium parameters used (interpolated): f = 1850.2 MHz; s = 1.48 mho/m; e_r = 51.4; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.12, 4.12, 4.12); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (61x101x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.236 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.31 V/m; Power Drift = -0.146 dB
Peak SAR (extrapolated) = 0.322 W/kg
SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.138 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.234 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.31 V/m; Power Drift = -0.146 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.322 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.322mW/g

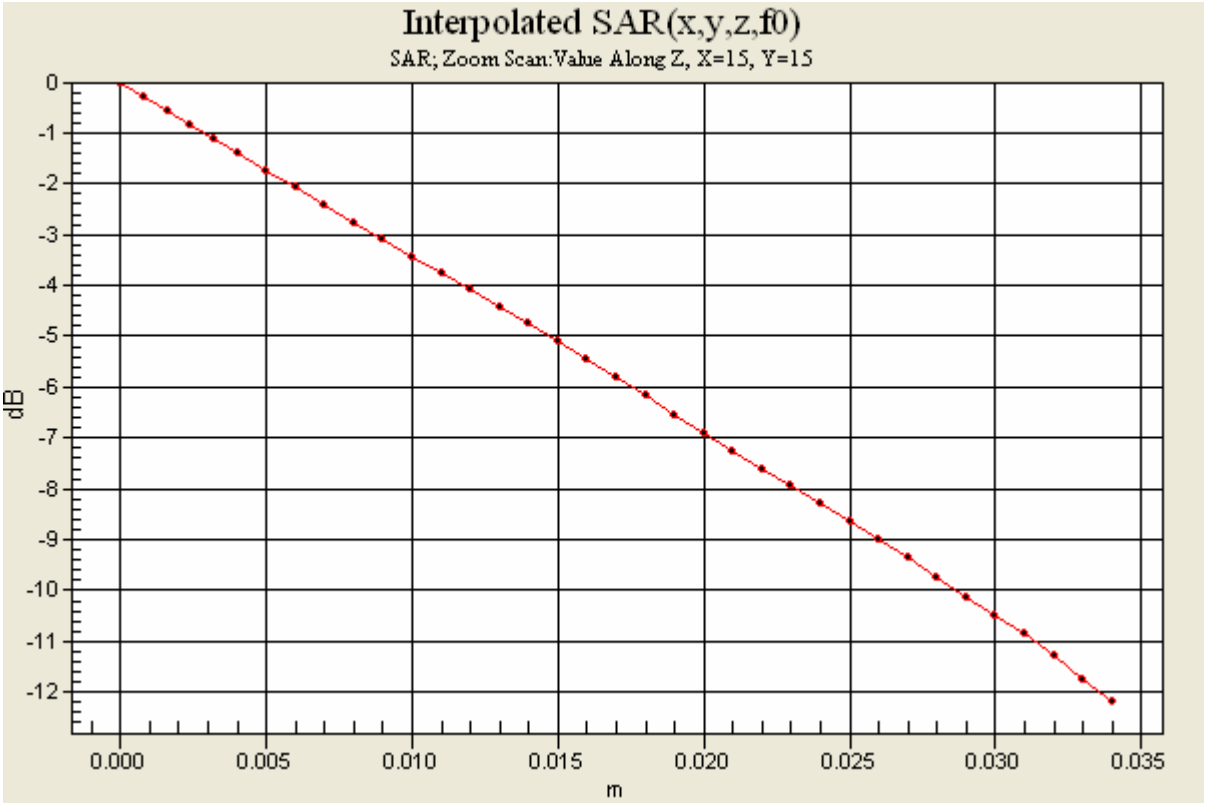


Exhibit 11

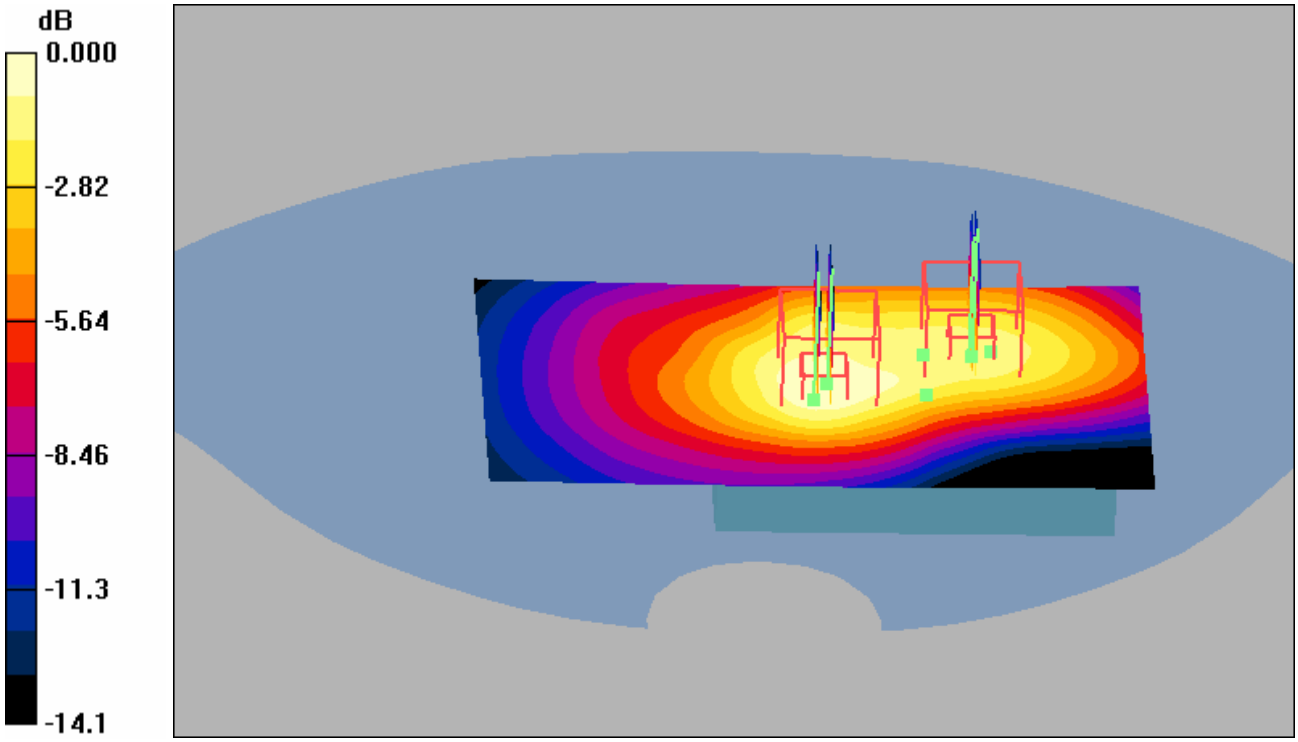
Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using a 15mm SPACER with Blue Tooth. (Standard Battery BST-37)

