

Report No.: SZ11030128S02



SAR TEST REPORT

Issued to

Corporativo Lanix SA de CV

For

Mobile Phone

Model Name : R10

Trade Name

: LANIX R10

Brand Name : LANIX

FCC ID

: ZC4R10

Standard

: FCC Oet65 Supplement C Jun.2001

47CFR 2.1093

ANSI C95.1-1999

IEEE 1528-2003

MAX SAR

: Head: 0.685W/kg

Body: 0.893 W/kg

Test date

: 2011-04-25

Issue date

: 2011-06-21

Shenzhen MORLAB Communication Technology Co., Ltd.

M Shu Luan

Certification

Li Lei

Date

2011.06.21

Date

2011.06.21













IEEE 1725

741109

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	Change History					
Issue	Date	Reason for change				
1.0	Jun. 21, 2011	First edition				



1. Testing Laboratory

1.1. Identification of the Responsible Testing Laboratory

Company Name: Shenzhen Morlab Communications Technology Co., Ltd.

Department: Morlab Laboratory

Address: 3/F, Electronic Testing Building, Shahe Road, Nanshan

District, Shenzhen, 518055 P. R. China

Responsible Test Lab Manager: Mr. Shu Luan
Telephone: +86 755 86130268
Facsimile: +86 755 86130218

1.2. Identification of the Responsible Testing Location

Name: Shenzhen Morlab Communications Technology Co., Ltd.

Morlab Laboratory

Address: 3/F, Electronic Testing Building, Shahe Road, Nanshan

District, Shenzhen, 518055 P. R. China

1.3. Accreditation Certificate

Accredited Testing Laboratory: No. CNAS L3572 (see Annex A)

1.4. List of Test Equipments

No.	Instrument	Туре	Cal. Date	Cal. Due
1	PC	Dell (Pentium IV 2.4GHz, SN:X10-23533)	(n.a)	(n.a)
2	Network Emulator	Rohde&Schwarz (CMU200, SN:105894)	2010-9-26	1year
3	Voltmeter	Keithley (2000, SN:1000572)	2010-9-24	1 year
4	Synthetizer	Rohde&Schwarz (SML_03, SN:101868)	2010-9-24	1 year
5	Amplifier	Nucl udes (ALB216, SN:10800)	2010-9-24	1 year
6	Power Meter	Rohde&Schwarz (NRVD, SN:101066)	2010-9-24	1 year
7	Probe	Satimo (SN:SN_3708_EP80)	2010-9-24	1 year
8	Phantom	Satimo (SN:SN_36_08_SAM62)	2010-9-24	1 year
9	Liquid	Satimo (Last Calibration:21 08 08)	2010-8-21	1 year
10	Dipole 835MHz	Satimo (SN 36/08 DIPC 99)	2010-9-23	1 year
11	Dipole 1900MHz	Satimo (SN 36/08 DIPF 102)	2010-9-23	1 year



2. Technical Information

Note: the following data is based on the information by the applicant.

2.1. Identification of Applicant

Company Name: Corporativo Lanix SA de CV

Address: Carretera Internacional a Nogales KM 8.5 Hermosillo, Sonora,

México 83260

2.2. Identification of Manufacturer

Company Name: SHENZHEN TINNO MOBILE TECHNOLOGY CORP

Address: 4/F,H-3 Building, OCT Eastern Industrial Park. No.1 XiangShan East

Road, Nan shan Distict, ShenZhen, PR. China

2.3. Equipment Under Test (EUT)

Brand Name: LANIX

Type Name: LANIX R10

Marking Name: R10 Hardware Version: V1.0 Software Version: V2.0

Frequency Bands: GSM 850MHz / PCS 1900MHz

Modulation Mode: GSM/GPRS: GMSK; EDGE: 8PSK

Multislot Class GPRS: Class 12, EDGE: Class 12

Antenna type: Fixed Internal Antenna Development Stage: Identical prototype

Battery Model: R10-BAT
Battery specification: 850mAh 3.7V

2.3.1. Photographs of the EUT

Please see for photographs of the EUT.

2.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version		
1#	V1.0	V2.0		



2.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title						
1	47 CFR§2.1O93	Radiofrequency Radiation Exposure Evaluation: Portable Devices						
2	FCC OET	Evaluating Compliance with FCC Guidelines for Human						
	Bulletin 65	Exposure to Radiofrequency Electromagnetic Fields						
	(Edition 97-01),							
	Supplement C							
	(Edition 01-01)							
3	ANSI C95.1-1999	IEEE Standard for Safety Levels with Respect to Human						
		Exposure to Radio Frequency Electromagnetic Fields, 3kHz to						
		300 GHz						
4	IEEE 1528-2003	Recommended Practice for Determining the Peak Spatial-Average						
		Specific Absorption Rate(SAR) in the Human Body Due to						
		Wireless Communications Devices: Experimental Techniques.						

2.5. Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.



2.6. Test Environment/Conditions

Normal Temperature (NT): 20 ... 25 °C Relative Humidity: 30 ... 75 %

Air Pressure: 980 ... 1020 hPa
Test frequency: GSM 850MHz

PCS 1900MHz

Operation mode: Call established

Power Level: GSM 850 MHz Maximum output power(level 5)

PCS 1900 MHz Maximum output power(level 0)

During SAR test, EUT is in Traffic Mode (Channel Allocated) at Normal Voltage Condition. A communication link is set up with a System Simulator (SS) by air link, and a call is established.

The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 125, 190 and 251 respectively in the case of GSM 850 MHz, or to 512, 661 and 810 respectively in the case of PCS 1900 MHz, The EUT, The EUT is commanded to operate at maximum transmitting power.

The EUT shall use its internal transmitter. The antenna(s), battery and accessories shall be those specified by the manufacturer. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. If a wireless link is used, the antenna connected to the output of the base station simulator shall be placed at least 50 cm away from the handset.

The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the handset by at least 35 dB.



3. Specific Absorption Rate (SAR)

3.1. Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

3.2. SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density. ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

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

SAR measurement can be either related to the temperature elevation in tissue by

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

, where C is the specific head capacity, δ T is the temperature rise and δ t the exposure duration, or related to the electrical field in the tissue by

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

, where σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the rms electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.



4. SAR Measurement Setup

4.1. The Measurement System

Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

4.2. Probe

For the measurements the Specific Dosimetric E-Field Probe SN 37/08 EP80 with following specifications is used

- Dynamic range: 0.01-100 W/kg

- Tip Diameter: 6.5 mm

- Distance between probe tip and sensor center: 2.5mm

- Distance between sensor center and the inner phantom surface: 4 mm (repeatability better than +/- 1mm)

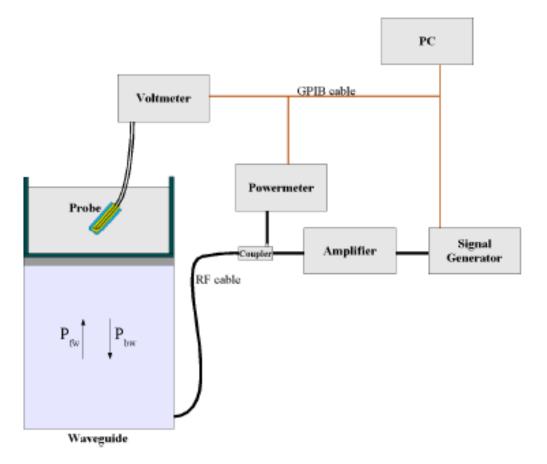


- Probe linearity: <0.25 dB
- Axial Isotropy: <0.25 dB
- Spherical Isotropy: <0.25 dB

- Calibration range: 835to 2500MHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and suface normal line:1ess than 30°

Probe calibration is realized, in compliance with CENELEC EN 62209 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 622091 annexe technique using reference guide at the five frequencies.



$$SAR = \frac{4\left(P_{fw} - P_{bw}\right)}{ab\delta} \cos^2\left(\pi \frac{y}{a}\right) e^{-(2z/\delta)}$$

Where:

Pfw = Forward Power Pbw = Backward Power

a and b = Waveguide dimensions

Skin depthKeithley configuration:

Rate = Medium; Filter =ON; RDGS=10; FILTER TYPE =MOVING AVERAGE; RANGE AUTO After each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.



The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N)=SAR(N)/Vlin(N)$$
 (N=1,2,3)

The linearised output voltage Vlin(N) is obtained from the displayed output voltage V(N) using

$$Vlin(N)=V(N)*(1+V(N)/DCP(N))$$
 (N=1,2,3)

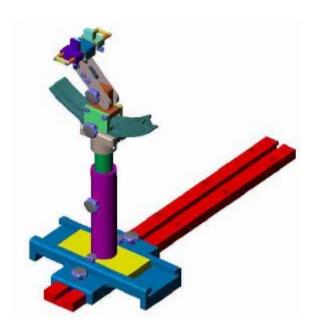
where DCP is the diode compression point in mV.

4.3. Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

4.4. Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.



Device holder

System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005



5. Tissue Simulating Liquids

Simulant liquids that are used for testing at frequencies of GSM 850MHz PCS 1900MHz, which are made mainly of sugar, salt and water solutions may be left in the phantoms. Approximately 20litres are needed for an upright head compared to about 25 litres for a horizontal bath phantom. The liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is (head SAR) or from the flat phantom to the liquid top surface (body SAR) is 15cm.

Gives the recipes for one liter of head and body tissue simulating liquid for frequency band 835 MHz and 1900 MHz.

Ingredients	Frequen	cy Band	Frequen	cy Band
(% by weight)	835]	MHz	1900	MHz
Tissue Type	Head	Body	Head	Body
Water	41.45	52.4	55.36	40.4
Salt(NaCl)	1.45	1.4	0.35	0.5
Sugar	56.0	45.0	30.45	58.0
HEC	1.0	1.0	0.0	1.0
Bactericide	0.1	0.1	0.0	0.1
Triton	0.0	0.0	0.0	0.0
DGBE	0.0	0.0	13.84	0.0
Acticide SPX	0.0	0.0	0.0	0.0
Dielectric Constant	42.45	56.1	41.00	54.0
Conductivity (S/m)	0.91	0.95	1.38	1.45

Recipes for Tissue Simulating Liquid

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an Agilent 85033E Dielectric Probe Kit and an Agilent Network Analyzer.

Table 1: Dielectric Performance of Head Tissue Simulating Liquid

Temperature: 23.0~23.8°C, humidity: 54~60%.								
/	Frequency	Permittivity ε	Conductivity σ (S/m)					
Target value	835 MHZ	41.5	0.90					
Validation value (May 25)	835 MHZ	41.675999	0.894409					
Target value	1900 MHZ	40	1.40					
Validation value (May 25)	1900 MHZ	38.509998	1.436111					



For body-worn measurements, the device was tested against flat phantom representing the user body. Under measurement phone was put on in the phone holder.

Table 2: Dielectric Performance of Body Tissue Simulating Liquid

Temperature: 23.0~23.8°C, humidity: 54~60%.								
/	Frequency	Permittivity ε	Conductivity σ (S/m)					
Target value	835 MHz	55.2	0.97					
Validation value (May 25)	835 MHz	55.709999	1.009033					
Target value	1900 MHz	53.3	1.52					
Validation value (May 25)	1900 MHz	52.548876	1.573978					



6. Uncertainty Assessment

The following table includes the uncertainty table of the IEEE 1528. The values are determined by Antennessa.

6.1. UNCERTAINTY EVALUATION FOR HANDSET SAR TEST

a	b	c	d	e=f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol (+- %	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	V
Measurement System			I						.1
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	0.7	0.7	1.02	1.02	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	0.7	0.7	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R		1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∞
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	~
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	8
Test sample Related			I						.1
Test sample positioning	E.4.2.1	0.03	N	1	1	1	0.03	0.03	N - 1
Device Holder Uncertainty	E.4.1.1	5.00	N	1	1	1	5.00	5.00	∞
Output power Power drift - SAR drift measurement	6.6.2	2.74	R	$\sqrt{3}$	1	1	1.58	1.58	∞
Phantom and Tissue Paramete	rs	1	1	_	1	_	•	_	
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Liquid conductivity - deviation from target value	E.3.2	4.57	R	$\sqrt{3}$	0.64	0.43	1.69	1.13	∞



Liquid conductivity -	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	M
measurement uncertainty									
Liquid permittivity - deviation	E.3.2	3.69	R	$\sqrt{3}$	0.6	0.49	1.28	1.04	8
from target value									
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
measurement uncertainty									
Combined Standard			RSS				10.09	9.53	
Uncertainty									
Expanded Uncertainty			k				20.18	19.06	
(95% Confidence interval)									

6.2. UNCERTAINTY FOR SYSTEM PERFORMANCE CHECK

a	b	С	d	e=f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol (+- %	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	V
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	0.7	0.7	1.02	1.02	8
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	0.7	0.7	1.63	1.63	8
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	8
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	8
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	8
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	8
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	8
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	8
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	8
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	8
Dipole	<u>I</u>	l	ı			<u> </u>			1
Dipole axis to liquid Distance	8,E.4.2	1.00	R	$\sqrt{3}$	1	1	0.58	0.58	N - 1
Input power and SAR drift measurement	8,6.6.2	2.74	R	$\sqrt{3}$	1	1	1.58	1.58	∞



Phantom and Tissue Parameters									
Phantom Uncertainty (Shape	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	8
and thickness tolerances)									
Liquid conductivity - deviation	E.3.2	4.57	R	$\sqrt{3}$	0.64	0.43	1.69	1.13	∞
from target value									
Liquid conductivity -	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	M
measurement uncertainty									
Liquid permittivity - deviation	E.3.2	3.69	R	$\sqrt{3}$	0.6	0.49	1.28	1.04	8
from target value									
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
measurement uncertainty									
Combined Standard			RSS				8.77	8.12	
Uncertainty									
Expanded Uncertainty			k				17.54	16.25	
(95% Confidence interval)									



7. SAR Measurement Evaluation

7.1. System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 835 MHz and 1900 MHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom.

Equipments:

name	Type and specification		
Signal generator	E4433B		
Directional coupler	450MHz-3GHz		
Amplifier	3W 502(10-2500MHz)		
Deference dinale	835MHz:SN 36/08 DIPC 99		
Reference dipole	1900MHz:SN 36/08 DIPF 102		

7.2. Validation Results

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 %.

Frequency	835MHz	1900MHz
Target value (1g)	9.5 W/Kg	38.1 W/Kg
250Wit	2.678 W/Kg (head)	9.456 W/Kg (head)
250 mW input power	2.875 W/Kg (body)	9.988 W/Kg (body)
Test value (1a)	10.712 W/Kg (head)	37.824 W/Kg (head)
Test value (1g)	11.500 W/Kg (body)	39.952 W/Kg (body)

Note: System checks the specific test data please see page 129-136.

