



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2005 008 W600i 02	
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## Exhibit 11: SAR Test Report of Portable Cellular Phone FCC ID: PY7AF052021 Model : W600i

**Date of test:** August 29 - September 4, 2005  
**Date of Report:** September 16, 2005

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

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**Test Responsible:** Gerard Hayes *Gerard James Hayes 16 SEPTEMBER 2005*  
 Consulting Engineer, Antenna/RF Development Group

**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 PY7AF052021 model W600i 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)

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This test report shall not be reproduced except in full, without written approval of the laboratory.

The results and statements contained herein relate only to the items tested. The names of individuals involved may be mentioned only in connection with the statements or results from this report.

Sony Ericsson Mobile Communications encourages all feedback, both positive and negative, on this test report.



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2005 008 W600i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\W600i\Final Reports\FCCW600i.doc

## Table of Contents

<b>1. Introduction</b>	<b>3</b>
<b>2. Description of the Device Under Test</b>	<b>3</b>
<i>2.1 Antenna description</i>	<i>3</i>
<i>2.2 Device description</i>	<i>3</i>
<b>3. Test Equipment Used</b>	<b>5</b>
<i>3.1 Dosimetric System</i>	<i>5</i>
<i>3.2 Additional Equipment</i>	<i>5</i>
<b>4. Electrical parameters of the tissue simulating liquid</b>	<b>6</b>
<b>5. System Accuracy Verification</b>	<b>8</b>
<b>6. Test Results</b>	<b>9</b>
<i>6.1 Head Adjacent Test Results</i>	<i>9</i>
<i>6.2 Body-Worn Test Results</i>	<i>14</i>
<b>References</b>	<b>17</b>
<b>Appendix 1: SAR distribution comparison for system accuracy verification</b>	<b>18</b>
<b>Appendix 2: SAR distribution plots for Phantom Head Adjacent Use</b>	<b>26</b>
<b>Appendix 3: SAR distribution plots for Body Worn Configuration</b>	<b>67</b>
<b>Appendix 4: Probe Calibration Certificate</b>	<b>88</b>
<b>Appendix 5: Measurement Uncertainty Budget</b>	<b>93</b>
<b>Appendix 6: Photographs of the device under test</b>	<b>103</b>



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2005 008 W600i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\W600i\Final Reports\FCCW600i.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 PY7AF052021 model W600i. 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

<b>Type</b>	Bent monopole	
<b>Location</b>	External plastic loop on top of phone	
<b>Dimensions</b>	Width	18.8 mm
	Length	43.6 mm
	Height	7.1 mm

### 2.2 Device description

<b>FCC ID Number / Device Model</b>	PY7AF052021 / W600i	
<b>Serial number</b>	BD3023GNBB	BD3023HCY4
<b>Transmitting Frequency Rang(s)</b>	824-849 MHz	1850-1910 MHz
<b>Mode(s) of Operation</b>	GSM GPRS/EGPRS	GSM GPRS/EGPRS
<b>Modulation Mode(s)</b>	TDMA	TDMA

<b>Transmitting Frequency Rang(s)</b>	824-849 MHz		1850-1910 MHz	
<b>GSM Mode: 1/8 Duty Cycle</b>	$f_{low}$	32.0 dBm +/- 0.2 dB	$f_{low}$	30.0 dBm /- 0.2 dB
<b>Target Value and Factory Tolerance Window for Maximum Output Power Setting</b>	$f_{mid}$	32.0 dBm /- 0.2 dB	$f_{mid}$	30.0 dBm /- 0.2 dB
	$f_{high}$	32.0 dBm /- 0.2 dB	$f_{high}$	30.0 dBm /- 0.2 dB
<b>Calibration Frequency</b> ( $f_{low}$ , $f_{mid}$ , $f_{high}$ )	$f_{high}$		$f_{mid}$	

<b>Transmitting Frequency Rang(s)</b>	824-849 MHz		1850-1910 MHz	
<b>GPRS Mode: 2/8 Duty Cycle</b>	$f_{low}$	32.0 dBm /- 0.2 dB	$f_{low}$	30.0 dBm /- 0.2 dB
<b>Target Value and Factory Tolerance Window for Maximum Output Power Setting</b>	$f_{mid}$	32.0 dBm /- 0.2 dB	$f_{mid}$	30.0 dBm /- 0.2 dB
	$f_{high}$	32.0 dBm /- 0.2 dB	$f_{high}$	30.0 dBm /- 0.2 dB
<b>Calibration Frequency</b> ( $f_{low}$ , $f_{mid}$ , $f_{high}$ )	$f_{high}$		$f_{mid}$	



REPORT

4(116)

Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2005 008 W600i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\W600i\Final Reports\FCCW600i.doc

Transmitting Frequency Rang(s)	824-849 MHz		1850-1910 MHz	
EGPRS Mode: 2/8 Duty Cycle	$f_{low}$	27 dBm /- 1.0 dB	$f_{low}$	26 dBm /- 1.0 dB
Target Value and Factory Tolerance Window for Maximum Output Power Setting	$f_{mid}$	27 dBm +/- 1.0 dB	$f_{mid}$	26 dBm /- 1.0 dB
Calibration Frequency ( $f_{low}$ , $f_{mid}$ , $f_{high}$ )	$f_{high}$	27 dBm /- 1.0 dB	$f_{high}$	26 dBm /- 1.0 dB
	$f_{mid}$		$f_{mid}$	

Production Unit or Identical Prototype (47 CFR §2.908)	Identical Prototype
Device Category	Portable
RF Exposure Limits	General Population / Uncontrolled



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Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\W600\Final Reports\FCCW600I.doc

### 3. Test Equipment Used

#### 3.1 Dosimetric System

The Sony Ericsson SAR Laboratory utilizes Dosimetric Assessment Systems (Dasy3™ v3.1d for body-worn measurements and Dasy4™ for adjacent to head measurements) manufactured by Schmid & Partner Engineering AG (SPEAG™), of Zurich Switzerland. The overall RSS uncertainty of the measurement system is ±10.72% (K=1) with an expanded uncertainty of ±21.45% (K=2) for Dasy3™ v3.1d and ±9.43% (K=1) with an expanded uncertainty of ±18.87% (K=2) for Dasy4™. The measurement uncertainty budget is given in Appendix 5 for both systems. 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	12-Nov-2005
DASY3 DAE V1	417	11-Nov-2005
E-Field Probe ETDV6	1586	26-May-2006
E-Field Probe ETDV6	1587	26-May-2006
Dipole Validation Kit, DV835V2	438	24-May-2006
Dipole Validation Kit, DV900V2	035	24-May-2006
Dipole Validation Kit, DV1800V2	238	11-May-2006
Dipole Validation Kit, DV1900V2	536	19-May-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 8, 2005
Power Meter 437B	3125U13729	January 6, 2006
Power Sensor - 8482H	MY41090240	April 29, 2006
Power Sensor - 8482H	MY41090239	April 29, 2006
Dielectric Probe Kit HP85070B	US33020390	July 4, 2006
Digital Thermometer 61220-601 And Probe (61220-604)	350078	November 5, 2005
Digital Hygrometer/ Thermometer	21242911	November 3, 2005
HP RF Amplifier 8347A	3307A1069	May 4, 2006



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2005 008 W600i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\W600i\Final Reports\FCCW600i.doc

#### 4. Electrical parameters of the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity,  $\epsilon_r$ , and the conductivity,  $\sigma$ , 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  $\rho=1\text{g/cm}^3$  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 22.2-24.1°C, the relative humidity was 45.4%- 53.9 %, and the liquid depth above the ear reference points was more than 15.0 cm for all the cases. It is seen that the measured parameters are satisfactory for compliance testing.

f (MHz)	Tissue type	Limits / Measured	Dielectric Parameters		
			$\epsilon_r$	$\sigma$ (S/m)	Simulated Tissue Temp (°C)
835	Head	Measured, 30-Aug-05	41.17	.895	22.5
		<b>Recommended Limits</b>	<b>41.50</b>	<b>0.90</b>	<b>20-25</b>
	Body	Measured, 29-Aug-05	53.16	.969	22.7
		<b>Recommended Limits</b>	<b>55.20</b>	<b>0.97</b>	<b>20-25</b>
	Body	Measured, 04-Sept-05	54.9	.984	21.9
		<b>Recommended Limits</b>	<b>55.20</b>	<b>0.97</b>	<b>20-25</b>
Head	Measured, 31-Aug-05	40.29	.873	22.7	
	<b>Recommended Limits</b>	<b>41.50</b>	<b>0.90</b>	<b>20-25</b>	
1900	Head	Measured, 01-Sept-05	38.36	1.442	22.2
		<b>Recommended Limits</b>	<b>40.00</b>	<b>1.40</b>	<b>20-25</b>
	Body	Measured, 02-Sept-05	51.11	1.529	22.2
		<b>Recommended Limits</b>	<b>53.30</b>	<b>1.52</b>	<b>20-25</b>
	Head	Measured, 03-Sept-05	38.47	1.453	22.3
		<b>Recommended Limits</b>	<b>40.00</b>	<b>1.40</b>	<b>20-25</b>



REPORT

7(116)

Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2005 008 W600i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\W600\Final Reports\FCCW600I.doc

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

Ingredient	800 MHz Head	800MHz Body	1900 MHz Head	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%	--	--



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Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\W600i\Final Reports\FCCW600i.doc

### 5. System Accuracy Verification

A system accuracy verification of the DASY3 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 and/or 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 22.1-22.9 °C, the relative humidity was in the range 41.8 – 50.7 % 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 0.000300 W/kg, which is below the recommended limit in [1].

f (MHz)	Tissue Type	Description	SAR (W/kg) 1g / 10g		Dielectric Parameters		Tissue Temp (°C)
			e <sub>r</sub>	s (S/m)			
835	Head	Measured. 30-Aug-05	8.8	5.8	41.17	.895	22.5
		<b>Recommended Limits</b>	<b>9.50</b>	<b>6.20</b>	<b>41.50</b>	<b>0.90</b>	<b>20-25</b>
	Body	Measured. 29-Aug-05	9.2	5.9	53.16	.969	22.7
		<b>Recommended Limits</b>	<b>9.90</b>	<b>6.46</b>	<b>55.20</b>	<b>0.97</b>	<b>20-25</b>
	Body	Measured. 04-Sept-05	9.6	6.2	54.9	.984	21.9
		<b>Recommended Limits</b>	<b>9.90</b>	<b>6.46</b>	<b>55.20</b>	<b>0.97</b>	<b>20-25</b>
	Head	Measured. 31-Aug-05	8.5	5.6	40.29	.873	22.7
		<b>Recommended Limits</b>	<b>9.50</b>	<b>6.20</b>	<b>41.50</b>	<b>0.90</b>	<b>20-25</b>
1900	Head	Measured. 01-Sept-05	42.3	22.3	38.36	1.442	22.2
		<b>Recommended Limits</b>	<b>39.70</b>	<b>20.50</b>	<b>40.00</b>	<b>1.40</b>	<b>20-25</b>
	Body	Measured. 02-Sept-05	43.3	22.4	51.11	1.529	22.2
		<b>Recommended Limits</b>	<b>40.50</b>	<b>20.89</b>	<b>53.30</b>	<b>1.52</b>	<b>20-25</b>
	Head	Measured. 03-Sept-05	41.4	21.7	38.47	1.453	22.3
		<b>Recommended Limits</b>	<b>39.70</b>	<b>20.50</b>	<b>40.00</b>	<b>1.40</b>	<b>20-25</b>





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2005 008 W600i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\W600i\Final Reports\FCCW600i.doc

## 6. Test Results

For head measurements (with a 1/8 GSM duty cycle), the sample was operated using test software that allows the control of the transmitter. For body measurements (E-GPRS, 2/8 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 DASY 3.1d and/or 4.5 SAR measurement systems.