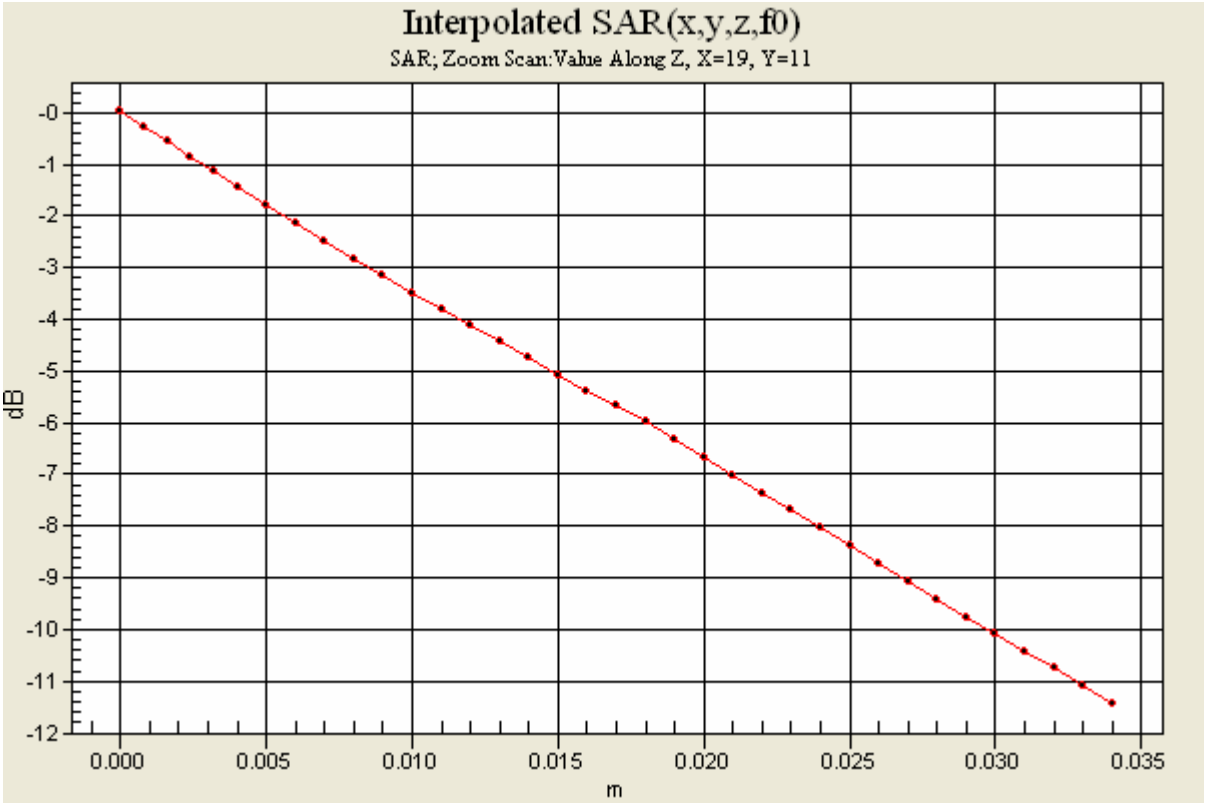
Date/Time: 7/6/2006 3:13:24 PM
File Name: 06July06_W710i_GSM1900_HLUJ_15mm_BT_BB01.da4
DUT: W710i
Program Notes: Battery - BST37 Humidity - 40.9 % Ambient Temp - 23.1 C Simulant Temp - 22.8 C
Communication System: DCS 1900 Body; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium: Head 1800/1900 MHzMedium parameters used (interpolated): f = 1850.2 MHz; s = 1.47 mho/m; e_r = 51; ? = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1539; ConvF(4.12, 4.12, 4.12); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Body); Type: SAM; Serial: TP: 1020
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Unnamed procedure/Area Scan (61x101x1):
Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.815 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.4 V/m; Power Drift = -0.118 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.725 mW/g; SAR(10 g) = 0.424 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.797 mW/g
Unnamed procedure/Zoom Scan (7x7x7)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.4 V/m; Power Drift = -0.118 dB
Peak SAR (extrapolated) = 0.765 W/kg
SAR(1 g) = 0.516 mW/g; SAR(10 g) = 0.351 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.549 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.4 V/m; Power Drift = -0.118 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.25 mW/g
Unnamed procedure/Zoom Scan (31x31x36)/Cube 1:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.4 V/m; Power Drift = -0.118 dB
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.765 mW/g

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



0 dB = 0.765mW/g



Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Appendix 4

Probe Calibration Certificates

ET3DV6 SN:1539 **November 22, 2005**

DASY - Parameters of Probe: ET3DV6 SN:1539

Sensitivity in Free Space[A] Diode Compression[B]

NormX	**1.36** ± 10.1%	$\mu V/(V/m)^2$	DCP X	**89** mV
NormY	**1.27** ± 10.1%	$\mu V/(V/m)^2$	DCP Y	**89** mV
NormZ	**1.39** ± 10.1%	$\mu V/(V/m)^2$	DCP Z	**89** mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL **900 MHz** **Typical SAR gradient: 5 % per mm**