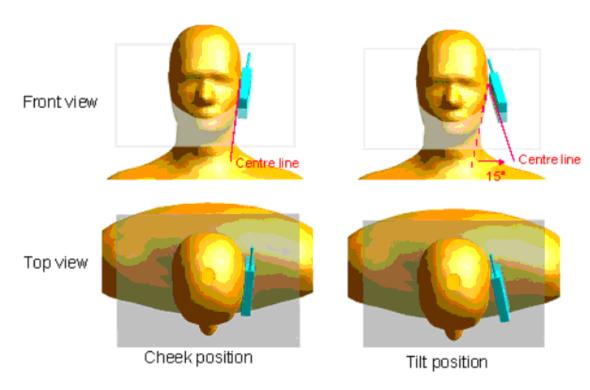


8. Operational Conditions During Test

8.1. Informations on the testing

The mobile phone antenna and battery are those specified by the manufacturer. The battery is fully charged before each measurement. The output power and frequency are controlled using a base station simulator. The mobile phone is set to transmit at its highest output peak power level.

The mobile phone is test in the "cheek" and "tilted" positions on the left and right sides of the phantom. The mobile phone is placed with the vertical centre line of the body of the mobile phone and the horizontal line crossing the centre of the earpiece in a plane parallel to the sagittal plane of the phantom.



Description of the "cheek" position:

The mobile phone is well placed in the reference plane and the earpiece is in contact with the ear. Then the mobile phone is moved until any point on the front side get in contact with the cheek of the phantom or until contact with the ear is lost.

Description of the "tilted" position:

The mobile phone is well placed in the "cheek" position as described above. Then the mobile phone is moved outward away from the month by an angle of 15 degrees or until contact with the ear lost.

Remark: Please refer to Appendix B for the test setup photos.

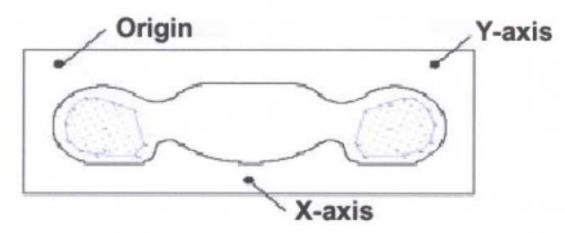
8.2. Body-worn Configurations

The body-worn configurations shall be tested with the supplied accessories (belt-clips, holsters, etc.) attached to the device in normal use configuration.



The depth of the body tissue was 15.1cm. The distance between the back of the device and the bottom of the flat phantom is 1.5cm(taking into account of the IEEE 1528 and the place of the antenna)

For body-worn and other configurations a flat phantom shall be used which is comprised of material with electrical properties similar to the corresponding tissues.



SAR Measurement Points in Area Scan

8.3. Measurement procedure

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors can not directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

8.4. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimize measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated



from the liquid surface with a 1mm step.
The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.
dimensional scanned data array.



9. Measurement Of Conducted Output Power

GSM Mode

Dond	Chamal	Frequency	Output Power
Band	Channel	(MHz)	(dBm)
GSM	128	824.2	28.94
850	190	836.6	30.84
830	251	848.8	33.09
PCS	512	1850.2	28.30
1900	661	1880.0	28.38
1900	810	1909.8	27.31

GPRS Mode

Band Channel	Frequency	Output Power(dBm)					
	Channel	(MHz)	Slot 1	Slot 2	Slot 3	Slot 4	
GSM	128	824.2	31.85	31.80	31.85	31.84	
850	190	836.6	32.33	32.40	32.51	32.46	
830	251	848.8	32.65	32.58	32.59	32.74	
DCC	512	1850.2	28.54	28.67	28.33	28.42	
PCS 1900	661	1880.0	28.57	28.57	28.56	28.42	
1900	810	1909.8	28.56	28.95	28.51	28.45	

EDGE Mode

Band	Band Channel		Output Power(dBm)					
Danu Chainlei	(MHz)	Slot 1	Slot 2	Slot 3	Slot 4			
GSM	128	824.2	32.36	32.29	32.33	32.31		
850	190	836.6	32.01	32.21	32.16	31.99		
830	251	848.8	31.45	31.65	31.55	31.46		
DCC	512	1850.2	27.96	28.08	28.14	27.92		
PCS 1900	661	1880.0	28.56	28.68	28.71	28.75		
1900	810	1909.8	28.35	28.23	28.25	28.27		



GPRS Time-based Average Power

Band	Band Channel	Frequency	Output Power(dBm)					
Band Channel	Channel	(MHz)	Slot 1	Slot 2	Slot 3	Slot 4		
GSM	128	824.2	22.85	25.80	28.35	29.84		
850	190	836.6	23.33	26.40	29.01	30.46		
830	251	848.8	23.65	26.58	29.09	30.74		
DCC	512	1850.2	19.54	22.67	24.83	26.42		
PCS 1900	661	1880.0	19.57	22.57	25.06	26.42		
1900	810	1909.8	19.56	22.95	25.01	26.45		

EDGE Time-based Average Power

Dand Channel	Frequency	Output Power(dBm)					
Band	Channel	(MHz)	Slot 1	Slot 2	Slot 3	Slot 4	
CCM	128	824.2	23.36	26.29	28.83	30.31	
GSM 850	190	836.6	23.01	26.21	28.66	29.99	
830	251	848.8	22.45	25.65	28.05	29.46	
DCC	512	1850.2	18.96	22.08	24.64	25.92	
PCS 1900	661	1880.0	19.56	22.68	25.21	26.75	
1900	810	1909.8	19.35	22.23	24.75	26.27	

Bluetooth peak output power

Band	Channal	Frequency		Output Power(dBm)			
	Channel	(MHz)	GFSK	∏/4-DQPSK	8-DPSK		
	0	2402	9.514	8.072	8.098		
BT	38	2441	8.441	6.936	6.997		
	79	2480	8.027	6.458	6.568		



10.Test Results List

Summary of Measurement Results (GSM 850MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.							
			SAR(W/Kg)				
Phantom	Device Test	Antenna	Device Test channel, Frequency and				
Configurations	Positions	Positions		Power			
Comigurations	TOSITIONS	1 OSITIONS	Channel	Channel	Channel		
			128	192	251		
Left Side	Cheek/Touch	Internal	0.411	0.401	0.498		
Of Head	Ear/Tilt	Internal	0.286	0.375	0.365		
Right Side	Cheek/Touch	Internal	0.540	0.685	0.637		
Of Head	Ear/Tilt	Internal	0.302	0.395	0.414		
Body	Back upward	Internal	0.893	0.777	0.609		
(GPRS)	Face Upward	Internal	/	/	0.216		
Body	Back upward	Internal	0.787	0.724	0.753		
(EDGE)	Face Upward	Internal	0.301	/	/		
Body	Back upward	Internal	0.405	0.427	0.486		
(GSM)	Face Upward	Internal	/	/	0.211		

Summary of Measurement Results (GSM 1900MHz Band)

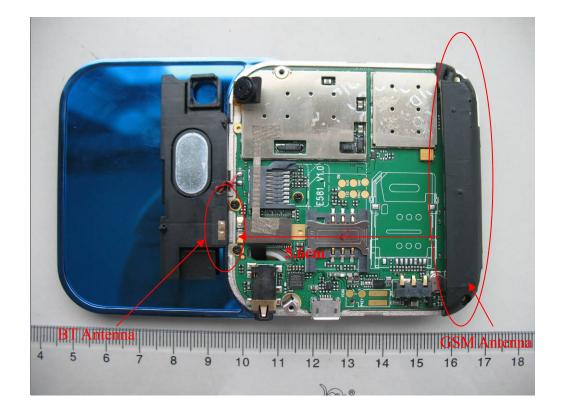
Temperature: 21.0~23.8°C, humidity: 54~60%.							
	Device Test	Antenna Positions	SAR(W/Kg)				
Phantom			Device Test channel, Frequency and Power				
Configurations	Positions		Channel 512	Channel 661	Channel 810		
Left Side	Cheek/Touch	Internal	0.326	0.442	0.388		
Of Head	Ear/Tilt	Internal	0.106	0.164	0.150		
Right Side	Cheek/Touch	Internal	0.304	0.314	0.287		
Of Head	Ear/Tilt	Internal	0.151	0.150	0.124		
Body	Back upward	Internal	0.703	0.615	0.588		
(GPRS)	Face Upward	Internal	/	/	0.280		
Body	Back upward	Internal	0.604	0.717	0.656		
(EDGE)	Face Upward	Internal	/	0.255	/		
Body	Back upward	Internal	0.392	0.377	0.309		
(GSM)	Face Upward	Internal	/	0.195	/		

Note: Refer KDB 447498, when the SAR procedures require multiple channels to be tested and the 1-g SAR for the highest output channel is less than 0.8 W/kg and peak SAR is less than 1.6W/kg, where the transmission band corresponding to all channels is \leq 100 MHz, testing for the other channels is not required



11. Multiple Transmitters Evaluation

The are three transmitters build in EUT, GSM, and Bluetooth, As follwing:



1. The Bluetooth peak output power is 9.514dBm,, the distance between Wifi antenna and GSM antenna is 5.6cm, according with KDB 648474 D01, When the Unlicensed Transmitter's output \leq P Ref and antenna is \geq 2.5 cm from other antennas, The Wifi 802.11G mode Stand-alone SAR not required.

Note: P_{Ref} for Buletooth is 12mW=10.8dBm.

.



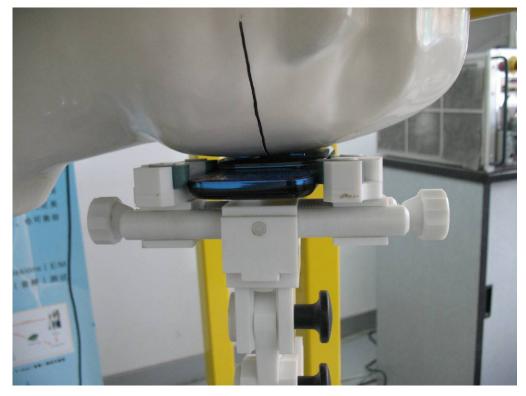
Annex A Accreditation Certificate



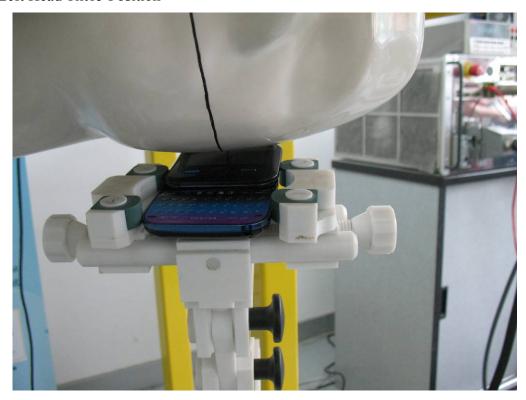


Annex B EUT Setup Photos

1 EUT Left Head Touch Cheek Position



2 EUT Left Head Tilt15 Position





3 EUT Right Head Touch Cheek Position



4 EUT Right Head Tilt15 Position

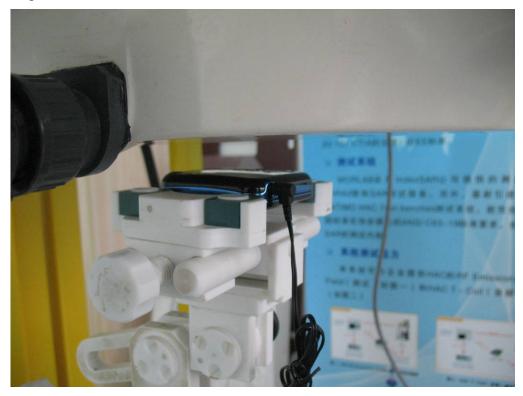




5 Side Position



6 With Headphone





Liquid Level Photo





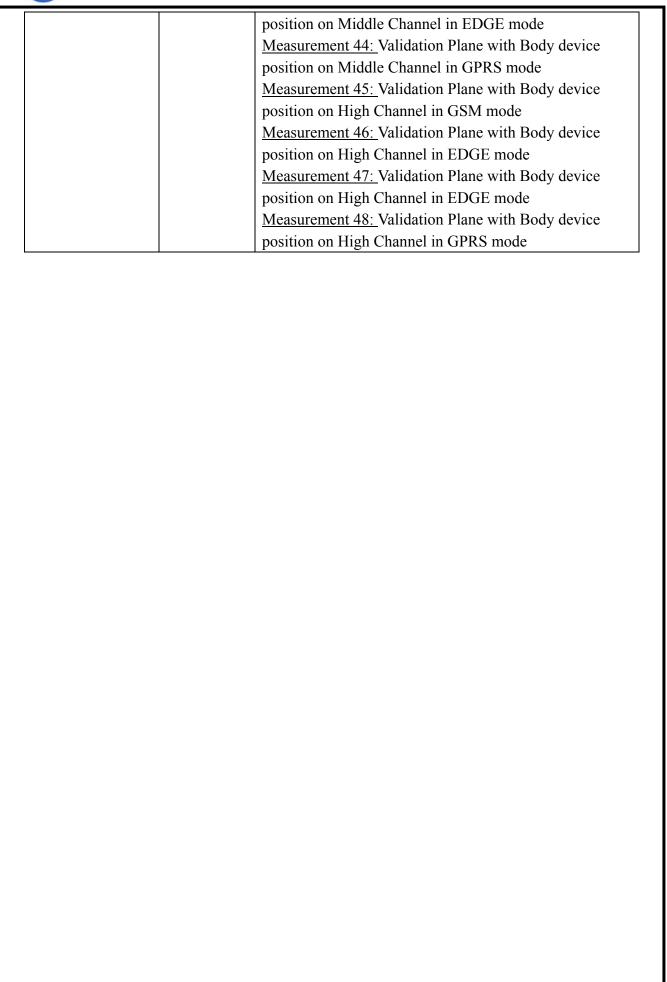
Annex C Graph Test Results

TYPE	BAND	<u>PARAMETERS</u>			
		Measurement 1: Right Head with Cheek device position			
		on Low Channel in GSM mode			
		Measurement 2: Right Head with Cheek device position			
		on Middle Channel in GSM mode			
		Measurement 3: Right Head with Cheek device position			
		on High Channel in GSM mode			
		Measurement 4: Right Head with Tilt device position on			
		Low Channel in GSM mode			
		Measurement 5: Right Head with Tilt device position on			
		Middle Channel in GSM mode			
		Measurement 6: Right Head with Tilt device position on			
		High Channel in GSM mode			
		Measurement 7: Left Head with Cheek device position			
		on Low Channel in GSM mode			
		Measurement 8: Left Head with Cheek device position			
		on Middle Channel in GSM mode			
		Measurement 9: Left Head with Cheek device position			
		on High Channel in GSM mode			
		Measurement 10: Left Head with Tilt device position on			
		Low Channel in GSM mode			
	<u>GSM850</u>	Measurement 11: Left Head with Tilt device position on			
		Middle Channel in GSM mode			
		Measurement 12: Left Head with Tilt device position on			
		High Channel in GSM mode			
		Measurement 13: Validation Plane with Body device			
		position on Low Channel in GSM mode			
		Measurement 14: Validation Plane with Body device			
		position on Low Channel in EDGE mode			
		Measurement 15: Validation Plane with Body device			
		position on Low Channel in EDGE mode			
		Measurement 16: Validation Plane with Body device			
		position on Low Channel in GPRS mode			
		Measurement 17: Validation Plane with Body device			
		position on Middle Channel in GSM mode			
		Measurement 18: Validation Plane with Body device			
		position on Middle Channel in EDGE mode			
		Measurement 19: Validation Plane with Body device			
		position on Middle Channel in GPRS mode			
		Measurement 20: Validation Plane with Body device			
		position on High Channel in GSM mode			
		Measurement 21: Validation Plane with Body device			