The Cellular Phone FCC ID PY7AF052021 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 through 4 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.

The humidity and ambient temperature of the test facility were in the ranges 40.0 – 51.7 % and 21.6 - 23.6°C, respectively. The SAR measurements were performed using the SAM phantoms listed in section 3.1.

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	
<b>800 GSM</b>	.593	0.434	Right head, cheek/touch position, 849 MHz BST-37 battery, with Bluetooth on, open
<b>1900 GSM</b>	1.26	0.719	Left head, cheek/touch position, 1910 MHz BST-37 battery, closed



Prepared (also subject responsible if other) <b>SEM/CV/PF/P Gerard Hayes and Rodney Dixon</b>	No. <b>REP 2005 008 W600i 02</b>
Approved <b>SEM/CV/PF/P Gerard Hayes</b>	Checked <b>A</b>
X:\SAR Chamber\FCC reports\W600i\Final Reports\FCCW600i.doc	

f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7AF052021 with Standard Battery BST-37						
			Left Head (Cheek / Touch Position) Closed position						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	128 / 824	31.9	0.556	0.400	-0.11	0.556	0.400	23.6	23.1
	189 / 837	32.0	0.508	0.365	0.01	0.508	0.365		
	<b>251 / 849</b>	<b>32.2</b>	<b>0.584</b>	<b>0.419</b>	<b>0.02</b>	<b>0.584</b>	<b>0.419</b>		
1900 GSM	512 / 1850	29.8	0.752	0.441	0.20	0.752	0.441	22.5	22.2
	660/1880	30.2	0.874	0.508	-0.05	0.874	0.508		
	<b>810/1910</b>	<b>30.0</b>	<b>1.030</b>	<b>0.588</b>	<b>-0.08</b>	<b>1.030</b>	<b>0.588</b>		
f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7AF052021 with Standard Battery BST-37						
			Left Head (15° Tilt Position) Closed position						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	128 / 824	31.9	0.392	0.272	0.03	0.392	0.272	22.8	22.5
	189 / 837	32.0	0.359	0.248	0.01	0.359	0.248		
	<b>251 / 849</b>	<b>32.2</b>	<b>0.417</b>	<b>0.288</b>	<b>-0.01</b>	<b>0.417</b>	<b>0.288</b>		
1900 GSM	512 / 1850	29.8	0.898	0.520	0.02	0.898	0.520	22.3	21.1
	660/1880	30.2	1.090	0.628	0.01	1.090	0.628		
	<b>810/1910</b>	<b>30.0</b>	<b>1.260</b>	<b>0.719</b>	<b>-0.08</b>	<b>1.260</b>	<b>0.719</b>		
Bluetooth on	<b>810/1910</b>	<b>30.0</b>	<b>1.070</b>	<b>0.610</b>	<b>-0.09</b>	<b>1.070</b>	<b>0.061</b>	22.4	20.6

**Table 1: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at maximum output power with Standard Battery BST-37. Measured against the left head in the closed position.**



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Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\W600i\Final Reports\FCCW600i.doc

F (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7AF052021 with Standard Battery BST-37						
			Right Head (Cheek / Touch Position) Closed position						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	128 / 824	31.9	0.532	0.388	0.00	0.532	0.388	23.5	22.9
	189 / 837	32.0	0.506	0.367	0.07	0.506	0.367		
	<b>251 / 849</b>	<b>32.2</b>	<b>0.591</b>	<b>0.430</b>	<b>-0.02</b>	<b>0.591</b>	<b>0.430</b>		
Bluetooth on	<b>251 / 849</b>	<b>32.2</b>	<b>0.590</b>	<b>0.429</b>	<b>0.01</b>	<b>0.590</b>	<b>0.429</b>	<b>22.9</b>	<b>23.2</b>
1900 GSM	512 / 1850	29.8	0.696	0.420	0.04	0.696	0.420	22.5	20.7
	660/1880	30.2	0.824	0.495	-0.02	0.824	0.495		
	<b>810/1910</b>	<b>30.0</b>	<b>0.970</b>	<b>0.578</b>	<b>-0.06</b>	<b>0.970</b>	<b>0.578</b>		
f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7AF052021 with Standard Battery BST-37						
			Right Head (15° Tilt Position) Closed position						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	128 / 824	31.9	0.354	0.251	0.02	0.354	0.251	23.4	22.7
	189 / 837	32.0	0.330	0.234	-0.02	0.330	0.234		
	<b>251 / 849</b>	<b>32.2</b>	<b>0.391</b>	<b>0.277</b>	<b>0.01</b>	<b>0.391</b>	<b>0.277</b>		
1900 GSM	512 / 1850	29.8	0.882	0.508	0.00	0.882	0.508	22.3	20.8
	660/1880	30.2	1.040	0.595	0.01	1.040	0.595		
	<b>810/1910</b>	<b>30.0</b>	<b>1.220</b>	<b>0.693</b>	<b>-0.07</b>	<b>1.220</b>	<b>0.693</b>		

**Table 2: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at maximum output power with Standard Battery BST-37. Measured against the right head in the closed position.**



Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2005 008 W600i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\W600i\Final Reports\FCCW600i.doc

F (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7AF052021 with Standard Battery BST-37						
			Left Head (Cheek / Touch Position) Open position						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	128 / 824	31.9	0.566	0.409	-0.11	0.566	0.409	22.8	22.7
	189 / 837	32.0	0.545	0.392	-0.02	0.545	0.392		
	<b>251 / 849</b>	<b>32.2</b>	<b>0.580</b>	<b>0.420</b>	<b>0.03</b>	<b>0.580</b>	<b>0.420</b>		
1900 GSM	512 / 1850	29.8	0.360	0.232	0.06	0.360	0.232	22.2	22.3
	660/1880	30.2	0.367	0.238	-0.02	0.367	0.238		
	<b>810/1910</b>	<b>30.0</b>	<b>0.368</b>	<b>0.237</b>	<b>0.12</b>	<b>0.368</b>	<b>0.237</b>		
f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7AF052021 with Standard Battery BST-37						
			Left Head (15° Tilt Position) Open position						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	<b>128 / 824</b>	<b>31.9</b>	<b>0.282</b>	<b>0.208</b>	<b>-0.01</b>	<b>0.282</b>	<b>0.208</b>	23.1	22.8
	189 / 837	32.0	0.259	0.190	0.02	0.259	0.190		
	251 / 849	32.2	0.259	0.190	-0.02	0.259	0.190		
1900 GSM	<b>512 / 1850</b>	<b>29.8</b>	<b>0.267</b>	<b>0.161</b>	<b>0.04</b>	<b>0.267</b>	<b>0.161</b>	21.8	21.4
	660/1880	30.2	0.240	0.145	0.04	0.240	0.145		
	810/1910	30.0	0.257	0.156	0.04	0.257	0.156		

**Table 3: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at maximum output power with Standard Battery BST-37. Measured against the left head in the open position.**



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F (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7AF052021 with Standard Battery BST-37						
			Right Head (Cheek / Touch Position) Open position						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	<b>128 / 824</b>	<b>31.9</b>	<b>0.592</b>	<b>0.437</b>	<b>-0.12</b>	<b>0.592</b>	<b>0.437</b>	23.4	23.1
	189 / 837	32.0	0.568	0.419	0.04	0.568	0.419		
	251 / 849	32.2	0.59	0.436	-0.06	0.59	0.436		
Bluetooth on	<b>251 / 849</b>	<b>32.18</b>	<b>0.593</b>	<b>0.434</b>	<b>-0.07</b>	<b>0.593</b>	<b>0.434</b>	23.6	23.3
1900 GSM	512 / 1850	29.8	0.506	0.312	0.04	0.506	0.312	22.2	20.7
	<b>660/1880</b>	<b>30.2</b>	<b>0.524</b>	<b>0.322</b>	<b>-0.04</b>	<b>0.524</b>	<b>0.322</b>		
	810/1910	30.0	0.474	0.289	-0.02	0.474	0.289		
Bluetooth On	<b>660/1880</b>	<b>30.2</b>	<b>0.447</b>	<b>0.280</b>	<b>-0.02</b>	<b>0.447</b>	<b>0.280</b>	21.6	20.7
f (MHz)	Channel/ frequency	Conducted Output Power (dBm)  GSM 1:8 Duty Cycle	FCC ID PY7AF052021 with Standard Battery BST-37						
			Right Head (15° Tilt Position) Open position						
			Measured (W/kg) 1g / 10g		Drift (dB)	Extrapolated (W/kg) 1g / 10g		Ambient Temp (°C)	Simulate Temp (°C)
800 GSM	<b>128 / 824</b>	<b>31.9</b>	<b>0.311</b>	<b>0.227</b>	<b>0.01</b>	<b>0.311</b>	<b>0.227</b>	23.5	23
	189 / 837	32.0	0.294	0.214	0.02	0.294	0.214		
	251 / 849	32.2	0.289	0.210	0.01	0.289	0.210		
1900 GSM	<b>512 / 1850</b>	<b>29.8</b>	<b>0.216</b>	<b>0.136</b>	<b>0.01</b>	<b>0.216</b>	<b>0.136</b>	21.6	21
	660/1880	30.2	0.182	0.114	-0.05	0.182	0.114		
	810/1910	30.0	0.190	0.118	-0.03	0.190	0.118		

**Table 4: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at maximum output power with Standard Battery BST-37. Measured against the right head in the open position.**



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**6.2 Body-Worn Test Results**

The SAR results shown in Tables 5 and 6 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. The humidity and ambient temperature of the test facility were in the ranges 40.7 – 50.1 % and 21.9-24.1°C, respectively.