Sensor Center to Phantom Surface Distance		**3.7 mm**	**4.7 mm**
SAR_{be} [%]	Without Correction Algorithm	8.8	4.7
SAR_{be} [%]	With Correction Algorithm	0.1	0.3

TSL **1750 MHz** **Typical SAR gradient: 10 % per mm**

Sensor Center to Phantom Surface Distance		**3.7 mm**	**4.7 mm**
SAR_{be} [%]	Without Correction Algorithm	13.0	8.4
SAR_{be} [%]	With Correction Algorithm	0.8	0.0

Sensor Offset

Probe Tip to Sensor Center	**2.7** mm

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

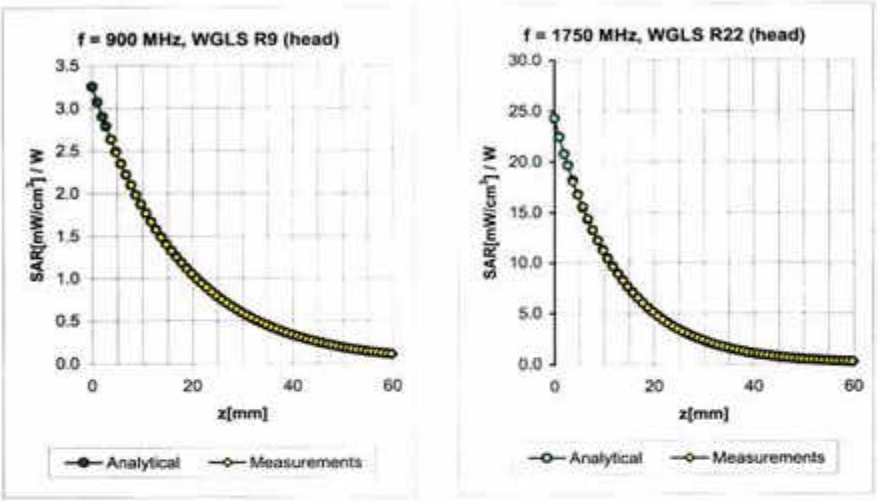
[A] The uncertainties of NormX,Y,Z do not affect the E^2-field uncertainty inside TSL (see Page 8).

[B] Numerical linearization parameter: uncertainty not required.

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

ET3DV6 SN:1539 **November 22, 2005**

Conversion Factor Assessment



f [MHz]	Validity [MHz][C]	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
835	± 50 / ± 100	Head	41.5 ± 5%	0.90 ± 5%	0.63	1.80	5.99 ± 11.0% (k=2)
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.54	1.93	5.86 ± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.66	2.19	4.76 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.64	2.43	4.55 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.81	2.04	4.06 ± 11.8% (k=2)
835	± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	0.56	1.99	5.88 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.53	2.08	5.63 ± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.65	2.48	4.21 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.66	2.48	4.12 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	1.18	1.35	4.06 ± 11.8% (k=2)

[C] The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Certificate No: ET3-1539_Nov05 Page 8 of 9

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

ET3DV6 SN:1583 **November 22, 2005**

DASY - Parameters of Probe: ET3DV6 SN:1583

Sensitivity in Free Space[A]

Diode Compression[B]

NormX	1.81 ± 10.1%	$\mu V/(V/m)^2$	DCP X	93 mV
NormY	2.03 ± 10.1%	$\mu V/(V/m)^2$	DCP Y	93 mV
NormZ	1.98 ± 10.1%	$\mu V/(V/m)^2$	DCP Z	93 mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL **900 MHz** **Typical SAR gradient: 5 % per mm**

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR_{be} [%]	Without Correction Algorithm	7.7	4.3
SAR_{be} [%]	With Correction Algorithm	0.0	0.2

TSL **1750 MHz** **Typical SAR gradient: 10 % per mm**

Sensor Center to Phantom Surface Distance		3.7 mm	4.7 mm
SAR_{be} [%]	Without Correction Algorithm	12.1	8.3
SAR_{be} [%]	With Correction Algorithm	0.7	0.2