	position on High Channel in GSM mode
	Measurement 22: Validation Plane with Body device
	position on High Channel inEDGE mode
	Measurement 23: Validation Plane with Body device
	position on Middle Channel in GPRS mode
	Measurement 24: Validation Plane with Body device
	position on Middle Channel in GSM mode
	Measurement 25: Right Head with Cheek device position
	on Low Channel in GSM mode
	Measurement 26: Right Head with Cheek device position
	on Middle Channel in GSM mode
	Measurement 27: Right Head with Cheek device position
	on High Channel in GSM mode
	Measurement 28: Right Head with Tilt device position on
	Low Channel in GSM mode
	Measurement 29: Right Head with Tilt device position on
	Middle Channel in GSM mode
	Measurement 30: Right Head with Tilt device position on
	High Channel in GSM mode
	Measurement 31: Left Head with Cheek device position
	on Low Channel in GSM mode
	Measurement 32: Left Head with Cheek device position
	on Middle Channel in GSM mode
	Measurement 33: Left Head with Cheek device position
	on High Channel in GSM mode
GSM1900	Measurement 34: Left Head with Tilt device position on
	Low Channel in GSM mode
	Measurement 35: Left Head with Tilt device position on
	Middle Channel in GSM mode
	Measurement 36: Left Head with Tilt device position on
	High Channel in GSM mode
	Measurement 37: Validation Plane with Body device
	position on Low Channel in GSM mode
	Measurement 38: Validation Plane with Body device
	position on Low Channel in EDGE mode
	Measurement 39: Validation Plane with Body device
	position on Low Channel in GPRS mode
	Measurement 40: Validation Plane with Body device
	position on Middle Channel inGSM mode
	Measurement 41: Validation Plane with Body device
	position on Middle Channel in GSM mode
	Measurement 42: Validation Plane with Body device
	position on Middle Channel in EDGE mode
	Measurement 43: Validation Plane with Body device







MEASUREMENT 1

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 42 seconds

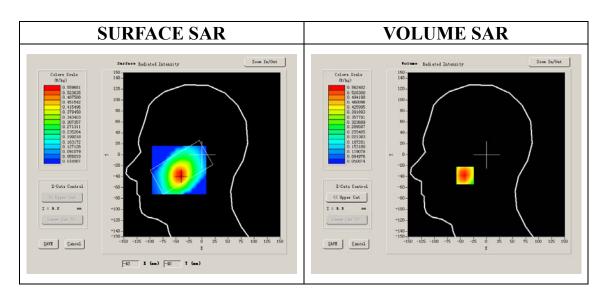
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Cheek			
Band	GSM850			
Channels	Low			
Signal	GSM			

B. SAR Measurement Results

Lower Band SAR (Channel 128):

() () () () () () () () () ()	
Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250
Conductivity (S/m)	0.866612
Power drift (%)	-0.350000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



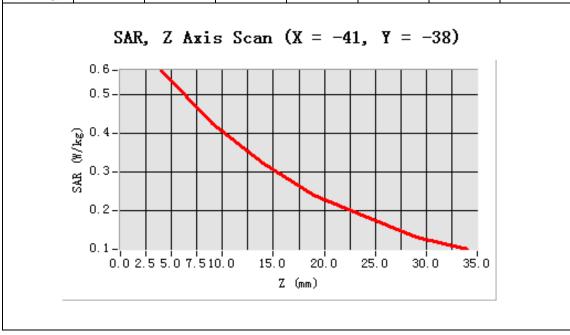


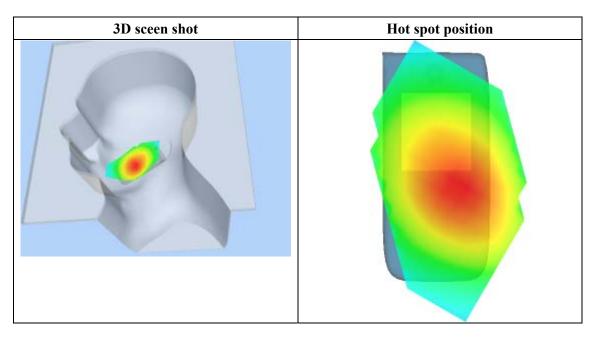
Maximum location: X=-41.00, Y=-38.00

SAR 10g (W/Kg)	0.380253		
SAR 1g (W/Kg)	0.539594		

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5624	0.4259	0.3238	0.2404	0.1854	0.1327
(W/Kg)							







MEASUREMENT 2

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 46 seconds

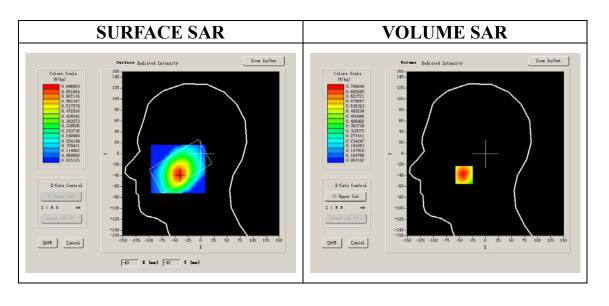
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Cheek			
Band	GSM850			
Channels	Middle			
Signal	GSM			

B. SAR Measurement Results

Middle Band SAR (Channel 190):

ire Build Stiff (Chaimer 190).	
Frequency (MHz)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power drift (%)	0.420000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



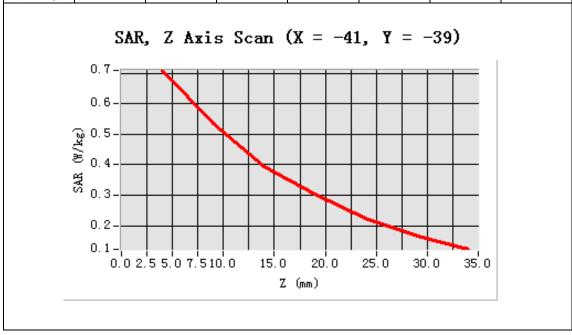


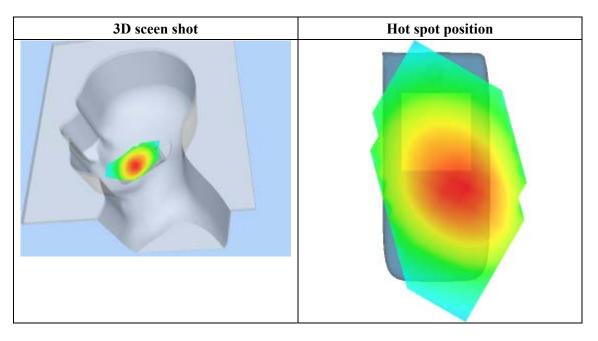
Maximum location: X=-41.00, Y=-39.00

SAR 10g (W/Kg)	0.478347		
SAR 1g (W/Kg)	0.684539		

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7090	0.5355	0.3942	0.3057	0.2231	0.1666
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 45 seconds

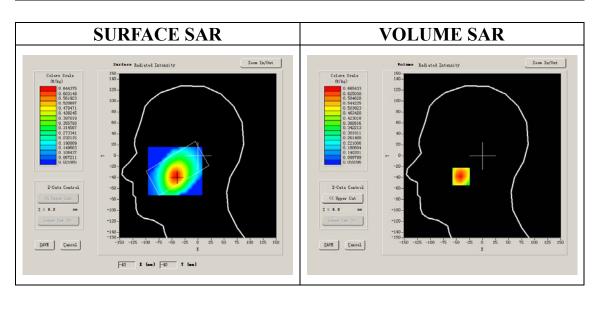
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Cheek			
Band	GSM850			
Channels	High			
Signal	GSM			

B. SAR Measurement Results

Higher Band SAR (Channel 251):

er Bund britt (Chamier 251).				
Frequency (MHz)	848.799988			
Relative permittivity (real part)	41.675999			
Relative permittivity	18.967199			
Conductivity (S/m)	0.894409			
Power drift (%)	1.760000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

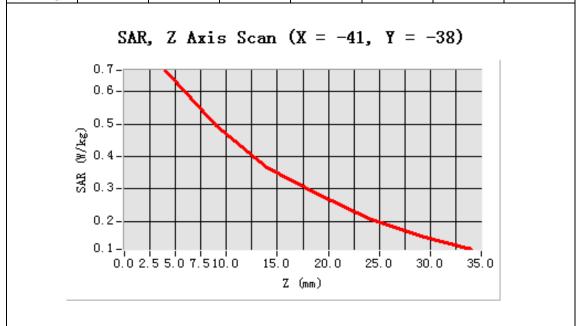


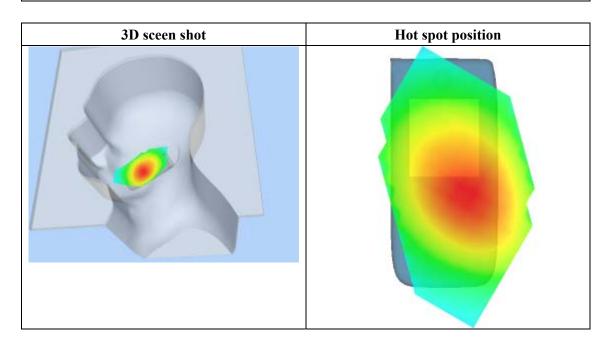


Maximum location: X=-41.00, Y=-38.00

SAR 10g (W/Kg)	0.440273		
SAR 1g (W/Kg)	0.637145		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6654	0.4944	0.3672	0.2849	0.2082	0.1533
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 37 seconds

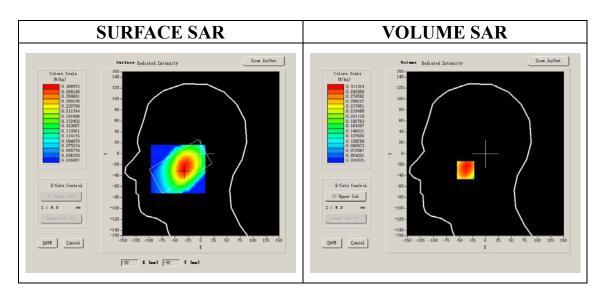
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Tilt			
Band	GSM850			
Channels	Low			
Signal	GSM			

B. SAR Measurement Results

Lower Band SAR (Channel 128):

or Bund Britt (Chamier 120).				
Frequency (MHz)	824.200012			
Relative permittivity (real part)	41.790001			
Relative permittivity	18.926250			
Conductivity (S/m)	0.866612			
Power drift (%)	-0.940000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

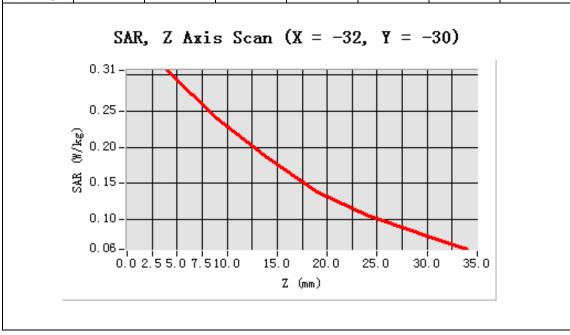


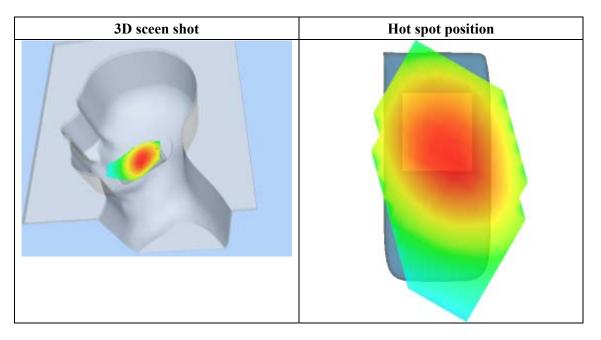


Maximum location: X=-32.00, Y=-30.00

SAR 10g (W/Kg)	0.220588		
SAR 1g (W/Kg)	0.301559		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3065	0.2387	0.1854	0.1379	0.1065	0.0817
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 34 seconds

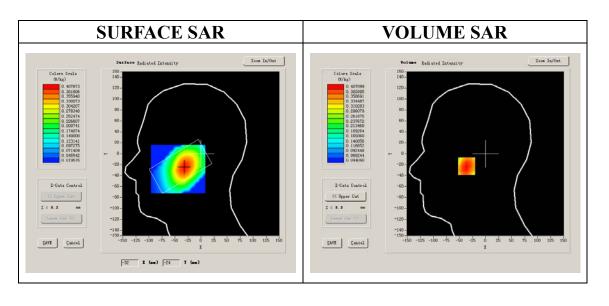
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

B. SAR Measurement Results

Middle Band SAR (Channel 190):

ire Build Stiff (Chaimer 190).			
Frequency (MHz)	836.599976		
Relative permittivity (real part)	40.669998		
Relative permittivity	19.120001		
Conductivity (S/m)	0.888655		
Power drift (%)	0.770000		
Ambient Temperature:	22.2°C		
Liquid Temperature:	21.8C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		