A “flat” phantom was used for the body-worn tests. This “flat” phantom corresponds to the flat portion of the SAM phantom. The tissue stimulant depth above the ear canal was verified to be above 15.0 cm in all the measurements. 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
- ICE30 body worn 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	
<b>800 GSM</b>	0.780	0.537	ICE30 Carry Accessory, back of phone facing body, 849 MHz, 2:8 Duty Cycle, BST-37 battery
<b>1900 GSM</b>	0.629	0.370	15mm SPACER Carry Accessory, back of phone facing body, 1910MHz, 2:8 Duty Cycle BST-37 battery, Bluetooth on



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f (MHz)	Operating Condition	Channel/ frequency	Conducted Output Power (dBm)	FCC ID PY7AF052021 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								
<b>Back of phone facing body</b>										
800 GSM	2:8 Duty Cycle	<b>128 / 824</b>	<b>31.9</b>	<b>0.753</b>	<b>0.520</b>	<b>0.04</b>	<b>0.753</b>	<b>0.520</b>	22.2	21.9
		189 / 837	32.0	0.638	0.439	0.02	0.638	0.439		
		251 / 849	32.2	0.671	0.459	0.02	0.671	0.459		
1900 GSM	2:8 Duty Cycle	512 / 1850	29.8	0.433	0.259	-0.01	0.433	0.259	22.1	21.5
		660/1880	30.2	0.508	0.300	0.02	0.508	0.300		
		<b>810/1910</b>	<b>30.0</b>	<b>0.580</b>	<b>0.340</b>	<b>-0.03</b>	<b>0.580</b>	<b>0.340</b>		
	Bluetooth On	<b>810 / 1910</b>	<b>30.0</b>	<b>0.629</b>	<b>0.370</b>	<b>-0.01</b>	<b>0.629</b>	<b>0.370</b>	22.3	21.3
1:8 Duty Cycle	810 / 1910	30.0	0.301	0.178	-0.06	0.301	0.178			
<b>Front of phone facing body</b>										
800 GSM	2:8 Duty Cycle	<b>128 / 824</b>	<b>31.9</b>	<b>0.443</b>	<b>0.316</b>	<b>0.07</b>	<b>0.443</b>	<b>0.316</b>	22.2	21.9
		189 / 837	32.0	0.353	0.253	0.00	0.353	0.253		
		251 / 849	32.2	0.366	0.259	-0.09	0.366	0.259		
1900 GSM	2:8 Duty Cycle	512 / 1850	29.8	0.373	0.241	-0.03	0.373	0.241	22.1	22.2
		660/1880	30.2	0.381	0.232	0.01	0.381	0.232		
		<b>810/1910</b>	<b>30.0</b>	<b>0.416</b>	<b>0.253</b>	<b>-0.04</b>	<b>0.416</b>	<b>0.253</b>		

**Table 5: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at maximum output power with Standard Battery BST-37. Measured against the body with a 15mm Spacer.**



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f (MHz)	Operating Condition	Channel/ frequency	Condu cted Output Power (dBm)	FCC ID PY7AF052021 with Standard Battery BST-37						
				Body Worn			Carry Accessory: ICE30 Carry Case			
				Back of phone facing body						
Measured (W/kg) 1g / 10g	Drift (dB)	Extrapolated (W/kg) 1g / 10g								
<b>Back of phone facing body</b>										
800 GSM	2:8 Duty Cycle	128 / 824	31.9	0.737	0.514	0.00	0.737	0.514	22.6	21.7
		189 / 837	32.0	0.665	0.462	-0.01	0.665	0.462		
		<b>251 / 849</b>	<b>32.2</b>	<b>0.780</b>	<b>0.537</b>	<b>-0.01</b>	<b>0.780</b>	<b>0.537</b>		
	Bluetooth On	<b>251 / 849</b>	<b>32.2</b>	<b>0.766</b>	<b>0.528</b>	<b>0.07</b>	<b>0.766</b>	<b>0.528</b>	22.7	21.9
	1:8 Duty Cycle	251 / 849	32.2	0.357	0.250	0.01	0.357	0.250		
1900 GSM	2:8 Duty Cycle	512 / 1850	29.8	0.403	0.249	0.00	0.403	0.249	22.3	21.1
		660/1880	30.2	0.409	0.251	-0.03	0.409	0.251		
		<b>810/1910</b>	<b>30.0</b>	<b>0.509</b>	<b>0.311</b>	<b>-0.07</b>	<b>0.509</b>	<b>0.311</b>		
<b>Front of phone facing body</b>										
800 GSM	2:8 Duty Cycle	<b>128 / 824</b>	<b>31.9</b>	<b>0.468</b>	<b>0.335</b>	<b>0.00</b>	<b>0.468</b>	<b>0.335</b>	22.8	21.8
		189 / 837	32.0	0.394	0.280	0.08	0.394	0.280		
		251 / 849	32.2	0.433	0.308	0.01	0.433	0.308		
1900 GSM	2:8 Duty Cycle	512 / 1850	29.8	0.359	0.234	-0.04	0.359	0.234	22.3	21.2
		660/1880	30.2	0.369	0.228	-0.04	0.369	0.228		
		<b>810/1910</b>	<b>30.0</b>	<b>0.436</b>	<b>0.267</b>	<b>-0.10</b>	<b>0.436</b>	<b>0.267</b>		

**Table 6: SAR measurement results for the portable cellular telephone FCC ID PY7AF052021 model W600i at maximum output power with Standard Battery BST-37. Measured against the body with carry accessory ICE30.**





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**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.



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**Appendix 1**

**SAR distribution comparison for the system accuracy verification**



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**835 MHz SAR Distribution of Validation Dipole Antenna  
System Performance Check on August 30, 2005 (Using head tissue).**

**Validation\_835Head\_438\_1251\_30Aug05\_T01**

File Name: [Validation\\_835Head\\_438\\_1251\\_30Aug05\\_T01.da4](#)

Phantom: SAM with CRP (Low Band Head) Phantom section: Flat Section

Probe: ET3DV6 - SN1586ConvF(6.58, 6.58, 6.58) Duty Cycle: 1:1 Frequency: 835 MHz

Medium parameters used: f = 835 MHz; s = 0.896 mho/m;  $\epsilon_r = 41.2$ ;  $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DAS4 (High Precision Assessment)

**Dipole at 10 mm/Area Scan (61x61x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.959 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 = 0.013 dB

Peak SAR (extrapolated) = 1.35 W/kg

**SAR(1 g) = 0.902 mW/g; SAR(10 g) = 0.588 mW/g**

Maximum value of SAR (measured) = 0.973 mW/g

**Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.8 V/m; Power Drift = 0.013 dB

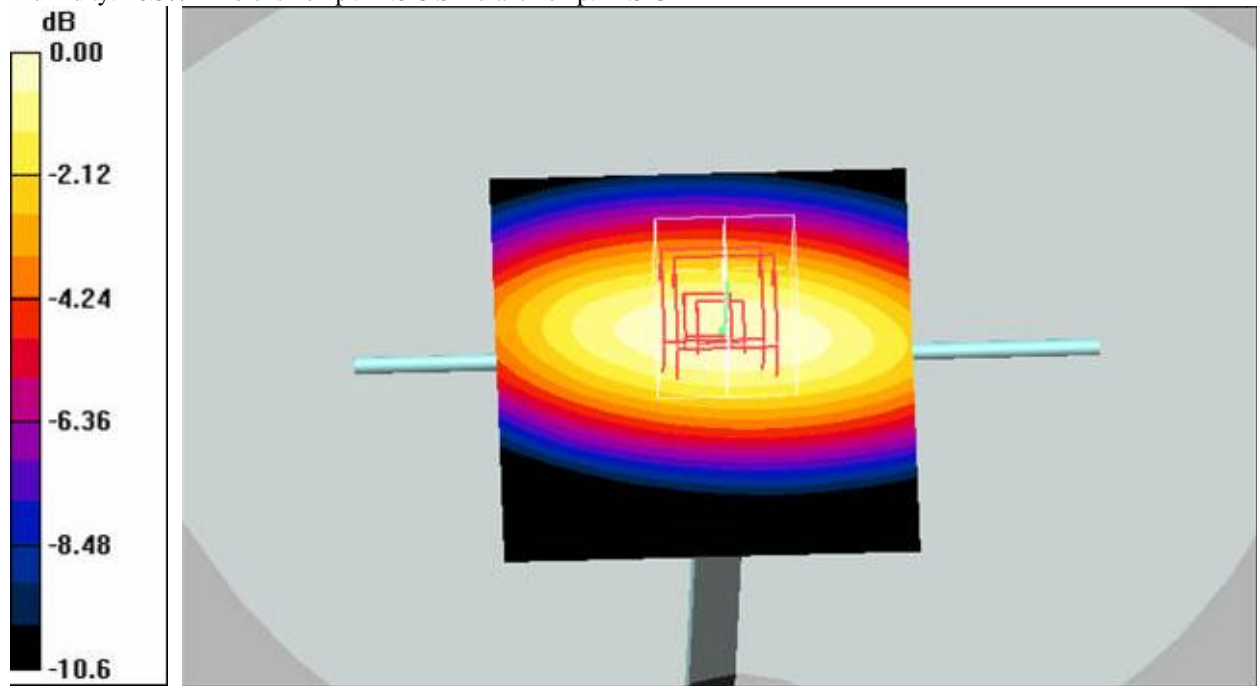
Peak SAR (extrapolated) = 1.32 W/kg

**SAR(1 g) = 0.885 mW/g; SAR(10 g) = 0.578 mW/g**

Maximum value of SAR (measured) = 0.948 mW/g

Procedure Notes: Pin: before 101.1mW / after 101.2mW

Humidity: 46.5% Ambient Temp: 22.8 C Simulant Temp: 22.5 C



0 dB = 0.948mW/g



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**835 MHz SAR Distribution of Validation Dipole Antenna  
System Performance Check on August 31, 2005 (Using head tissue).**

**Validation\_835Head\_438\_1251\_31Aug05\_T01**

File Name: [Validation\\_835Head\\_438\\_1251\\_31Aug05\\_T01.da4](#)

Phantom: SAM with CRP (Low Band Head) Phantom section: Flat Section

Probe: ET3DV6 - SN1586ConvF(6.58, 6.58, 6.58) Duty Cycle: 1:1 Frequency: 835 MHz

Medium parameters used: f = 835 MHz; s = 0.873 mho/m;  $\epsilon_r = 40.3$ ;  $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASy4 (High Precision Assessment)

**Dipole at 10 mm/Area Scan (61x61x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.934 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 = 0.01 dB