Sensor Offset

Probe Tip to Sensor Center	2.7 mm

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

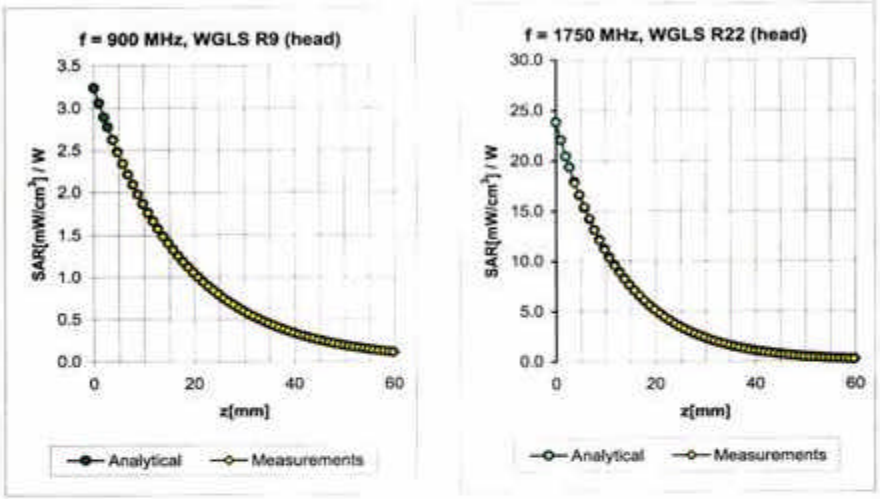
[A] The uncertainties of NormX,Y,Z do not affect the E^2-field uncertainty inside TSL (see Page 8).

[B] Numerical linearization parameter: uncertainty not required.

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

ET3DV6 SN:1583 **November 22, 2005**

Conversion Factor Assessment



f [MHz]	Validity [MHz][C]	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
835	± 50 / ± 100	Head	41.5 ± 5%	0.90 ± 5%	0.50	1.81	6.82 ± 11.0% (k=2)
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.48	1.93	6.51 ± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.54	2.38	5.07 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.52	2.62	4.93 ± 11.0% (k=2)
2450	± 50 / ± 100	Head	39.2 ± 5%	1.80 ± 5%	0.62	2.26	4.31 ± 11.8% (k=2)
835	± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	0.44	2.07	6.53 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.44	2.14	6.35 ± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.52	2.78	4.60 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.53	2.81	4.46 ± 11.0% (k=2)
2450	± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.69	1.93	4.22 ± 11.8% (k=2)

[C] The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Certificate No: ET3-1583_Nov05 Page 8 of 9

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Appendix 5

Measurement Uncertainty Budget

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Table 1. Uncertainty Budget for System Performance Check (Dipole & flat phantom) DASY4 System

a	*b*	*c*	*d*	*e = f(d,k)*	*f*	*g*	*h = c x f / e*	*i = c x g / e*	*k*
Uncertainty Component	**Sec.**	**Tol. (± %)**	**Prob. Dist.**	**Div.**	**c_i (1-g)**	**c_i (10-g)**	**1-g u_i (±%)**	**10-g u_i (±%)**	**v_i**
Measurement System									
Probe Calibration (*k*=1)	E2.1	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
Axial Isotropy	E.2.2	9.6	R	1.73	0.707	0.707	3.9	3.9	∞
Hemispherical Isotropy	E.2.2	1.0	R	1.73	1	1	0.6	0.6	∞
Boundary Effect	E.2.3	4.7	R	1.73	1	1	2.7	2.7	∞
Linearity	E.2.4	1.0	R	1.73	1	1	0.6	0.6	∞
System Detection Limits	E.2.5	1.0	N	1	1	1	1.0	1.0	∞
Readout Electronics	E.2.6	0.8	R	1.73	1	1	0.5	0.5	∞
Response Time	E.2.7	2.6	R	1.73	1	1	1.5	1.5	∞
Integration Time	E.2.8	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
RF Ambient Conditions	E.6.1	3.0	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance(corresponds to the mechanical constrains of the robot)	E.6.2	0.4	R	1.73	1	1	0.2	0.2	∞
Probe Positioning with respect to Phantom Shell	E.6.3	2.9	R	1.73	1	1	1.7	1.7	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E.5	1.0	R	1.73	1	1	0.6	0.6	∞
Dipole									
Dipole Axis to Liquid Distance	8, E.4.2	1.0	R	1.73	1	1	0.6	0.6	∞
Input Power and SAR Drift Measurement	8, 6.6.2	5.0	R	1.73	1	1	2.9	2.9	∞
Phantom and Tissue Parameters									
Phantom Uncertainty - shell thickness tolerance	E.3.1	4.0	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity - deviation from target values (5)	E.3.2	4.3	R	1.73	0.64	0.43	1.59	1.07	∞
Liquid Conductivity - measurement uncertainty (6)	E.3.3	6.20	R	1.73	0.64	0.43	2.29	1.54	∞