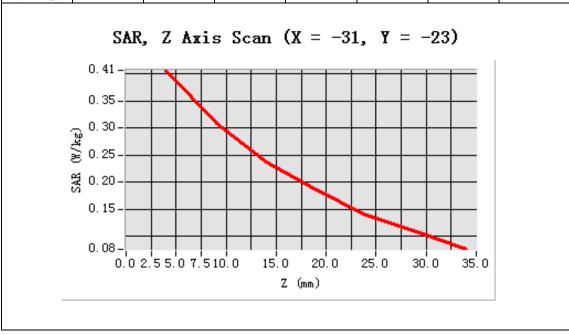


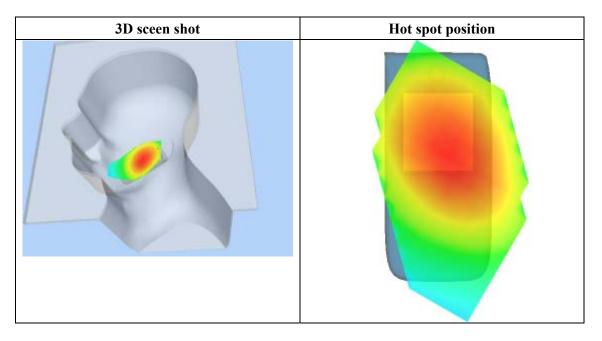


Maximum location: X=-31.00, Y=-23.00

SAR 10g (W/Kg)	0.285996		
SAR 1g (W/Kg)	0.394517		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4071	0.3087	0.2365	0.1873	0.1396	0.1076
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 35 seconds

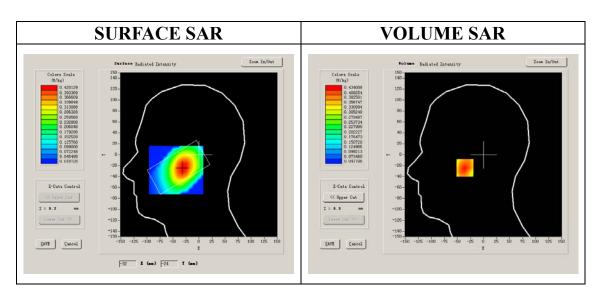
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Tilt	
Band	GSM850	
Channels	High	
Signal	GSM	

B. SAR Measurement Results

Higher Band SAR (Channel 251):

er Bund britt (Chamier 251).				
Frequency (MHz)	848.799988			
Relative permittivity (real part)	41.675999			
Relative permittivity	18.967199			
Conductivity (S/m)	0.894409			
Power drift (%)	0.150000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

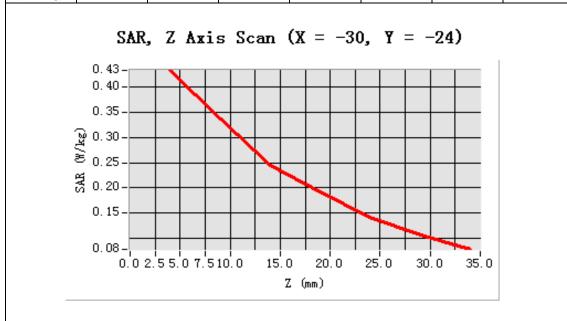


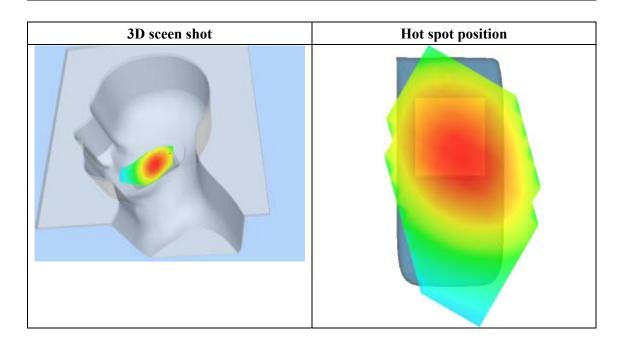


Maximum location: X=-30.00, Y=-24.00

SAR 10g (W/Kg)	0.296459		
SAR 1g (W/Kg)	0.413697		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4340	0.3362	0.2449	0.1912	0.1404	0.1065
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 41 seconds

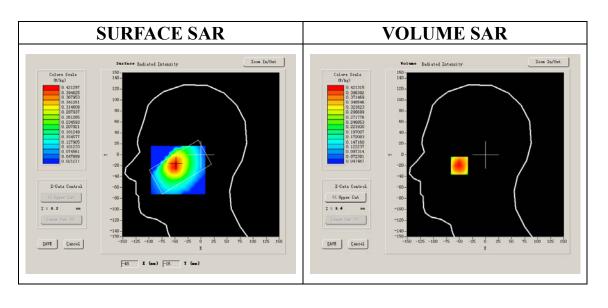
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Cheek			
Band	GSM850			
Channels	Low			
Signal	GSM			

B. SAR Measurement Results

Lower Band SAR (Channel 128):

or Bund Britt (Chamier 120).				
Frequency (MHz)	824.200012			
Relative permittivity (real part)	41.790001			
Relative permittivity	18.926250			
Conductivity (S/m)	0.866612			
Power drift (%)	1.370000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

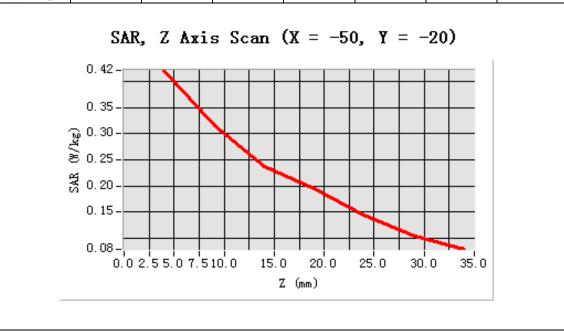


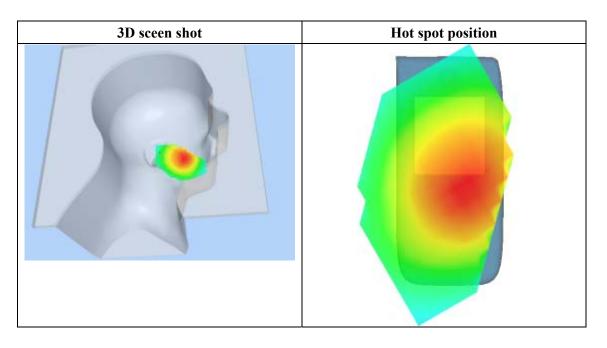


Maximum location: X=-50.00, Y=-20.00

SAR 10g (W/Kg)	0.289674		
SAR 1g (W/Kg)	0.410786		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4213	0.3158	0.2382	0.1942	0.1435	0.1033
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 8 minutes 38 seconds

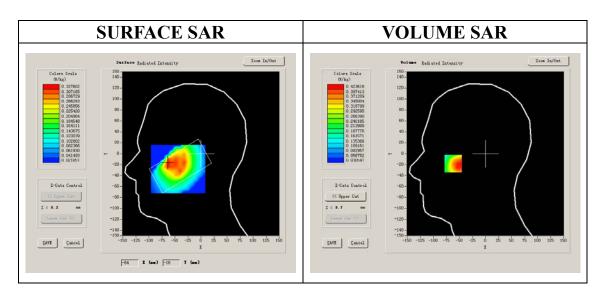
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Cheek			
Band	GSM850			
Channels	Middle			
Signal	I GSM			

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976			
Relative permittivity (real part)	40.669998			
Relative permittivity	19.120001			
Conductivity (S/m)	0.888655			
Power drift (%)	-10.640000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

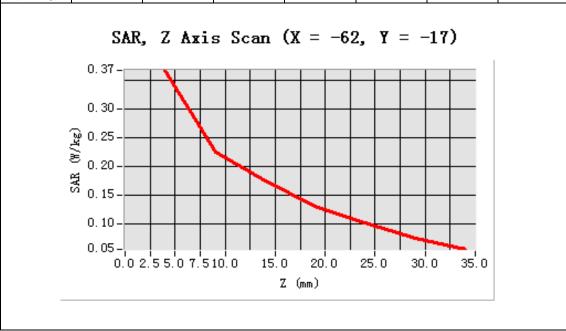


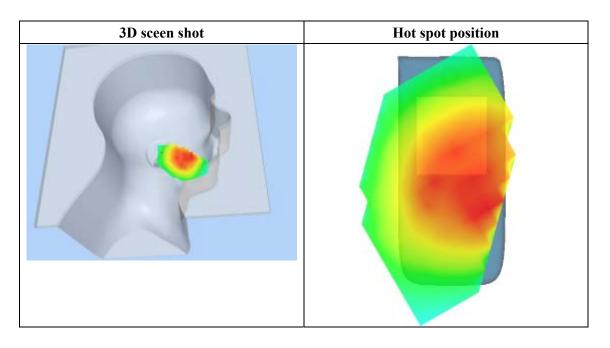


Maximum location: X=-62.00, Y=-17.00

SAR 10g (W/Kg)	0.264520		
SAR 1g (W/Kg)	0.401454		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3673	0.2247	0.1744	0.1294	0.1008	0.0748
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 39 seconds

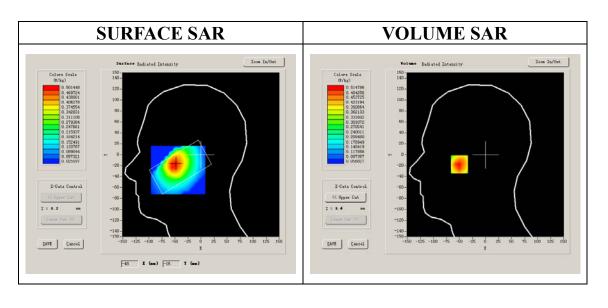
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Cheek		
Band	GSM850		
Channels	High		
Signal	GSM		

B. SAR Measurement Results

Higher Band SAR (Channel 251):

er Bana Stiff (Chamier 251).				
Frequency (MHz)	848.799988			
Relative permittivity (real part)	41.675999			
Relative permittivity	18.967199			
Conductivity (S/m)	0.894409			
Power drift (%)	0.300000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

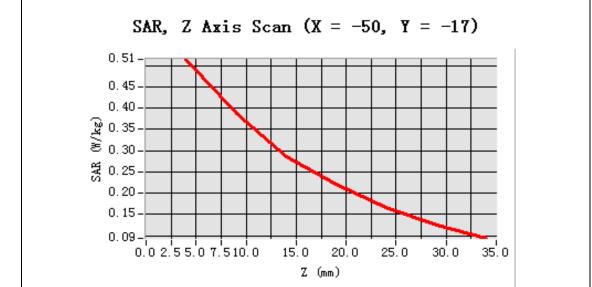


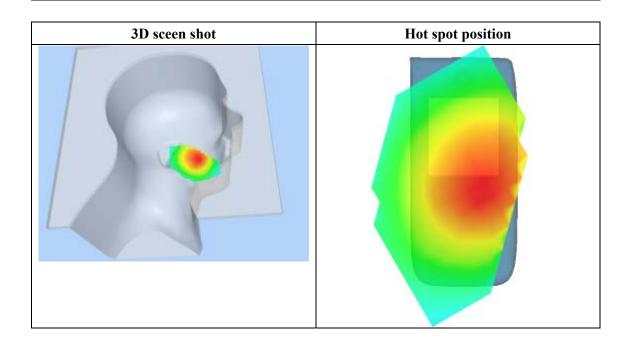


Maximum location: X=-50.00, Y=-17.00

SAR 10g (W/Kg)	0.345415		
SAR 1g (W/Kg)	0.497948		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5148	0.3864	0.2855	0.2209	0.1673	0.1248
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 30 seconds

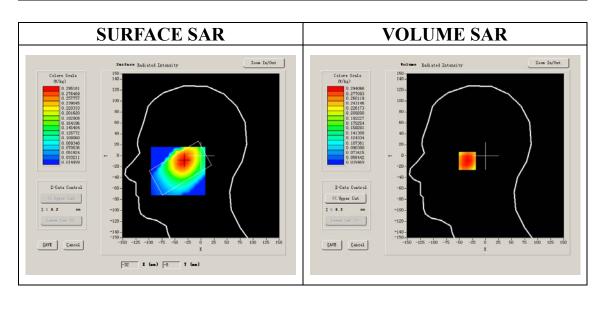
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Tilt		
Band	GSM850		
Channels	Low		
Signal	GSM		

B. SAR Measurement Results

Lower Band SAR (Channel 128):

() () () () () () () () () ()				
Frequency (MHz)	824.200012			
Relative permittivity (real part)	41.790001			
Relative permittivity	18.926250			
Conductivity (S/m)	0.866612			
Power drift (%)	-0.250000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

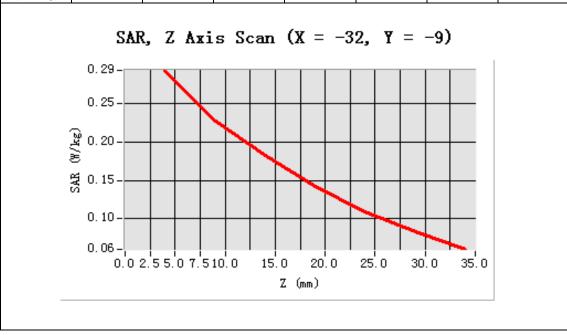


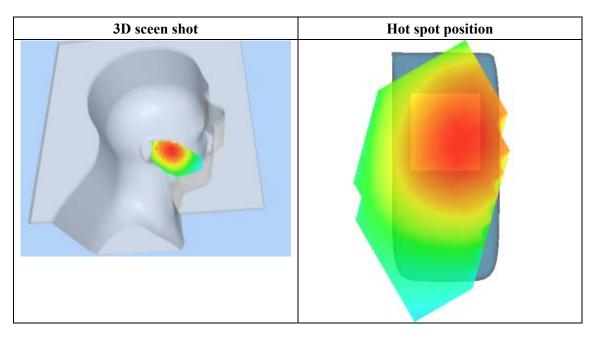


Maximum location: X=-32.00, Y=-9.00

SAR 10g (W/Kg)	0.212822		
SAR 1g (W/Kg)	0.286100		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2941	0.2283	0.1834	0.1426	0.1096	0.0830
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 27 seconds