Peak SAR (extrapolated) = 1.28 W/kg

**SAR(1 g) = 0.868 mW/g; SAR(10 g) = 0.568 mW/g**

Maximum value of SAR (measured) = 0.936 mW/g

**Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.8 V/m; Power Drift = 0.01 dB

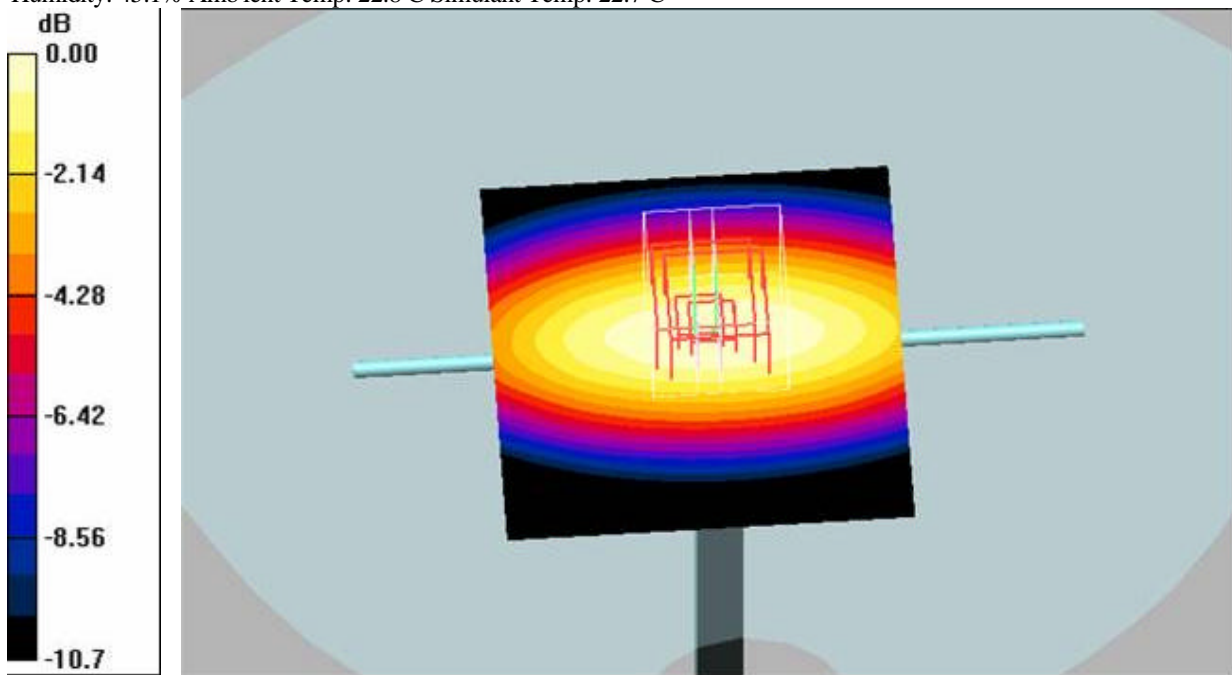
Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.856 mW/g; SAR(10 g) = 0.562 mW/g**

Maximum value of SAR (measured) = 0.910 mW/g

Procedure Notes: Pin: before 101.3mW / after 101.2mW

Humidity: 45.1% Ambient Temp: 22.8 C Simulant Temp: 22.7 C

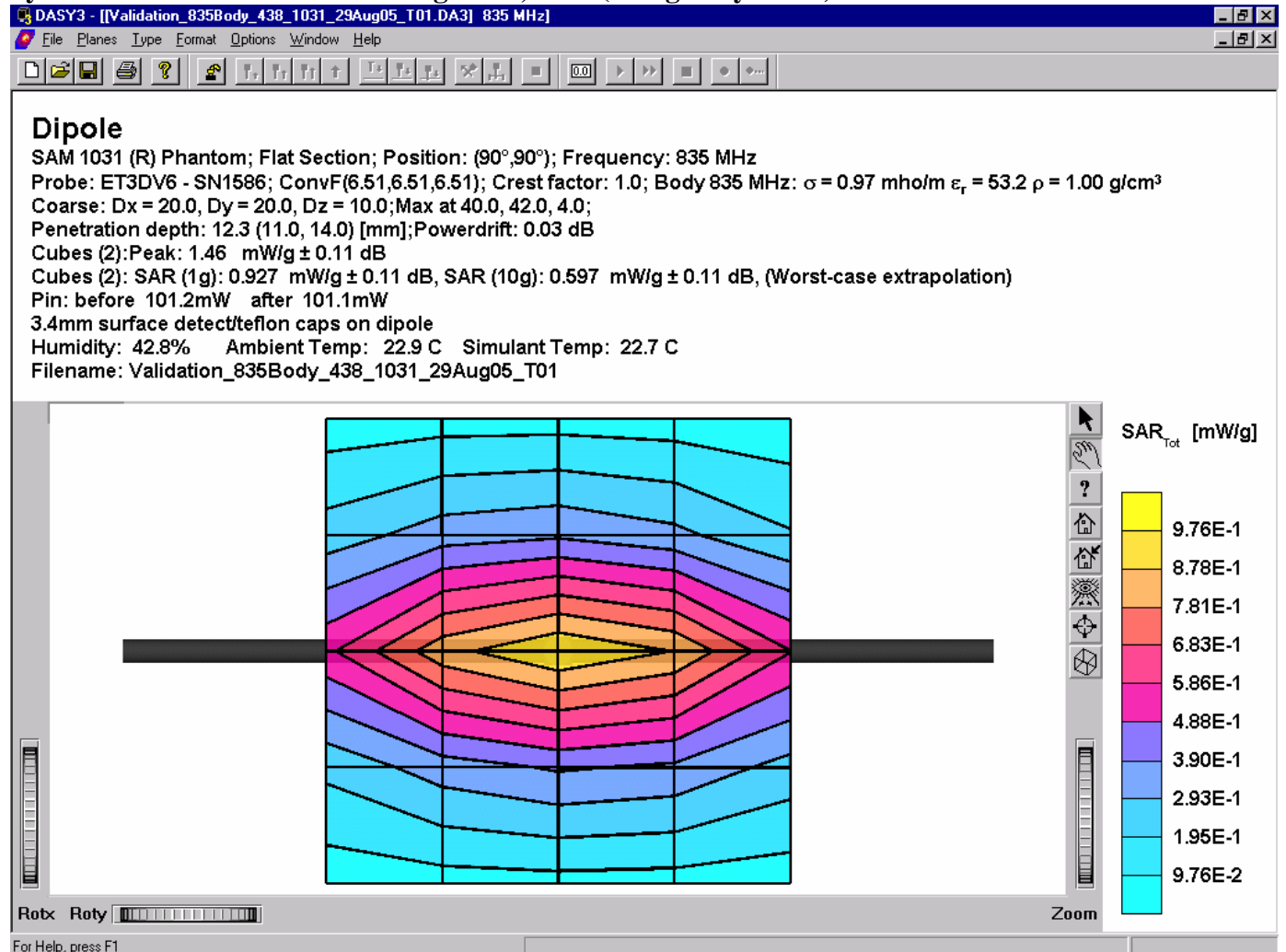


0 dB = 0.910mW/g



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Approved SEM/CV/PF/P Gerard Hayes	Checked A X:\SAR Chamber\FCC reports\W600i\Final Reports\FCCW600i.doc

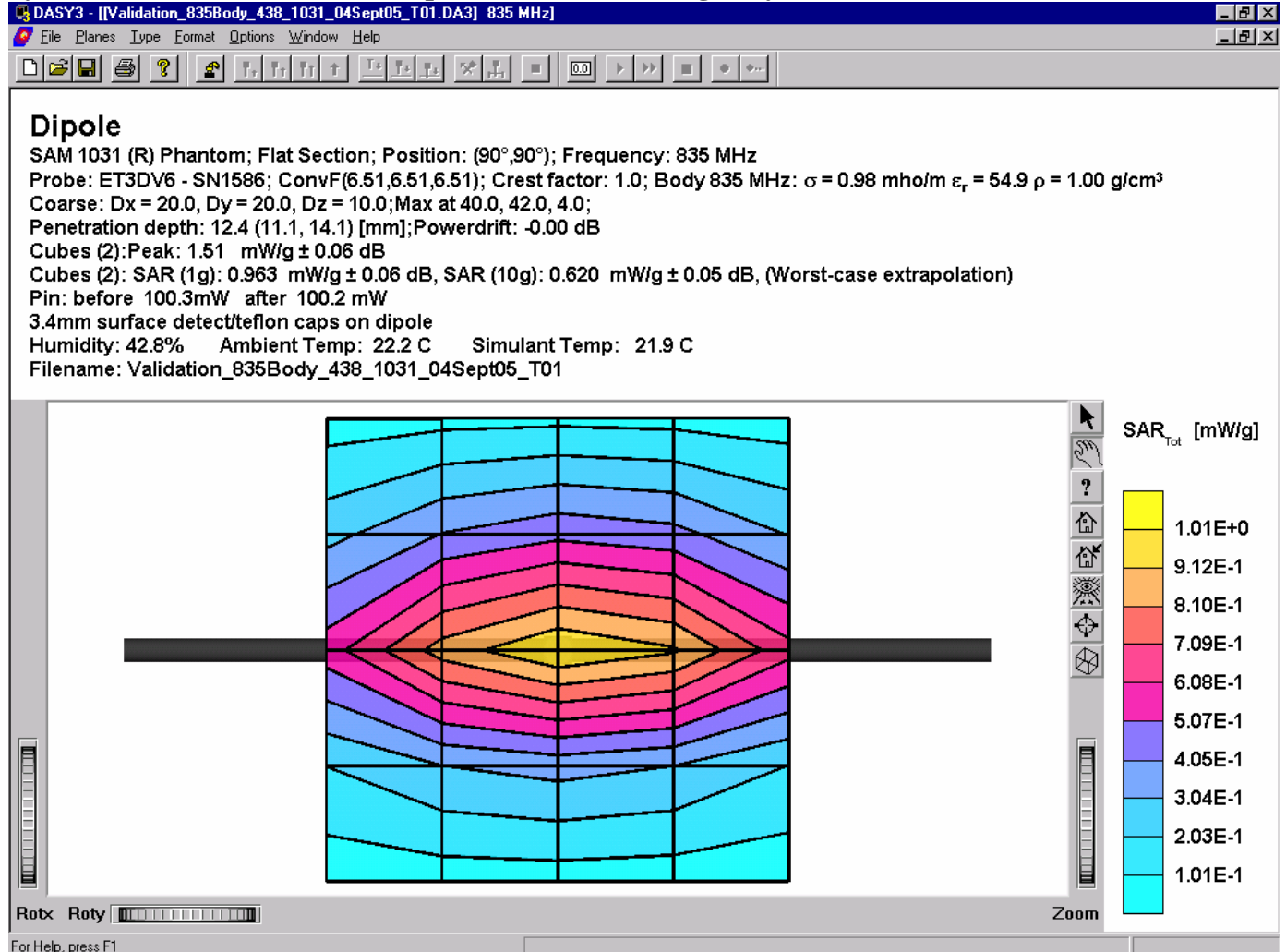
**835 MHz SAR Distribution of Validation Dipole Antenna  
System Performance Check on August 29, 2005 (Using body tissue).**





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2005 008 W600i 02	
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**835 MHz SAR Distribution of Validation Dipole Antenna  
System Performance Check on September 4, 2005 (Using body tissue).**





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2005 008 W600i 02	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\W600i\Final Reports\FCCW600i.doc

1900 MHz SAR Distribution of Validation Dipole Antenna  
**System Performance Check on September 1, 2005 (Using head tissue).**

**Validation\_1900Head\_536\_1335\_01Sept05\_T01**

File Name: [Validation\\_1900Head\\_536\\_1335\\_01Sept05\\_T01.da4](#)

Phantom: SAM with CRP (High Band Head) Phantom section: Flat Section

Probe: ET3DV6 - SN1587ConvF(5.05, 5.05, 5.05) Duty Cycle: 1:1 Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; s = 1.44 mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASy4 (High Precision Assessment)

**Dipole at 10 mm/Area Scan (61x61x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.39 mW/g

**Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.0 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 7.52 W/kg