Liquid Permittivity - deviation from target values (5)	E.3.2	3.7	R	1.73	0.6	0.49	1.28	1.05	∞
Liquid Permittivity - measurement uncertainty (6)	E.3.3	6.08	R	1.73	0.6	0.49	2.11	1.72	∞
Combined Standard Uncertainty			RSS				9.37	9.03	
Expanded Uncertainty (95% C.L.)							18.74	18.05	

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Table 2: Uncertainty Budget for the Device Under Test with DASY4 System

a	*b*	*c*	*d*	*e = f(d,k)*	*f*	*g*	*h = c x f / e*	*i = c x g / e*	*k*
Uncertainty Component	**Sec.**	**Tol. (± %)**	**Prob. Dist.**	**Div.**	**c_i (1-g)**	**c_i (10-g)**	**1-g u_i (±%)**	**10-g u_i (±%)**	**v_i**
Measurement System									
Probe Calibration (*k*=1)	E2.1	4.8	N	1	1	1	4.8	4.8	∞
Axial Isotropy	E.2.2	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	E.2.2	9.6	R	1.73	0.707	0.707	3.9	3.9	∞
Boundary Effect	E.2.3	1.0	R	1.73	1	1	0.6	0.6	∞
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	E.2.6	1.0	N	1	1	1	1.0	1.0	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions	E.6.1	3.0	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance(corresponds to the mechanical constrains of the robot)	E.6.2	0.4	R	1.73	1	1	0.2	0.2	∞
Probe Positioning with respect to Phantom Shell	E.6.3	2.9	R	1.73	1	1	1.7	1.7	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E.5	1.0	R	1.73	1	1	0.6	0.6	∞
Test sample Related									
Test Sample Positioning	E.4.2	2.4	N	1	1	1	2.4	2.4	4
Device Holder Uncertainty	E.4.1	1.4	R	1.73	1	1	0.8	0.8	4
Output Power Variation - SAR drift measurement (4)	6.6.2	5.0	R	1.73	1	1	2.9	2.9	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (shape and thickness tolerances)	E.3.1	4.0	R	1.73	1	1	2.3	2.3	∞

Prepared (also subject responsible if other)		No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon		REP 2006 005 W710i 02	
Approved	Checked		
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Liquid Conductivity - deviation from target values (5)	E.3.2	4.3	R	1.73	0.64	0.43	1.6	1.1	∞
Liquid Conductivity - measurement uncertainty (6)	E.3.3	6.20	R	1.73	0.64	0.43	2.3	1.5	∞
Liquid Permittivity - deviation from target values (5)	E.3.2	3.7	R	1.73	0.6	0.49	1.3	1.0	∞
Liquid Permittivity - measurement uncertainty (6)	E.3.3	6.08	R	1.73	0.6	0.49	2.1	1.7	∞
Combined Standard Uncertainty			RSS				**9.7**	**9.4**	
Expanded Uncertainty (95% CONFIDENCE LEVEL)			K=2				**19.4**	**18.8**	

Prepared (also subject responsible if other)	No.		
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02		
Approved / Checked			
SEM/CV/PF/P Gerard Hayes		A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Table 3a. Values for e'