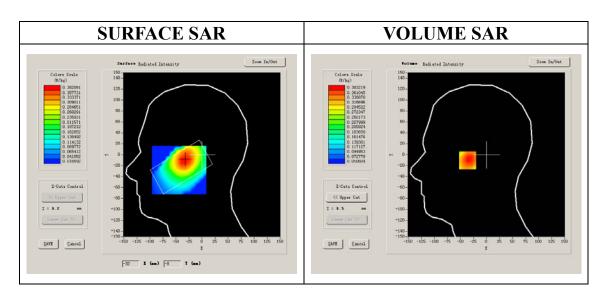
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Tilt		
Band	GSM850		
Channels	Middle		
Signal	GSM		

B. SAR Measurement Results

Middle Band SAR (Channel 190):

<u> </u>				
Frequency (MHz)	836.599976			
Relative permittivity (real part)	40.669998			
Relative permittivity	19.120001			
Conductivity (S/m)	0.888655			
Power drift (%)	-0.450000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

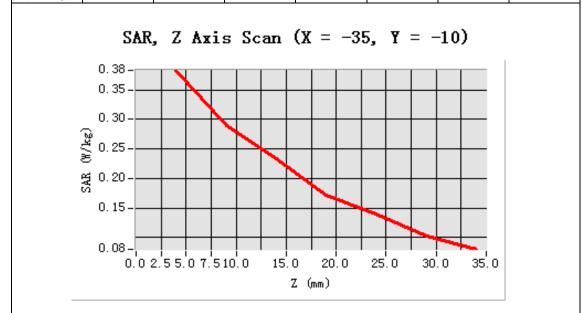


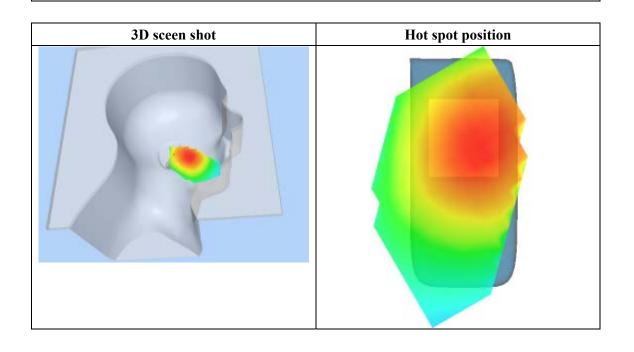


Maximum location: X=-35.00, Y=-10.00

SAR 10g (W/Kg)	0.272013		
SAR 1g (W/Kg)	0.375232		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3832	0.2901	0.2334	0.1723	0.1392	0.1024
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 29 seconds

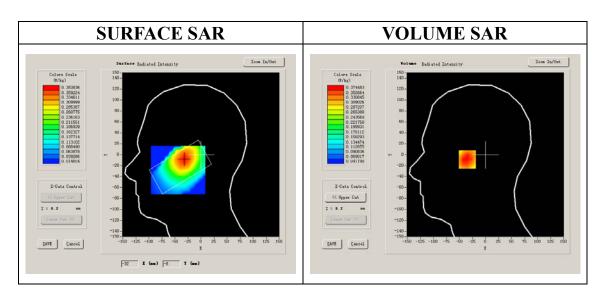
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Tilt		
Band	GSM850		
Channels	High		
Signal	GSM		

B. SAR Measurement Results

Higher Band SAR (Channel 251):

er Bana Stiff (Chamier 251).				
Frequency (MHz)	848.799988			
Relative permittivity (real part)	41.675999			
Relative permittivity	18.967199			
Conductivity (S/m)	0.894409			
Power drift (%)	0.910000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

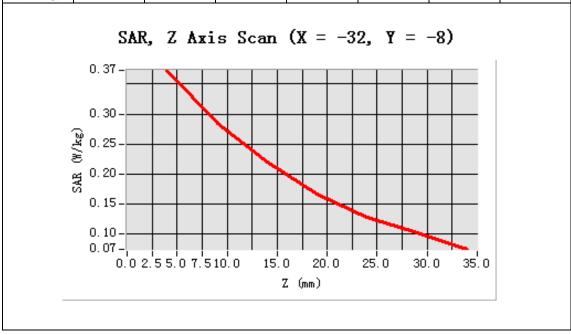


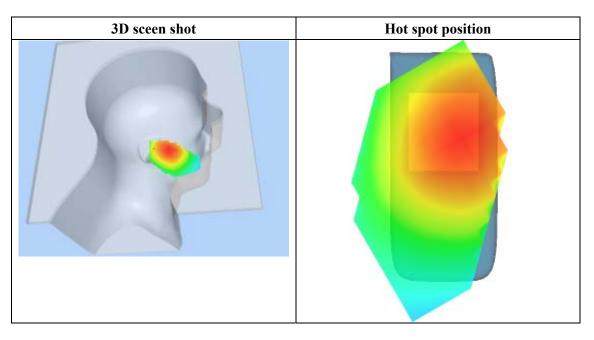


Maximum location: X=-32.00, Y=-8.00

SAR 10g (W/Kg)	0.263579		
SAR 1g (W/Kg)	0.365026		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3729	0.2845	0.2193	0.1672	0.1284	0.1019
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 6 seconds

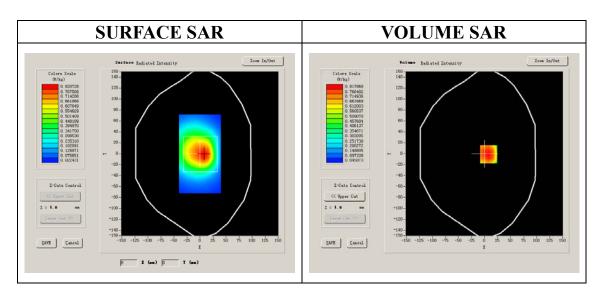
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Low
Signal	GSM

B. SAR Measurement Results

Lower Band SAR (Channel 128):

or Bund Britt (Chamier 120).				
Frequency (MHz)	824.200012			
Relative permittivity (real part)	54.116001			
Relative permittivity	21.284550			
Conductivity (S/m)	0.974596			
Power drift (%)	1.450000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

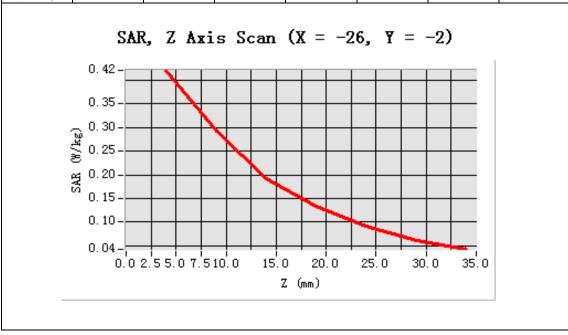


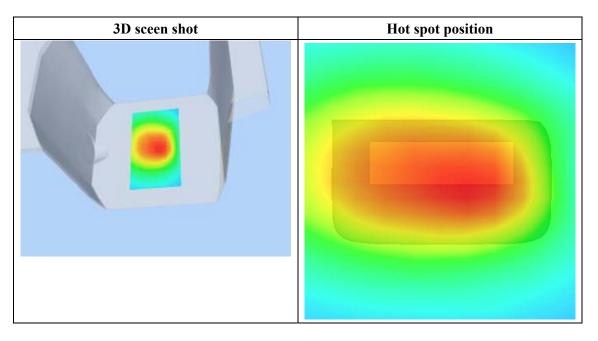


Maximum location: X=8.00, Y=-1.00

SAR 10g (W/Kg)	0.245741		
SAR 1g (W/Kg)	0.405247		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4522	0.2182	0.1596	0.0935	0.0489	0.0307
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 6 seconds

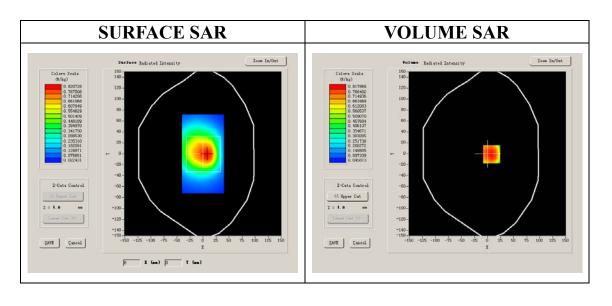
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM850		
Channels	Low		
Signal	GPRS		

B. SAR Measurement Results

Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012			
Relative permittivity (real part)	54.116001			
Relative permittivity	21.284550			
Conductivity (S/m)	0.974596			
Power drift (%)	1.450000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:2			

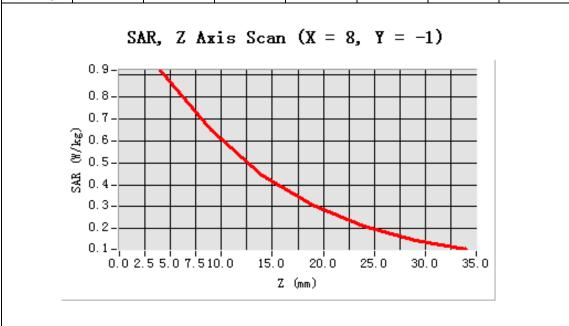


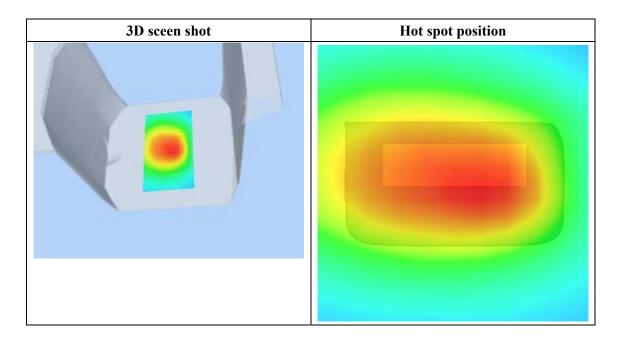


Maximum location: X=8.00, Y=-1.00

SAR 10g (W/Kg)	0.602385		
SAR 1g (W/Kg)	0.892817		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.9198	0.6495	0.4427	0.3078	0.2126	0.1485
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 6 seconds

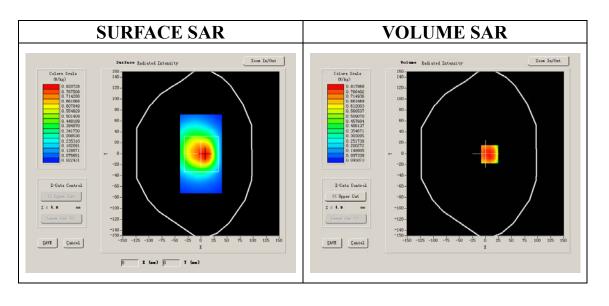
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM850		
Channels	Low		
Signal	EDGE		

B. SAR Measurement Results

Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012			
Relative permittivity (real part)	54.116001			
Relative permittivity	21.284550			
Conductivity (S/m)	0.974596			
Power drift (%)	1.450000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:2			

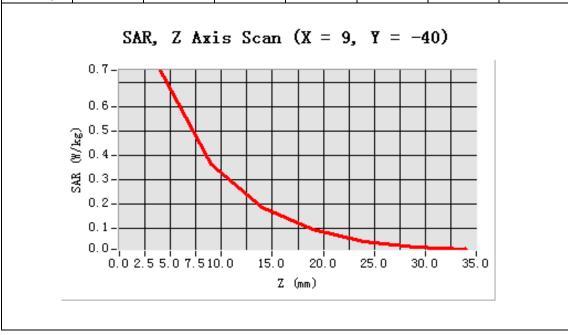


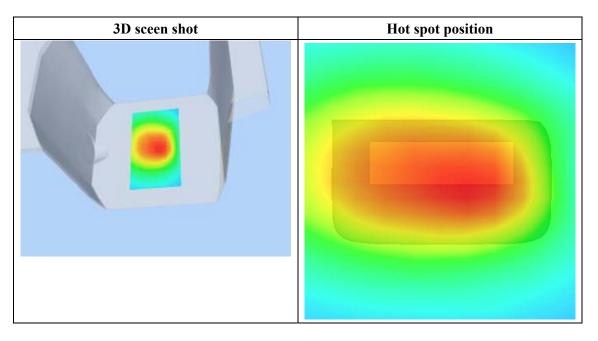


Maximum location: X=8.00, Y=-1.00

SAR 10g (W/Kg)	0.487332		
SAR 1g (W/Kg)	0.787357		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7289	0.3617	0.1862	0.0914	0.0449	0.0218
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 6 seconds

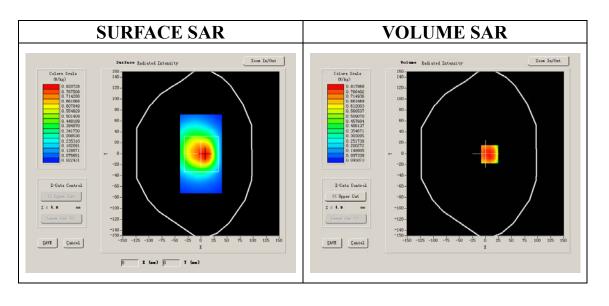
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM850		
Channels	Low		
Signal	EDGE		

B. SAR Measurement Results

Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012			
Relative permittivity (real part)	54.116001			
Relative permittivity	21.284550			
Conductivity (S/m)	0.974596			
Power drift (%)	1.450000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:2			

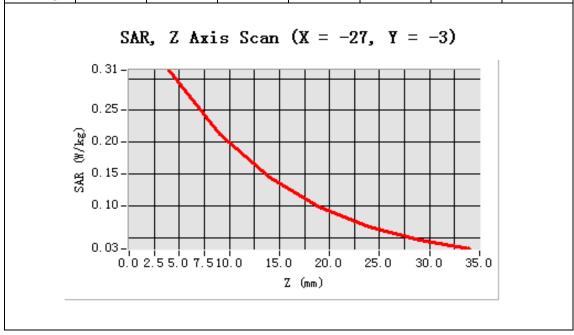


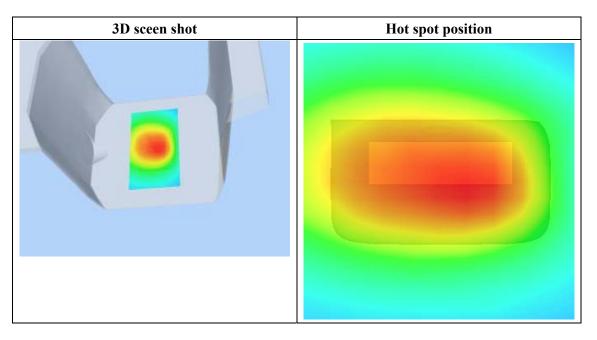


Maximum location: X=8.00, Y=-1.00

SAR 10g (W/Kg)	0.214735		
SAR 1g (W/Kg)	0.300717		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3105	0.2175	0.3389	0.1193	0.1038	0.0214
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 6 seconds