**SAR(1 g) = 4.26 mW/g; SAR(10 g) = 2.24 mW/g**

Maximum value of SAR (measured) = 4.84 mW/g

**Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.0 V/m; Power Drift = 0.040 dB

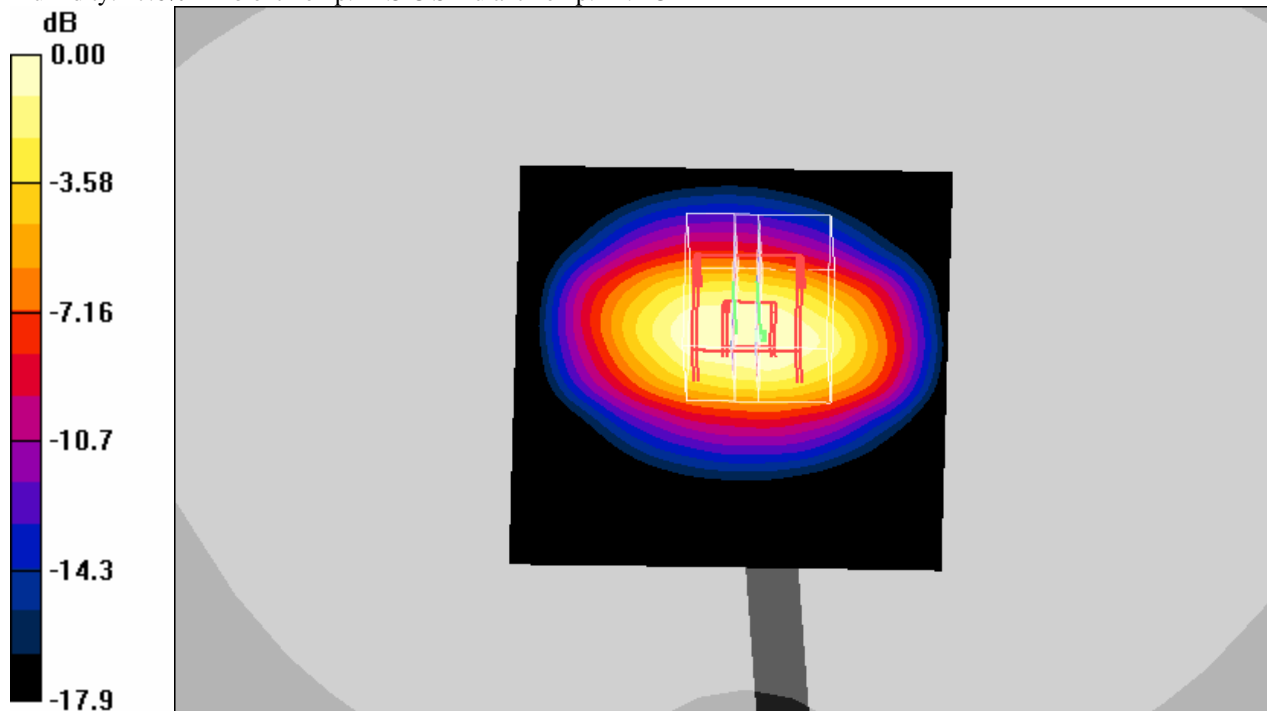
Peak SAR (extrapolated) = 7.40 W/kg

**SAR(1 g) = 4.22 mW/g; SAR(10 g) = 2.22 mW/g**

Maximum value of SAR (measured) = 4.76 mW/g

Procedure Notes: Pin: before 100.2 mW / after 100.1 mW

Humidity: 47.6% Ambient Temp: 22.5 C Simulant Temp: 22.2 C



0 dB = 4.76mW/g



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1900 MHz SAR Distribution of Validation Dipole Antenna  
**System Performance Check on September 3, 2005 (Using head tissue).**

**Validation\_1900Head\_536\_1335\_03Sept05\_T01**

File Name: [Validation\\_1900Head\\_536\\_1335\\_03Sept05\\_T01.da4](#)

Phantom: SAM with CRP (High Band Head) Phantom section: Flat Section

Probe: ET3DV6 - SN1587ConvF(5.05, 5.05, 5.05)Duty Cycle: 1:1Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; s = 1.45 mho/m;  $\epsilon_r = 38.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASy4 (High Precision Assessment)

**Dipole at 10 mm/Area Scan (61x61x1):**

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 5.16 mW/g

**Dipole at 10 mm/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.5 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 7.29 W/kg

**SAR(1 g) = 4.14 mW/g; SAR(10 g) = 2.17 mW/g**

Maximum value of SAR (measured) = 4.66 mW/g

**Dipole at 10 mm/Zoom Scan 2 (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.5 V/m; Power Drift = 0.035 dB

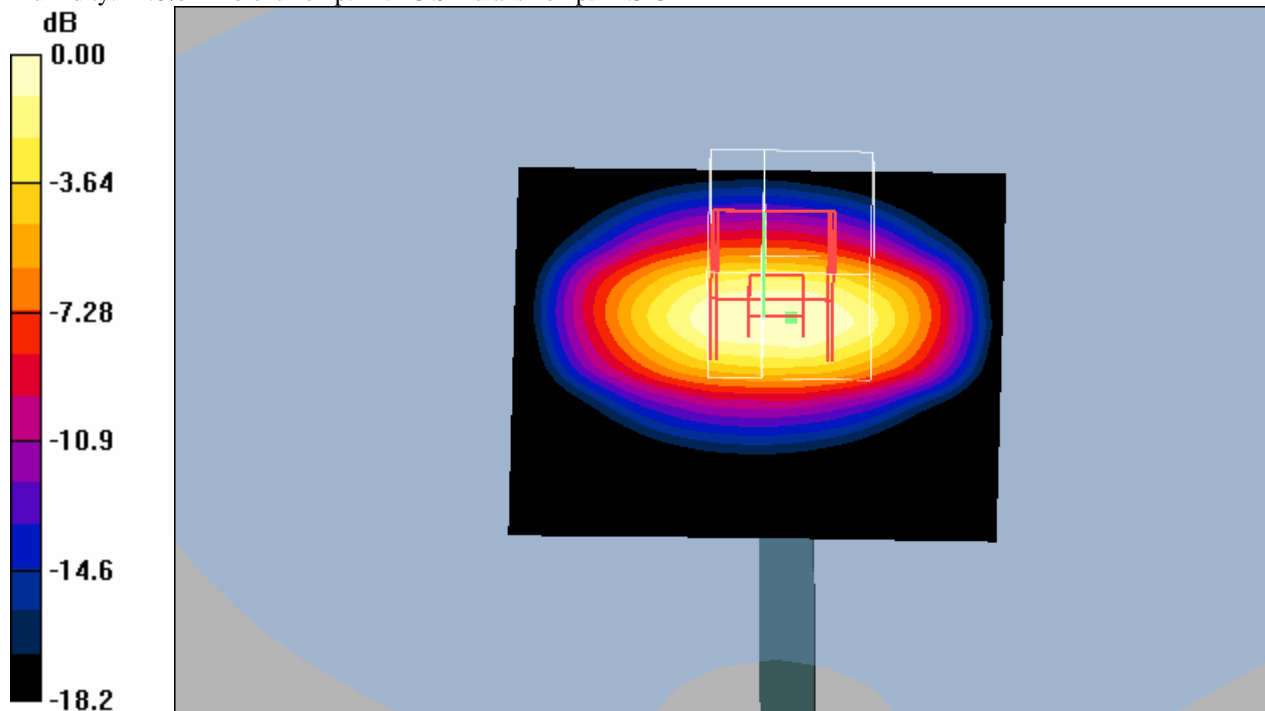
Peak SAR (extrapolated) = 7.33 W/kg

**SAR(1 g) = 4.15 mW/g; SAR(10 g) = 2.17 mW/g**

Maximum value of SAR (measured) = 4.68 mW/g

Procedure Notes: Pin: before 100.1 mW / after 100.3 mW

Humidity: 41.8% Ambient Temp: 22.2 C Simulant Temp: 22.3 C



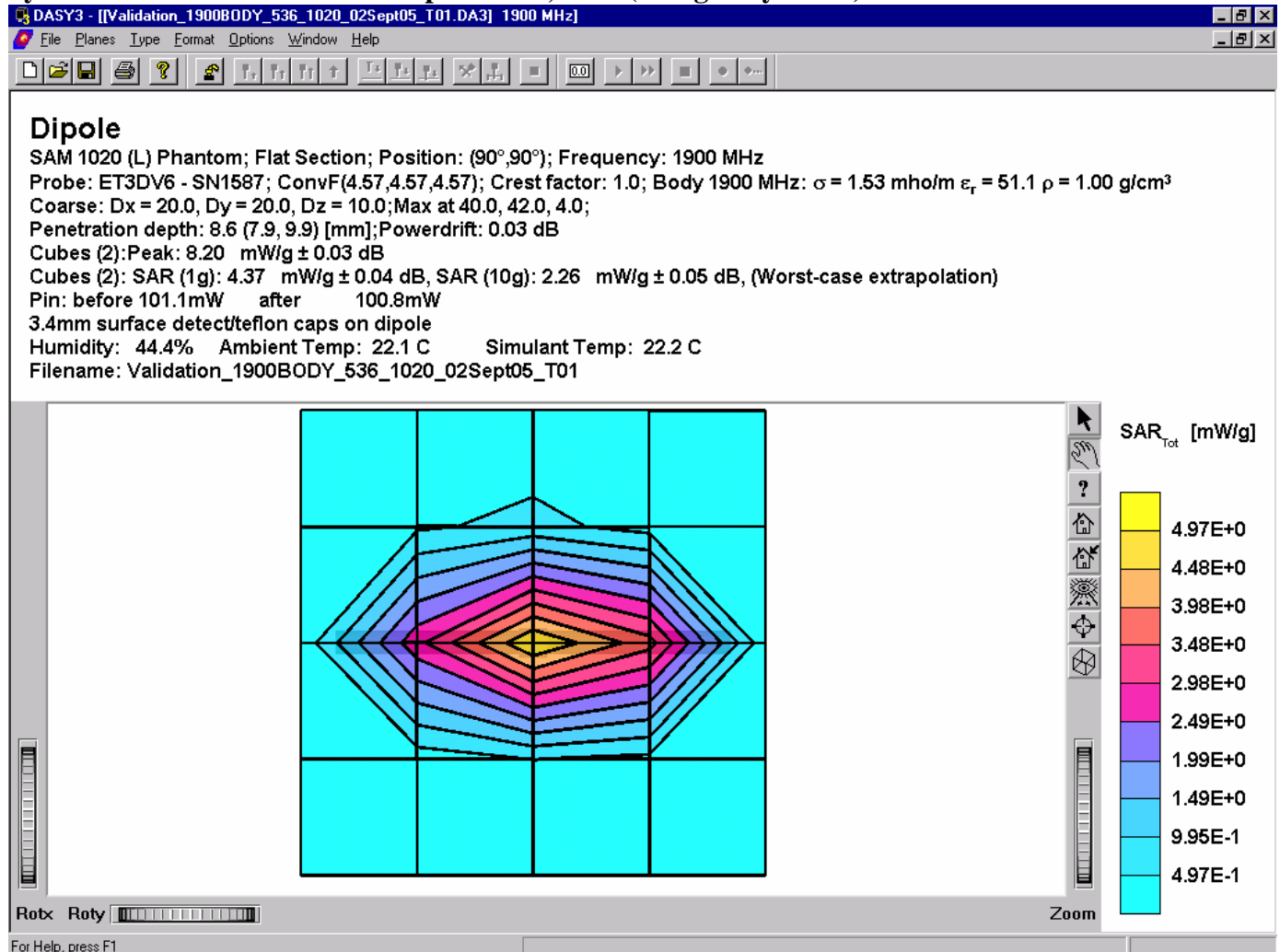
0 dB = 4.68mW/g





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**1900 MHz SAR Distribution of Validation Dipole Antenna  
System Performance Check on September 2, 2005 (Using body tissue).**