Uncertainty Component	Tolerance (±%)	Probability Distribution	Divisor	c_i	Standard Uncertainty (±%)	v_i or v_{eff}
Repeatability (n repeats)	0.97	N	1	1	0.97	4
Network analyzer uncertainty sources	8.38	R	1.73	1	4.83	∞
Dielectric Error Sources	5.93	R	1.73	1	3.42	∞
Combined standard uncertainty					**6.08**	

Table 3b. Values for s

Uncertainty Component	Tolerance (±%)	Probability Distribution	Divisor	c_i	Standard Uncertainty (±%)	v_i or v_{eff}
Repeatability (n repeats)	1.85	N	1	1	1.85	4
Network analyzer uncertainty sources	8.38	R	1.73	1	4.83	∞
Dielectric Error Sources	5.93	R	1.73	1	3.42	∞
Combined standard uncertainty					**6.20**	

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

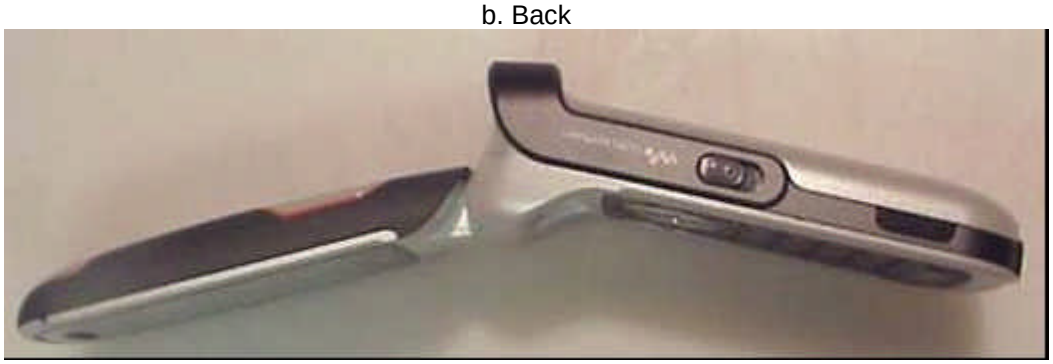
Appendix 6

Photographs of the Device Under Test

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

a. Front

b. Back



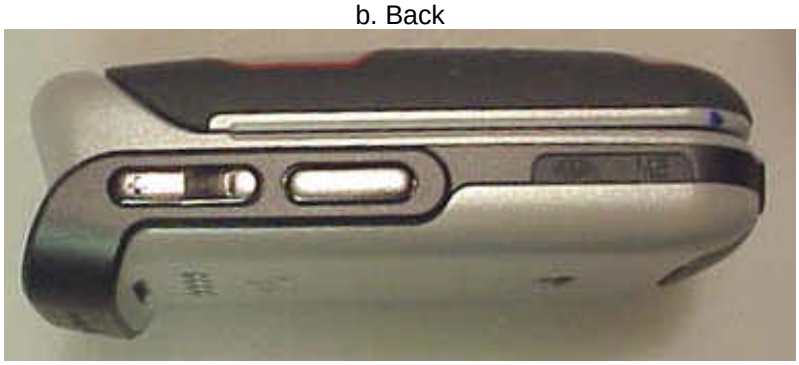
c. Side

View of Device (Open)

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

a. Front

b. Back



c. Side

View of Device (Closed)

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

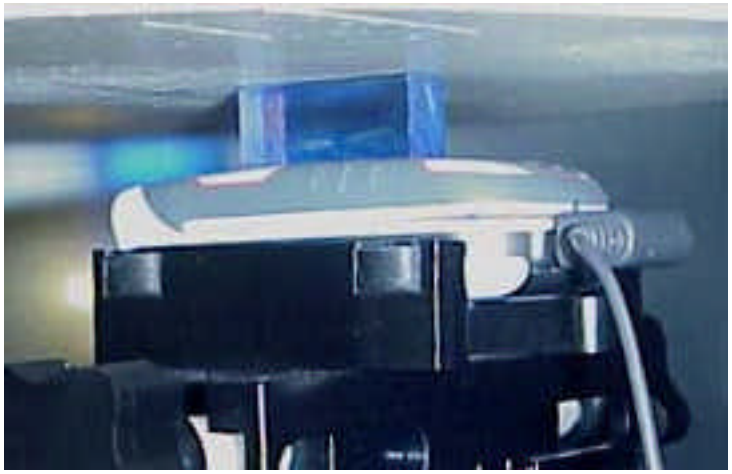
View of Hands-free Accessory

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Position of device against head phantom using the “cheek” position

Position of device against head phantom using the “tilt” position

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc



Position with front of device against flat phantom using a 15mm SPACER with hands free accessory.