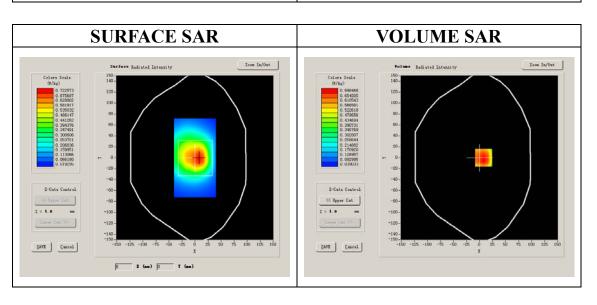
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM850		
Channels	Middle		
Signal	GSM		

B. SAR Measurement Results

Middle Band SAR (Channel 190):

ire Build Stiff (Chaimer 190).				
Frequency (MHz)	836.599976			
Relative permittivity (real part)	55.709999			
Relative permittivity	21.709999			
Conductivity (S/m)	1.009033			
Power drift (%)	-0.640000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

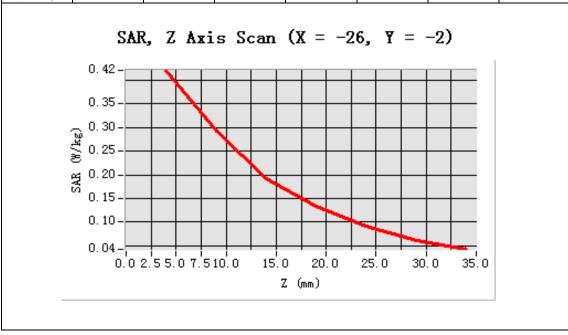


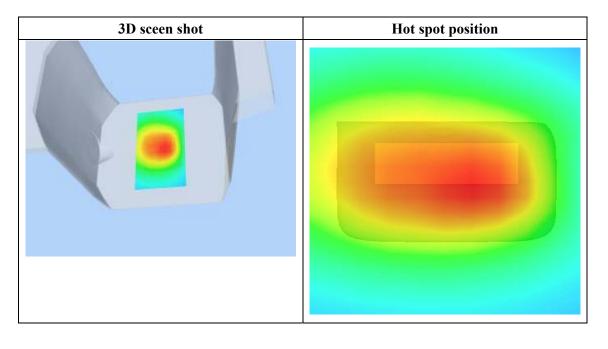


Maximum location: X=8.00, Y=0.00

SAR 10g (W/Kg)	0.225745		
SAR 1g (W/Kg)	0.426878		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3531	0.2469	0.1760	0.0628	0.0443	0.0273
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 6 seconds

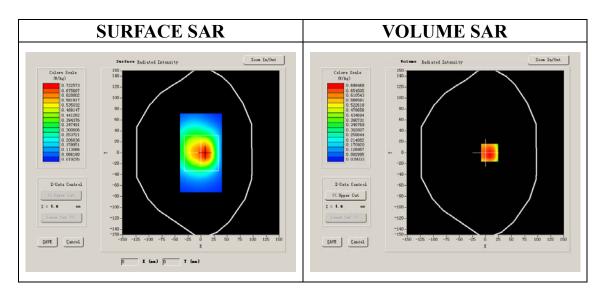
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM850		
Channels	Middle		
Signal	GPRS		

B. SAR Measurement Results

Middle Band SAR (Channel 190):

ire Build Stiff (Chaimer 190).				
Frequency (MHz)	836.599976			
Relative permittivity (real part)	55.709999			
Relative permittivity	21.709999			
Conductivity (S/m)	1.009033			
Power drift (%)	-0.640000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:2			

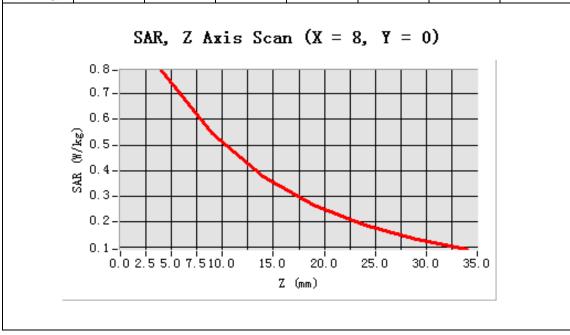


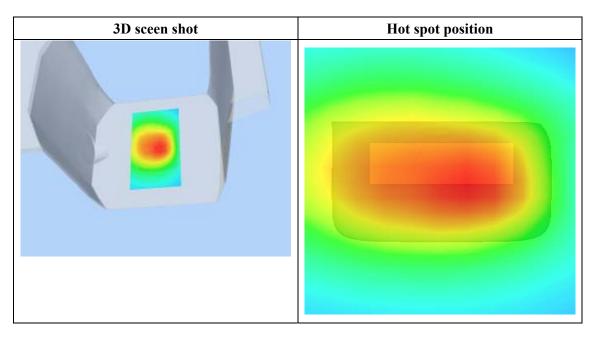


Maximum location: X=8.00, Y=0.00

SAR 10g (W/Kg)	0.517218		
SAR 1g (W/Kg)	0.777229		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7931	0.5469	0.3760	0.2628	0.1843	0.1273
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 6 seconds

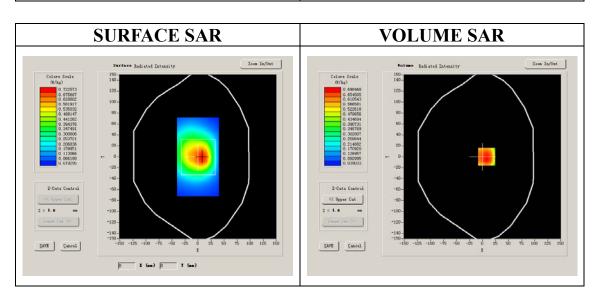
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM850		
Channels	Middle		
Signal	EDGE		

B. SAR Measurement Results

Middle Band SAR (Channel 190):

ire Build Stiff (Chaimer 190).				
Frequency (MHz)	836.599976			
Relative permittivity (real part)	55.709999			
Relative permittivity	21.709999			
Conductivity (S/m)	1.009033			
Power drift (%)	-0.640000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:2			

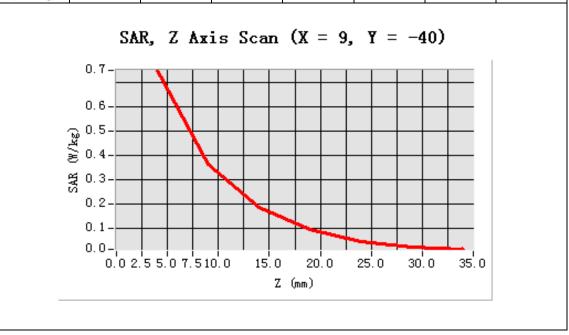


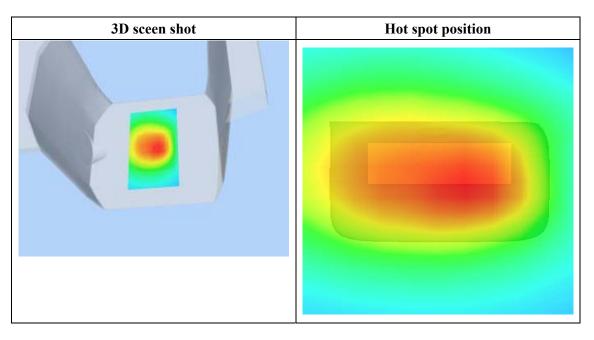


Maximum location: X=8.00, Y=0.00

SAR 10g (W/Kg)	0.485277		
SAR 1g (W/Kg)	0.724375		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7731	0.5439	0.3560	0.2628	0.1843	0.1273
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 5 seconds

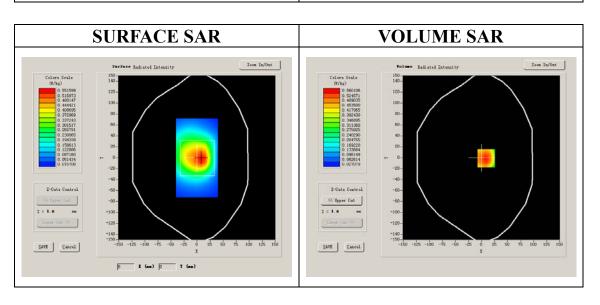
A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position	Body			
Band	GSM850			
Channels	High			
Signal	GSM			

B. SAR Measurement Results

Higher Band SAR (Channel 251):

er Bana Stiff (Chamier 251).				
Frequency (MHz)	848.799988			
Relative permittivity (real part)	54.014999			
Relative permittivity	21.332850			
Conductivity (S/m)	1.005962			
Power drift (%)	-0.010000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

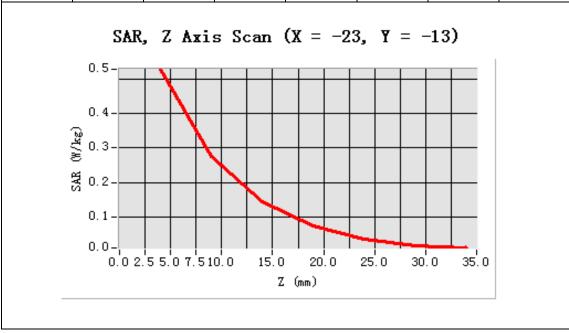


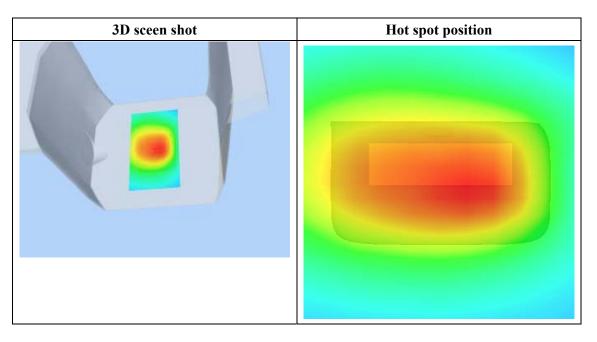


Maximum location: X=9.00, Y=-1.00

SAR 10g (W/Kg)	0.221509		
SAR 1g (W/Kg)	0.486437		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5286	0.2769	0.1441	0.0751	0.0369	0.0186
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 5 seconds

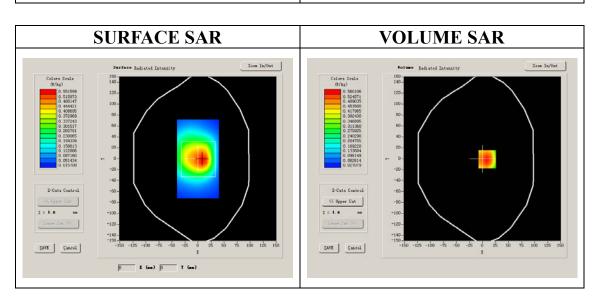
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

Higher Band SAR (Channel 251):

<u> </u>	
Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-0.010000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

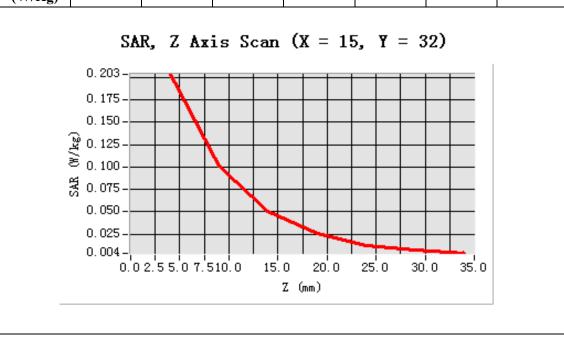


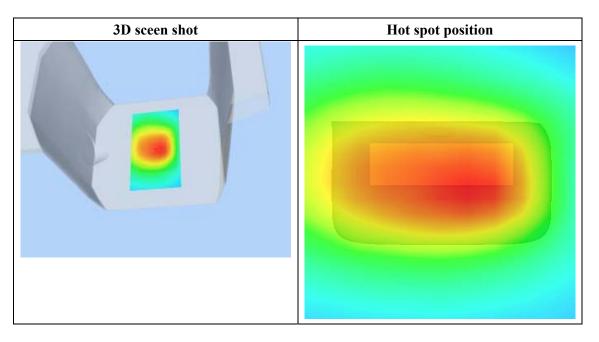


Maximum location: X=9.00, Y=-1.00

SAR 10g (W/Kg)	0.180169		
SAR 1g (W/Kg)	0.211034		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2034	0.1015	0.0511	0.0258	0.0127	0.0068
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 5 seconds

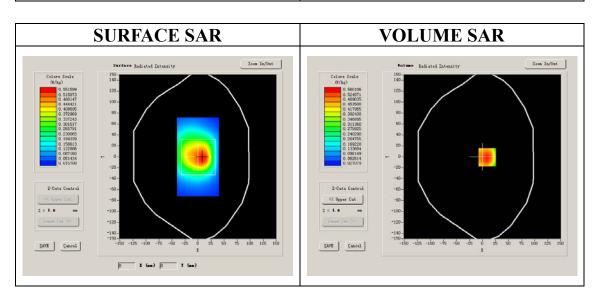
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GPRS

B. SAR Measurement Results

Higher Band SAR (Channel 251):

er Bana Stiff (Chamier 251).	
Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-0.010000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

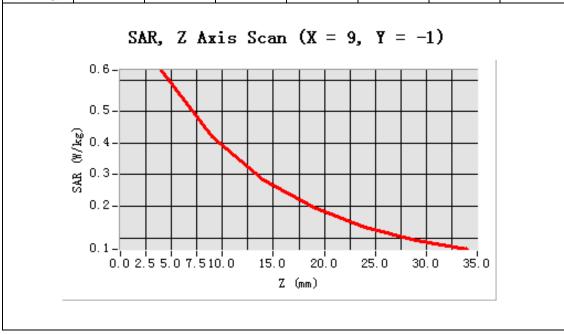


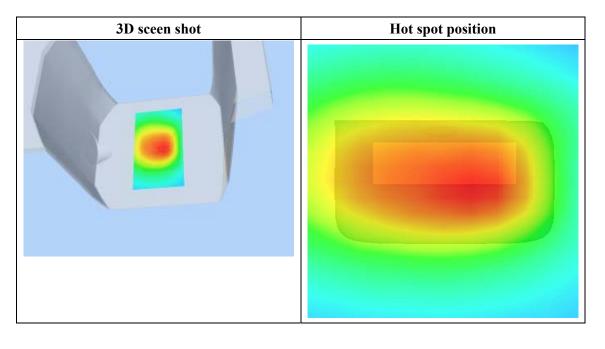


Maximum location: X=9.00, Y=-1.00

SAR 10g (W/Kg)	0.400169
SAR 1g (W/Kg)	0.608634

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6300	0.4209	0.2835	0.1954	0.1338	0.0924
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 5 seconds