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## Appendix 2

### SAR distribution plots for Phantom Head Adjacent Use



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**800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR**

**Model: W600i SN: BD3023GNBB with Standard Battery: BST-37**

**Right Side, Cheek Position. DUT in closed position.**

Date/Time: 8/30/2005 12:46:03 PM Date/Time: 8/30/2005 12:51:38 PM

File Name: [30Aug05\\_W600i\\_GSM850\\_GNBB\\_closed\\_RC01.da4](#)

**DUT: W600i closed**

Program Notes: Battery BST-37 Humidity: 46.1% Ambient Temp: 23.5C Simulant Temp: 22.9C

Communication System: GSM 850; Frequency: 849 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 849 MHz; s = 0.911 mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Unnamed procedure 3/Area Scan (51x81x1):**

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.629 mW/g

**Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.6 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 0.747 W/kg

**SAR(1 g) = 0.591 mW/g; SAR(10 g) = 0.430 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.625 mW/g

**Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

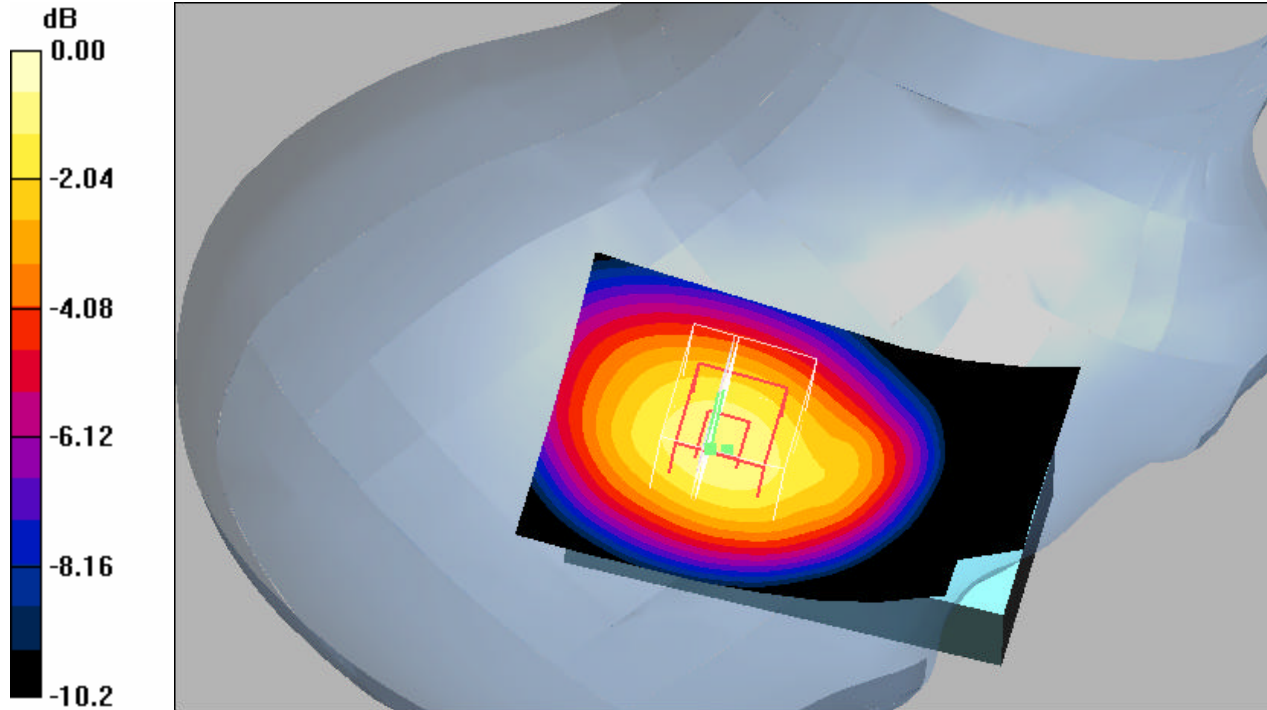
Reference Value = 23.6 V/m; Power Drift = -0.021 dB

[Info: Interpolated medium parameters used for SAR evaluation!](#)

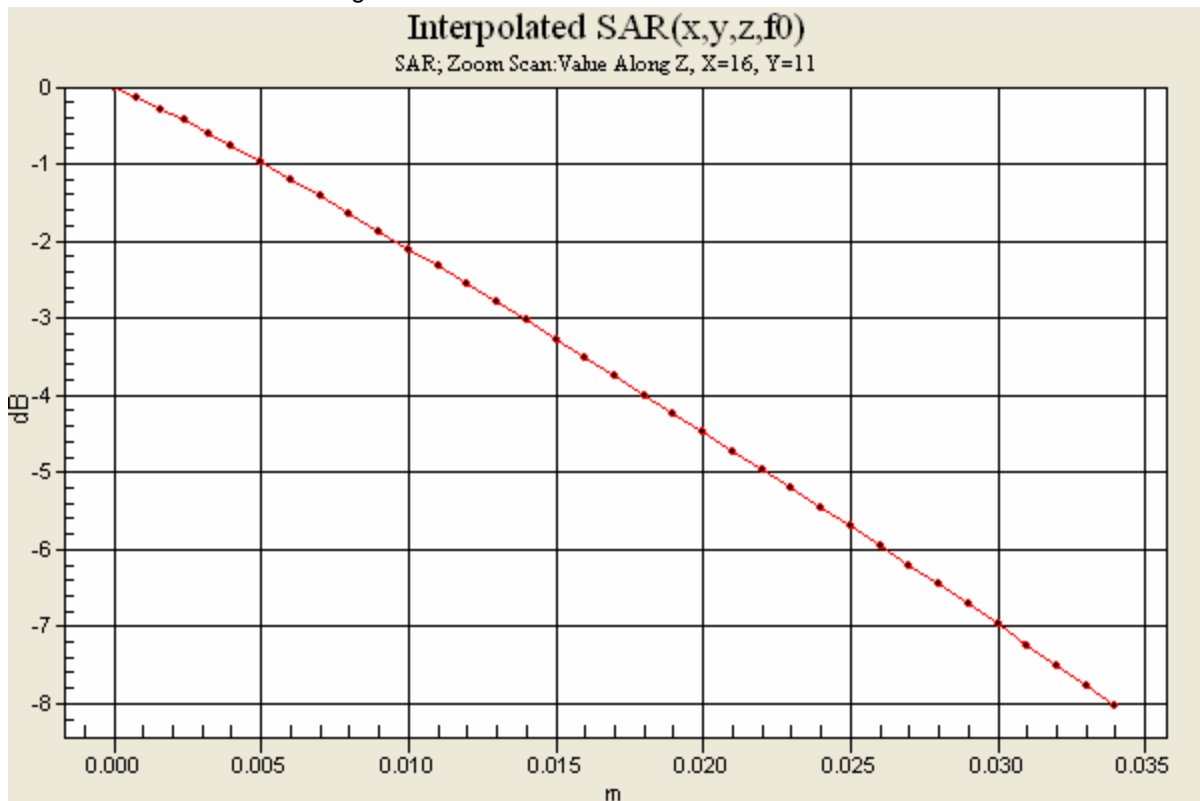
Maximum value of SAR (interpolated) = 0.747 mW/g



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0 dB = 0.747mW/g





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**800 GSM Band: Distribution and Extrapolation of Maximum SAR  
Model: W600i SN: BD3023GNBB with Standard Battery: BST-37  
Right Side, Tilt Position. DUT in closed position.**

Date/Time: 8/30/2005 11:39:05 AM Date/Time: 8/30/2005 11:44:51 AM

File Name: [30Aug05\\_W600i\\_GSM850\\_GNBB\\_closed\\_RT01.da4](#)

**DUT: W600i closed**

Program Notes: Battery BST-37 Humidity: 45.9% Ambient Temp: 23.4C Simulant Temp: 22.7C

Communication System: GSM 850; Frequency: 849 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 849 MHz; s = 0.911 mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Unnamed procedure 3/Area Scan (51x81x1):**

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.417 mW/g

**Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.1 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.508 W/kg

**SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.277 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.414 mW/g

**Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

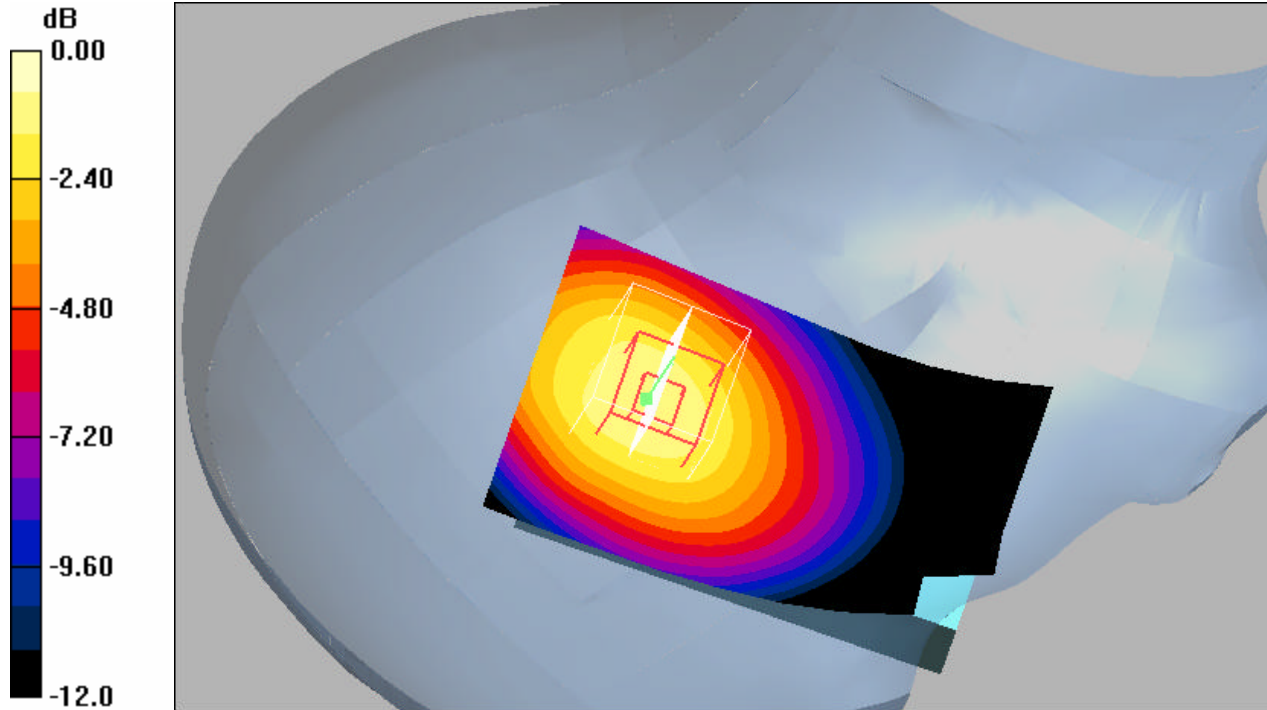
Reference Value = 21.1 V/m; Power Drift = 0.015 dB