Position with back of device against flat phantom using a 15mm SPACER with hands free accessory.

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Position with front of device against flat phantom using an ICE26 carry case with hands free accessory.

Position with back of device against flat phantom using an ICE26 carry case with hands free accessory.

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

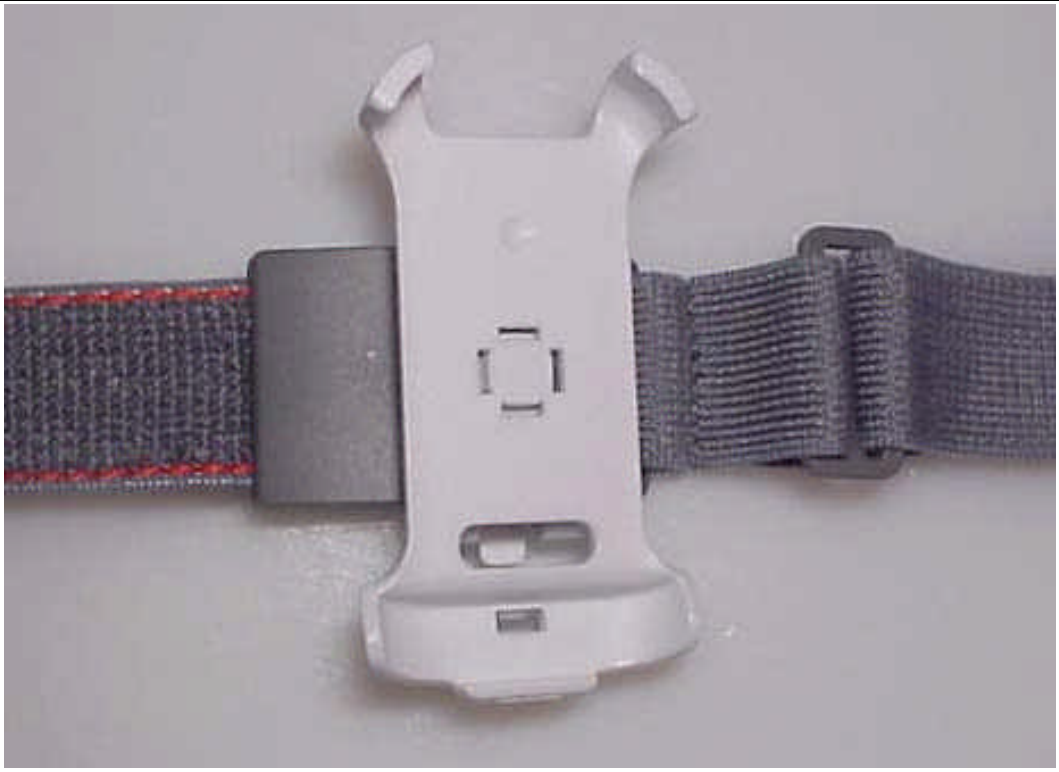
Position with back of device against flat phantom using an IAC60 carry case with hands free accessory.

Prepared (also subject responsible if other)	No.	
SEM/CV/PF/P Gerard Hayes and Rodney Dixon	REP 2006 005 W710i 02	
Approved / Checked		
SEM/CV/PF/P Gerard Hayes	A	X:\SAR Chamber\FCC reports\W710I\Final Reports\FCCW710I.doc

Accessory ICE26 front.

Accessory ICE26 back.

Accessory IAC60 top.



Accessory IAC60 front.