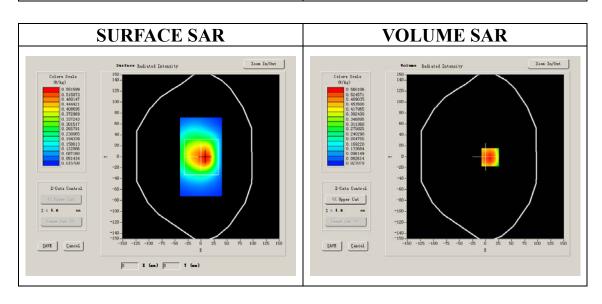
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM850		
Channels	High		
Signal	GPRS		

B. SAR Measurement Results

Higher Band SAR (Channel 251):

er Bana Stiff (Chamier 251).	
Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-0.010000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

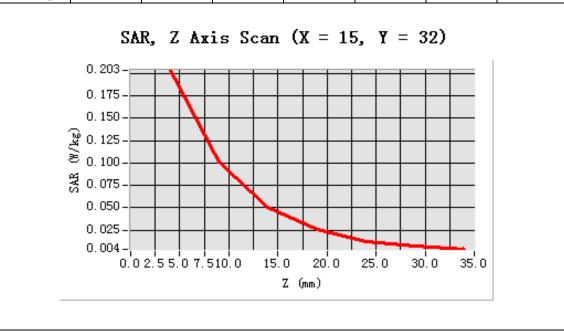


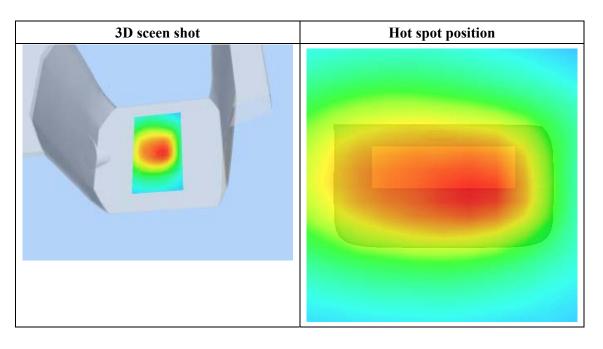


Maximum location: X=9.00, Y=-1.00

SAR 10g (W/Kg)	0.185784		
SAR 1g (W/Kg)	0.216437		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2134	0.1215	0.0711	0.0558	0.0227	0.0168
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 5 seconds

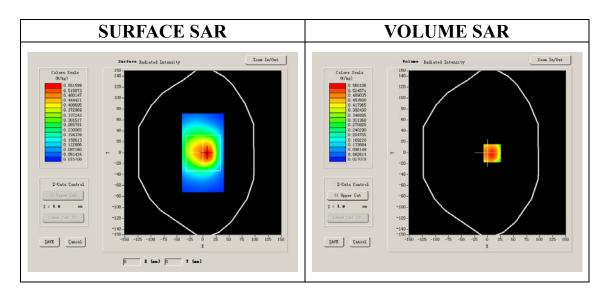
A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position	Body			
Band	GSM850			
Channels	High			
Signal	EDGE			

B. SAR Measurement Results

Higher Band SAR (Channel 251):

<u> </u>	
Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-0.010000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

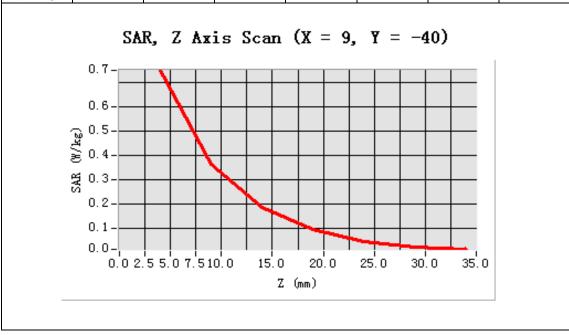


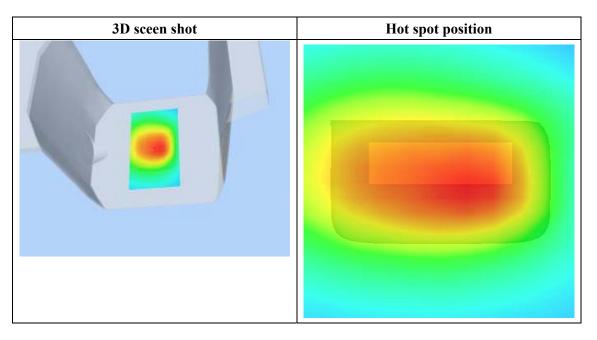


Maximum location: X=9.00, Y=-1.00

SAR 10g (W/Kg)	0.425754		
SAR 1g (W/Kg)	0.752852		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7300	0.4809	0.4835	0.1954	0.1338	0.0924
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 56 seconds

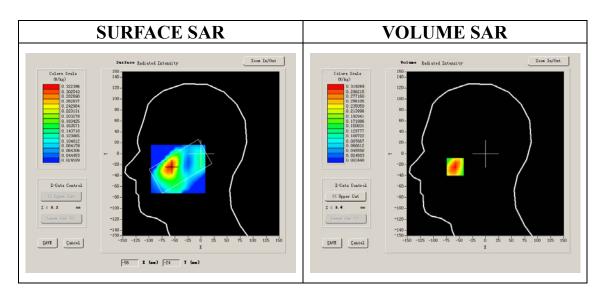
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Cheek		
Band	GSM1900		
Channels	Low		
Signal	GSM		

B. SAR Measurement Results

Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951		
Relative permittivity (real part)	39.993999		
Relative permittivity	12.991650		
Conductivity (S/m)	1.335397		
Power drift (%)	0.070000		
Ambient Temperature:	22.2°C		
Liquid Temperature:	21.8C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		

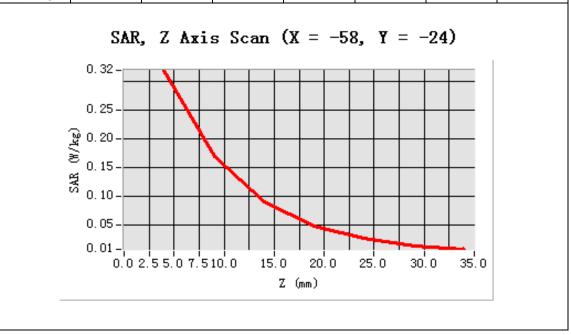


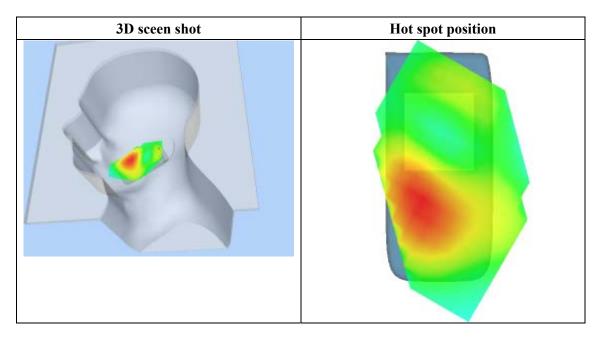


Maximum location: X=-58.00, Y=-24.00

SAR 10g (W/Kg)	0.164003		
SAR 1g (W/Kg)	0.303685		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3193	0.1692	0.0901	0.0470	0.0256	0.0133
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 58 seconds

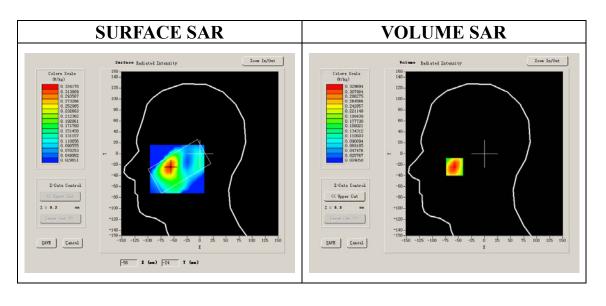
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Cheek			
Band	GSM1900			
Channels	Middle			
Signal	GSM			

B. SAR Measurement Results

Middle Band SAR (Channel 661):

ile Build Stiff (Chaimer 661).				
Frequency (MHz)	1880.000000			
Relative permittivity (real part)	38.509998			
Relative permittivity	13.750000			
Conductivity (S/m)	1.436111			
Power drift (%)	0.300000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:8			

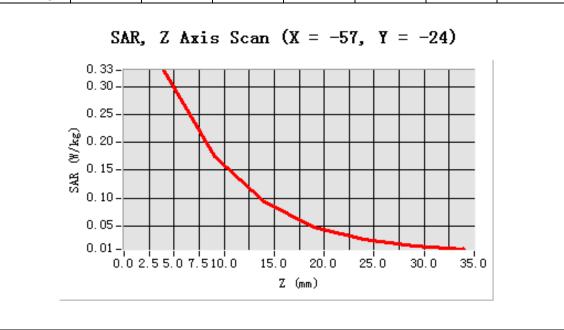


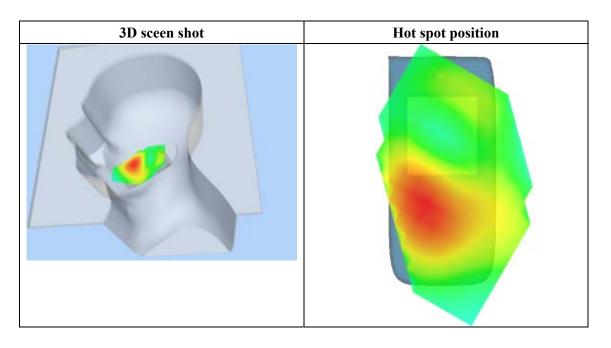


Maximum location: X=-57.00, Y=-24.00

SAR 10g (W/Kg)	0.169557		
SAR 1g (W/Kg)	0.313743		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3297	0.1748	0.0932	0.0475	0.0260	0.0139
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 57 seconds

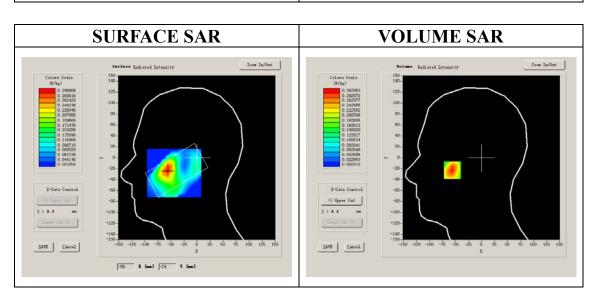
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Cheek			
Band	GSM1900			
Channels	High			
Signal	Signal GSM			

B. SAR Measurement Results

Higher Band SAR (Channel 810):

er Bana Britt (Chamier 616).				
Frequency (MHz)	1909.800049			
Relative permittivity (real part)	39.929001			
Relative permittivity	13.156500			
Conductivity (S/m)	1.395905			
Power drift (%)	-0.360000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:8			

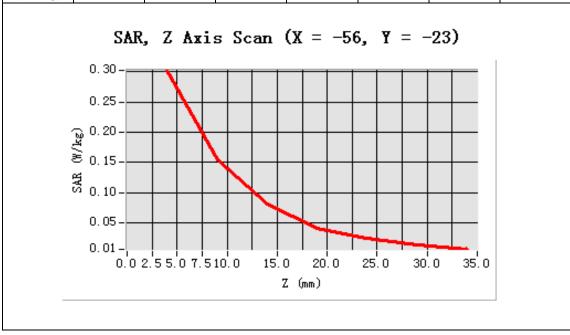


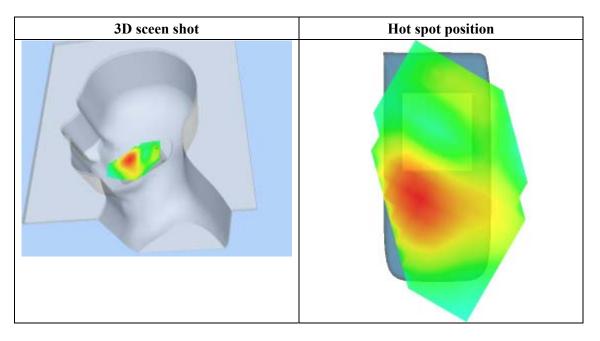


Maximum location: X=-56.00, Y=-23.00

SAR 10g (W/Kg)	0.152421		
SAR 1g (W/Kg)	0.286719		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3026	0.1535	0.0809	0.0413	0.0233	0.0122
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 22 seconds

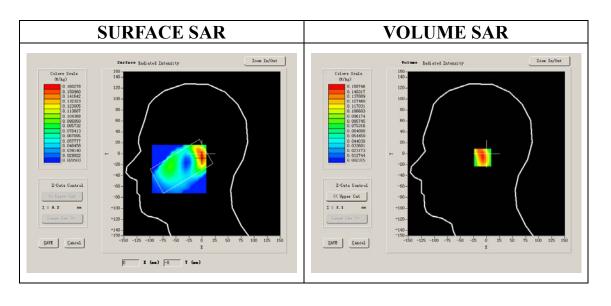
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Tilt		
Band	GSM1900		
Channels	Low		
Signal	GSM		

B. SAR Measurement Results

Lower Band SAR (Channel 512):

<u> </u>				
Frequency (MHz)	1850.199951			
Relative permittivity (real part)	39.993999			
Relative permittivity	12.991650			
Conductivity (S/m)	1.335397			
Power drift (%)	0.670000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:8			

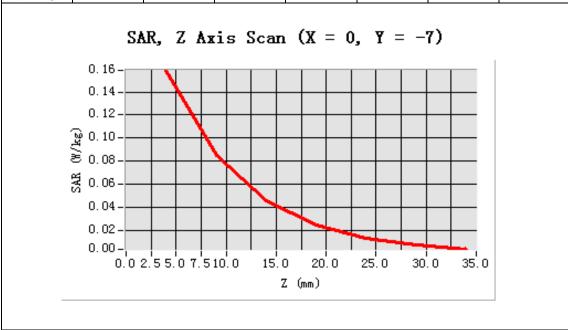


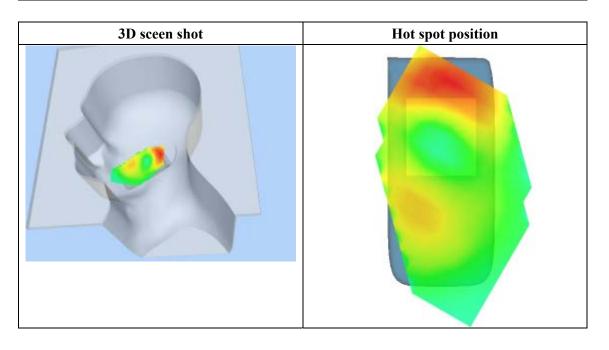


Maximum location: X=0.00, Y=-7.00

SAR 10g (W/Kg)	0.081482		
SAR 1g (W/Kg)	0.150977		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1587	0.0850	0.0461	0.0247	0.0128	0.0078
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 22 seconds