[Info: Interpolated medium parameters used for SAR evaluation!](#)

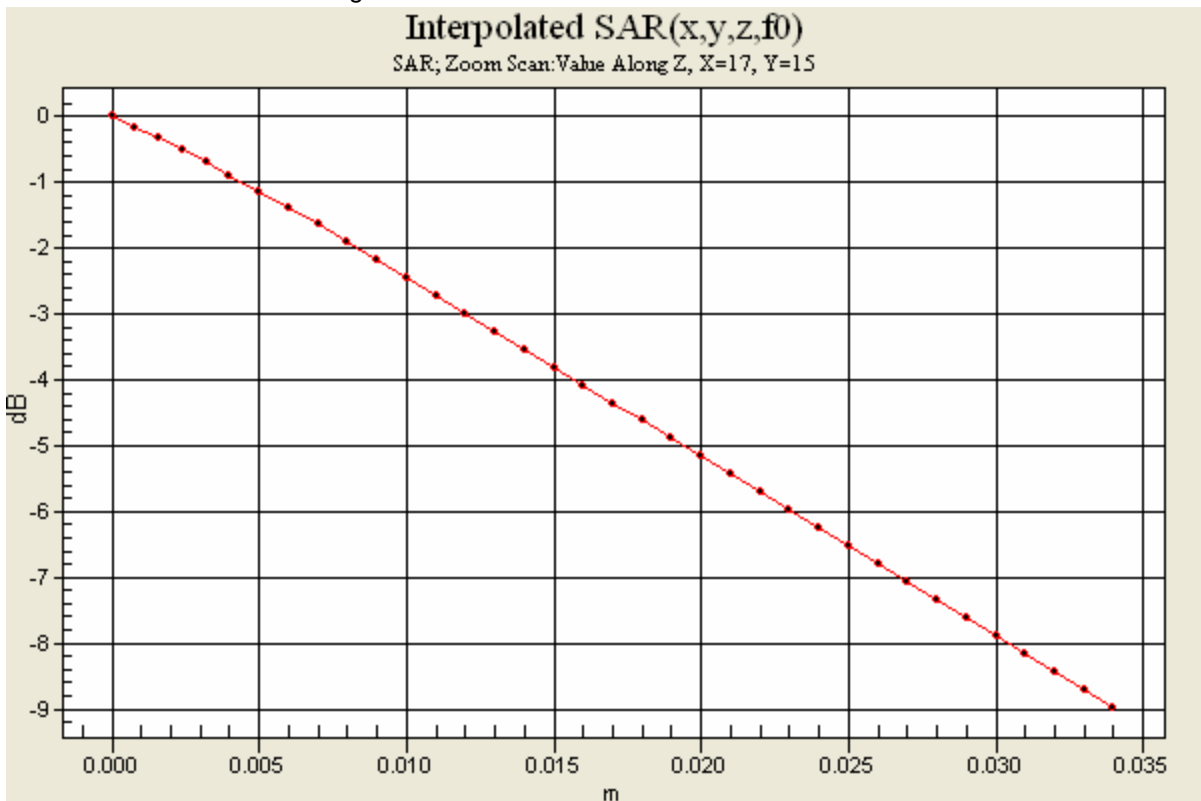
Maximum value of SAR (interpolated) = 0.508 mW/g



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0 dB = 0.508mW/g





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**800 GSM Band: Distribution and Extrapolation of Maximum SAR  
Model: W600i SN: BD3023GNBB with Standard Battery: BST-37  
Left Side, Cheek/Touch Position. DUT in closed position.**

Date/Time: 8/30/2005 9:40:41 AM Date/Time: 8/30/2005 9:46:17 AM

File Name: [30Aug05\\_W600i\\_GSM850\\_GNBB\\_closed\\_LC01.da4](#)

**DUT: W600i closed**

Program Notes: Battery BST-37 Humidity: 46.5% Ambient Temp: 22.8 Simulant Temp: 22.5

Communication System: GSM 850; Frequency: 849 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 849 MHz; s = 0.911 mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Unnamed procedure 3/Area Scan (51x81x1):**

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.620 mW/g

**Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.6 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.778 W/kg

**SAR(1 g) = 0.584 mW/g; SAR(10 g) = 0.419 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.616 mW/g

**Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

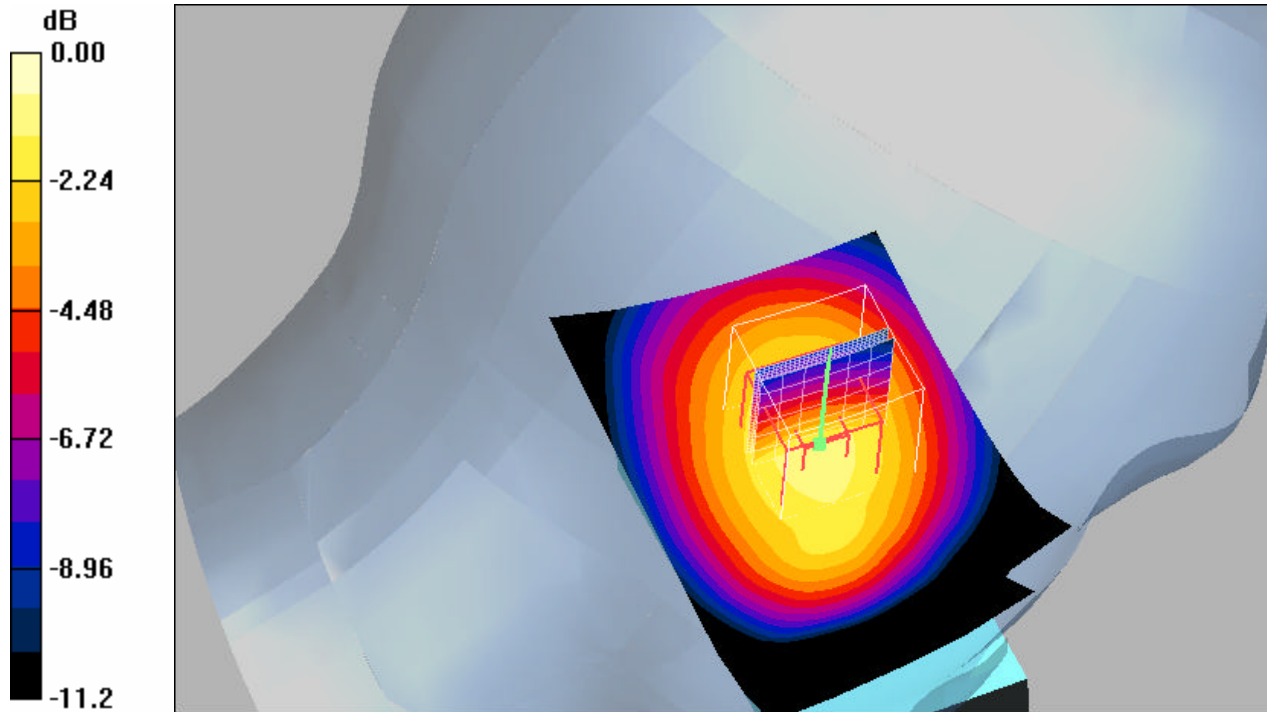
Reference Value = 21.6 V/m; Power Drift = 0.019 dB

[Info: Interpolated medium parameters used for SAR evaluation!](#)

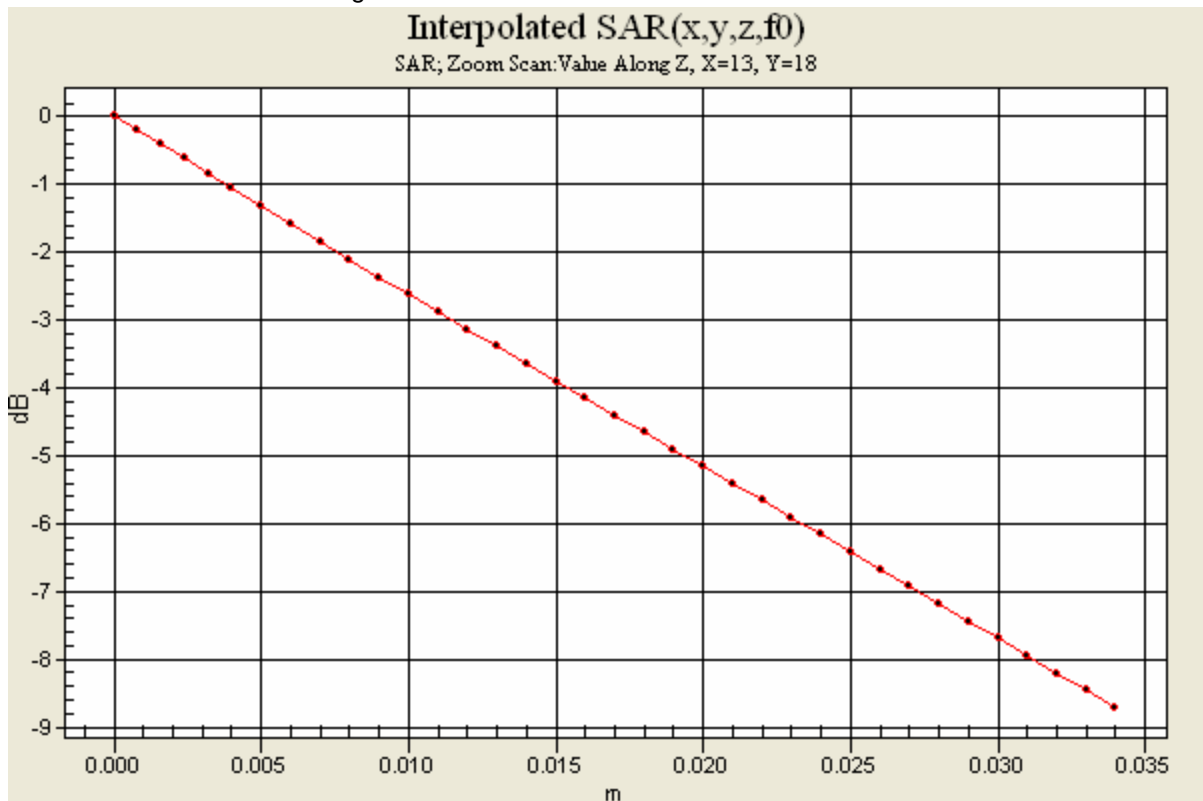
Maximum value of SAR (interpolated) = 0.778 mW/g



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0 dB = 0.778mW/g







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**800 GSM Band: Distribution and Extrapolation of Maximum SAR  
Model: W600i SN: BD3023GNBB with Standard Battery: BST-37  
Left Side, Tilt Position. DUT in closed position.**

Date/Time: 8/30/2005 10:39:38 AM Date/Time: 8/30/2005 10:45:14 AM

File Name: [30Aug05\\_W600i\\_GSM850\\_GNBB\\_closed\\_LT01.da4](#)

**DUT: W600i closed**

Program Notes: Battery BST-37 Humidity: 44.4% Ambient Temp: 23.6C Simulant Temp: 23.1C

Communication System: GSM 850; Frequency: 849 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 849 MHz; s = 0.911 mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Unnamed procedure 3/Area Scan (51x81x1):**

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.443 mW/g

**Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.5 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.622 W/kg

**SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.288 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.442 mW/g

**Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

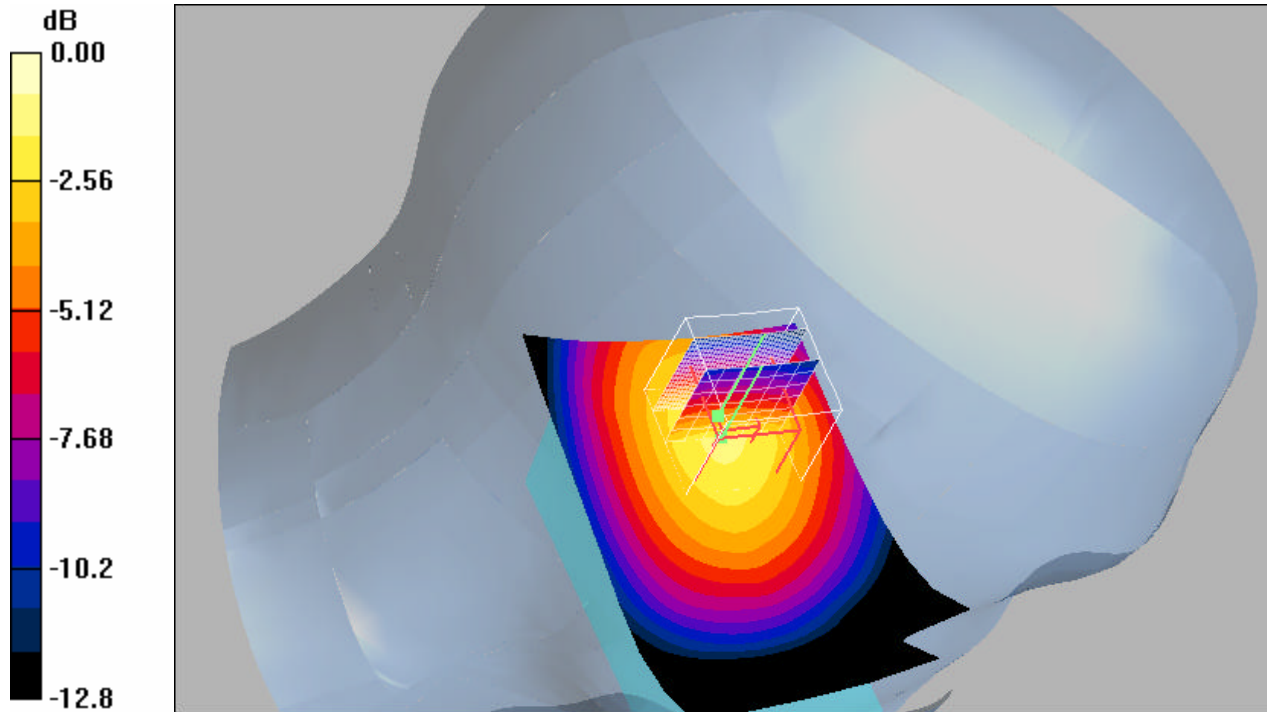
Reference Value = 20.5 V/m; Power Drift = -0.01 dB

[Info: Interpolated medium parameters used for SAR evaluation!](#)

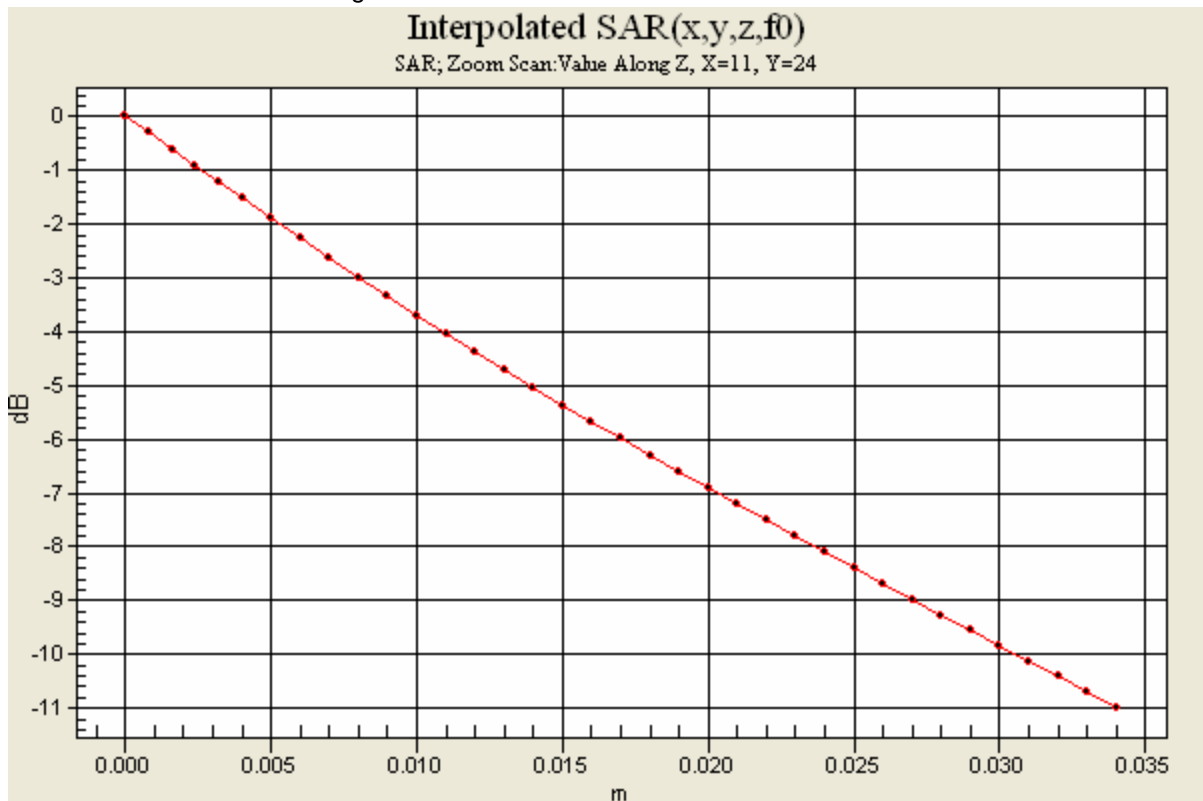
Maximum value of SAR (interpolated) = 0.622 mW/g



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0 dB = 0.622mW/g





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**800 GSM Band: Distribution and Extrapolation of Maximum SAR  
Model: W600i SN: BD3023GNBB with Standard Battery: BST-37  
Right Side, Cheek/Touch Position with Blue Tooth. DUT in closed position.**

Date/Time: 8/30/2005 1:54:03 PM Date/Time: 8/30/2005 1:59:37 PM

File Name: [30Aug05\\_W600i\\_GSM850\\_GNBB\\_closed\\_BT\\_RC01.da4](#)

**DUT: W600i closed**

Program Notes: Battery BST-37 Humidity: 45.2% Ambient Temp: 22.9C Simulant Temp: 23.2C

Communication System: GSM 850; Frequency: 849 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 849 MHz; s = 0.911 mho/m;  $\epsilon_r = 40.9$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.58, 6.58, 6.58); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**Unnamed procedure 3/Area Scan (51x81x1):**

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.628 mW/g

**Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.2 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.750 W/kg

**SAR(1 g) = 0.590 mW/g; SAR(10 g) = 0.429 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.624 mW/g

**Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm

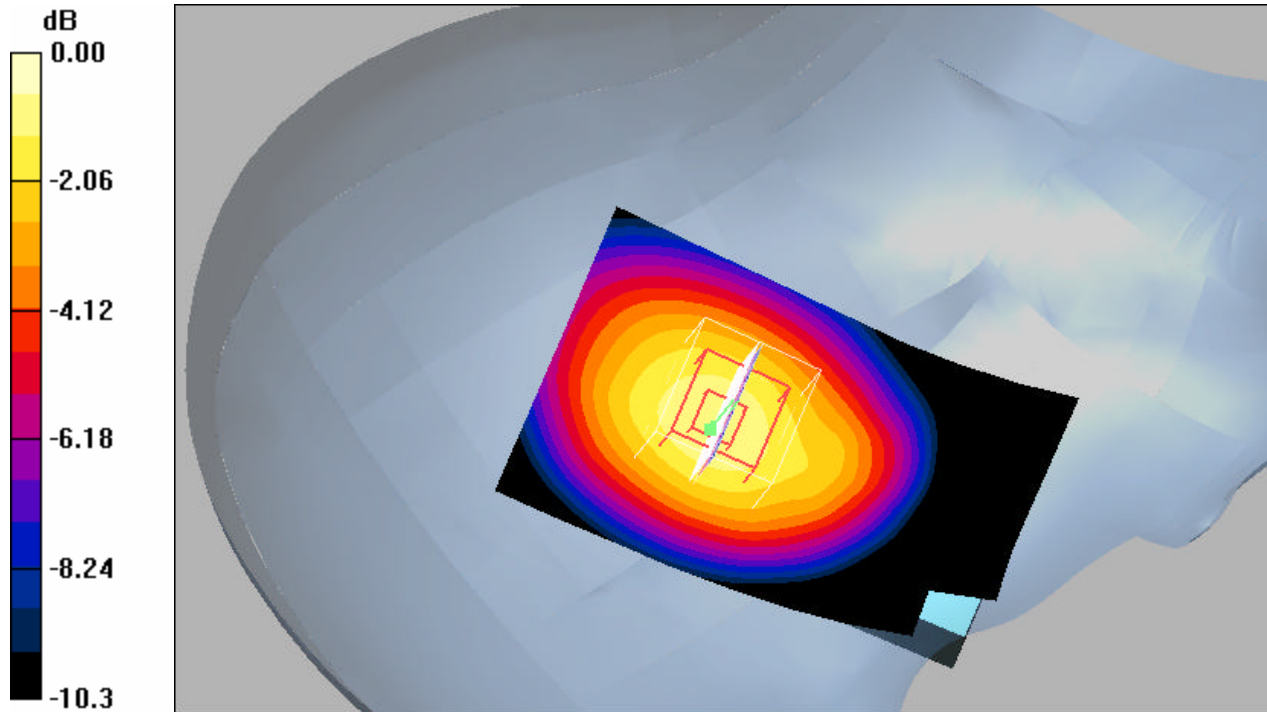
Reference Value = 23.2 V/m; Power Drift = 0.01 dB

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.750 mW/g



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0 dB = 0.750mW/g