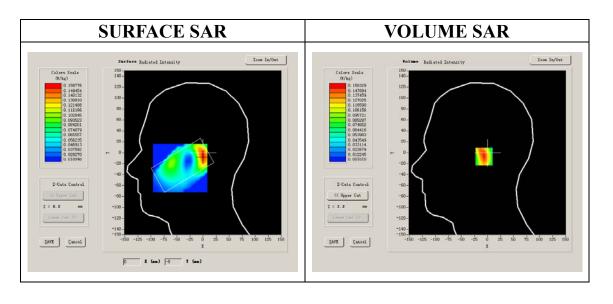
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Tilt			
Band	GSM1900			
Channels	Middle			
Signal	Signal GSM			

B. SAR Measurement Results

Middle Band SAR (Channel 661):

() = 0.110.00 () = 0.100.00 () = 0.000.00 () = 0	
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power drift (%)	-0.910000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

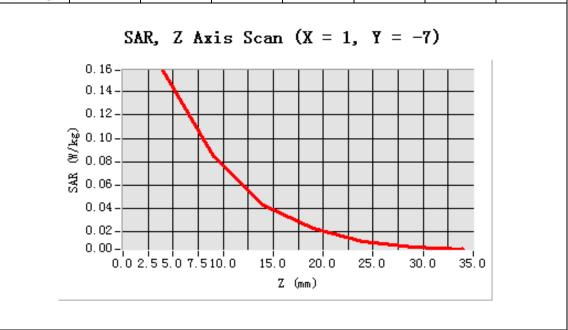


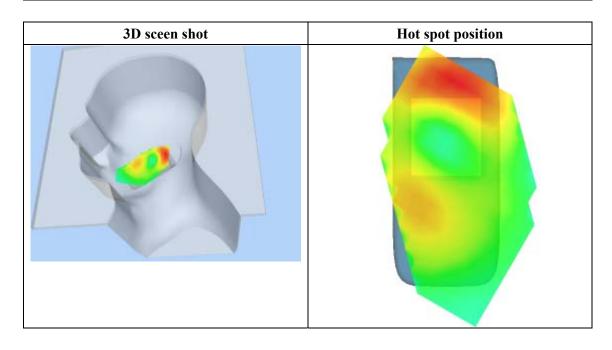


Maximum location: X=1.00, Y=-7.00

SAR 10g (W/Kg)	0.079892		
SAR 1g (W/Kg)	0.149904		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1583	0.0841	0.0432	0.0227	0.0115	0.0069
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 21 seconds

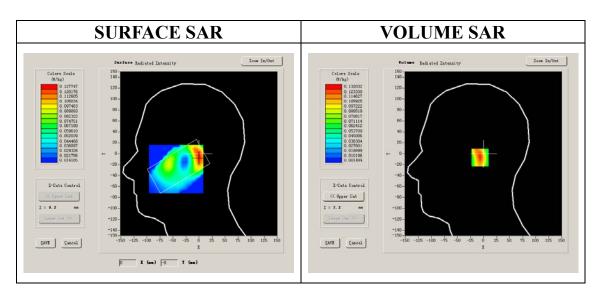
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Tilt			
Band	GSM1900			
Channels	High			
Signal GSM				

B. SAR Measurement Results

Higher Band SAR (Channel 810):

er Bana Britt (Chamier 616).				
Frequency (MHz)	1909.800049			
Relative permittivity (real part)	39.929001			
Relative permittivity	13.156500			
Conductivity (S/m)	1.395905			
Power drift (%)	0.690000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:8			

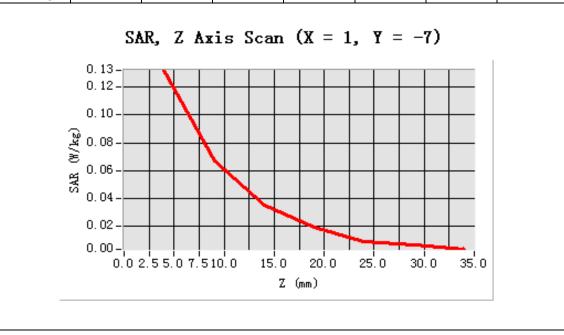


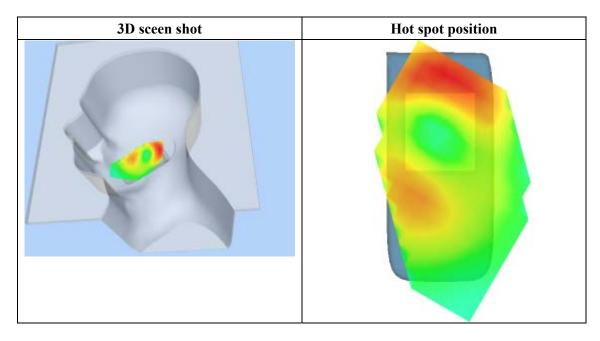


Maximum location: X=1.00, Y=-7.00

SAR 10g (W/Kg)	0.065169		
SAR 1g (W/Kg)	0.124144		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1320	0.0667	0.0350	0.0191	0.0090	0.0064
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 50 seconds

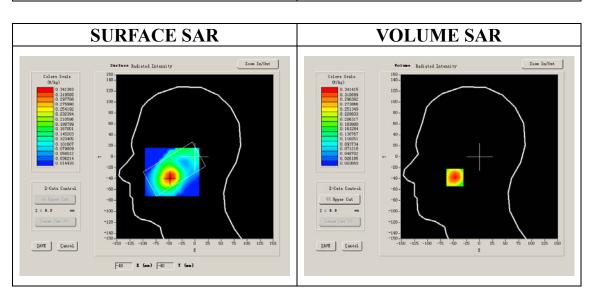
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Cheek			
Band	GSM1900			
Channels	Low			
Signal GSM				

B. SAR Measurement Results

Lower Band SAR (Channel 512):

Build Diffit (Chaimer 312).				
Frequency (MHz)	1850.199951			
Relative permittivity (real part)	39.993999			
Relative permittivity	12.991650			
Conductivity (S/m)	1.335397			
Power drift (%)	-0.590000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:8			

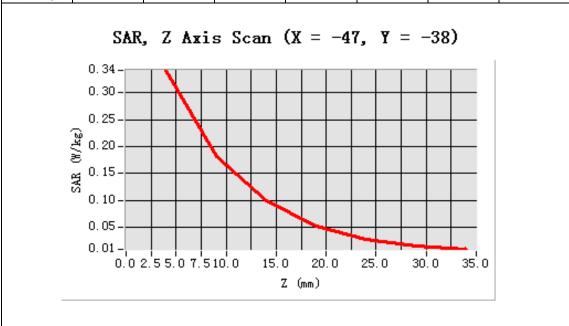


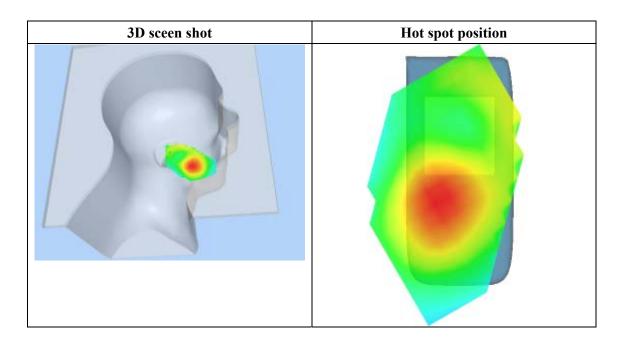


Maximum location: X=-47.00, Y=-38.00

SAR 10g (W/Kg)	0.177031		
SAR 1g (W/Kg)	0.325696		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3414	0.1810	0.0983	0.0517	0.0276	0.0151
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 49 seconds

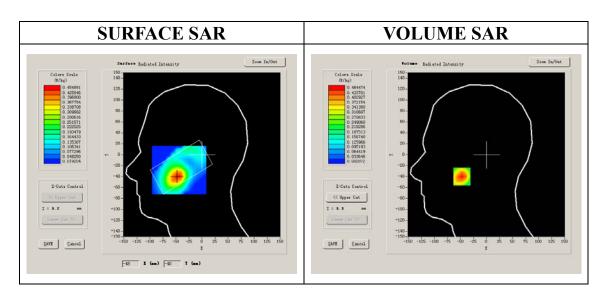
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Cheek		
Band	GSM1900		
Channels	Middle		
Signal	GSM		

B. SAR Measurement Results

Middle Band SAR (Channel 661):

it Built Still (Chumilet Col).			
Frequency (MHz)	1880.000000		
Relative permittivity (real part)	38.509998		
Relative permittivity	13.750000		
Conductivity (S/m)	1.436111		
Power drift (%)	0.410000		
Ambient Temperature:	22.2°C		
Liquid Temperature:	21.8C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		

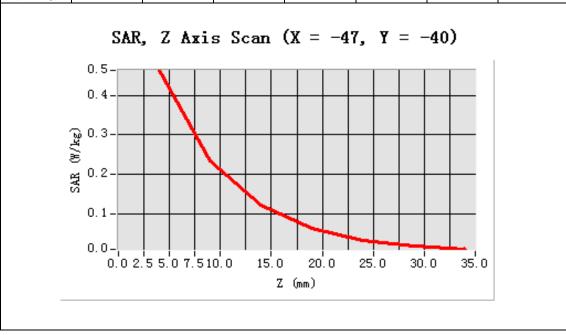


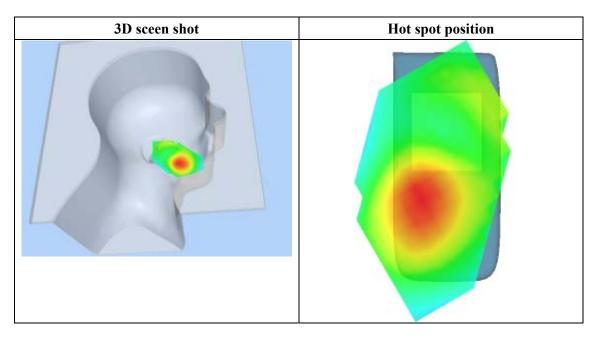


Maximum location: X=-47.00, Y=-40.00

SAR 10g (W/Kg)	0.232891		
SAR 1g (W/Kg)	0.442165		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4645	0.2328	0.1221	0.0628	0.0327	0.0177
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 51 seconds

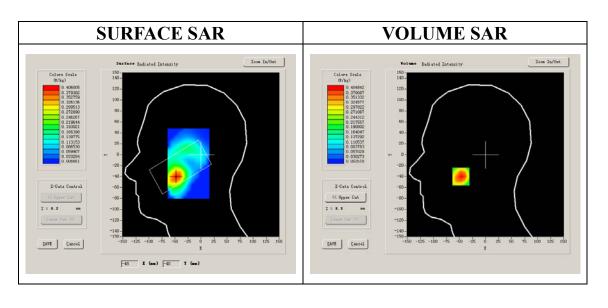
A. Experimental conditions.

Phantom File	zinf3.txt		
Phantom	Left head		
Device Position	Cheek		
Band	GSM1900		
Channels	High		
Signal	GSM		

B. SAR Measurement Results

Higher Band SAR (Channel 810):

er Bana Britt (Chamier 616).				
Frequency (MHz)	1909.800049			
Relative permittivity (real part)	39.929001			
Relative permittivity	13.156500			
Conductivity (S/m)	1.395905			
Power drift (%)	2.030000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:8			

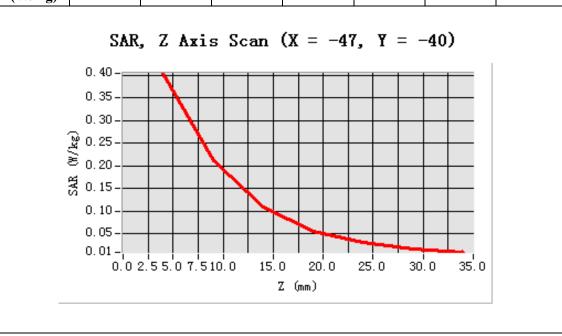


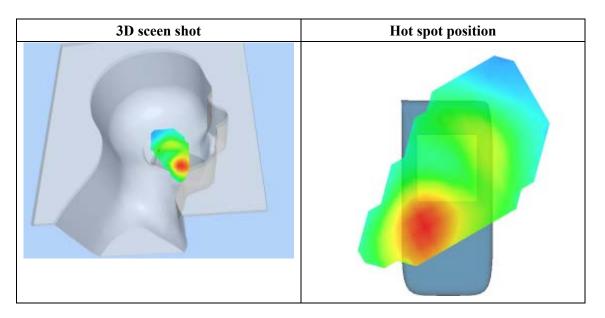


Maximum location: X=-47.00, Y=-40.00

SAR 10g (W/Kg)	0.204983		
SAR 1g (W/Kg)	0.387770		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4048	0.2113	0.1085	0.0561	0.0298	0.0155
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 20 seconds

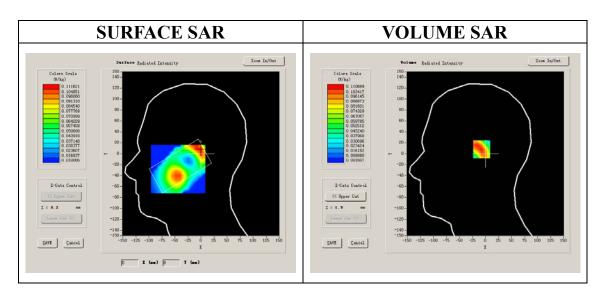
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Tilt			
Band	GSM1900			
Channels	Low			
Signal	GSM			

B. SAR Measurement Results

Lower Band SAR (Channel 512):

or Build Britt (Chamier 512):				
Frequency (MHz)	1850.199951			
Relative permittivity (real part)	39.993999			
Relative permittivity	12.991650			
Conductivity (S/m)	1.335397			
Power drift (%)	-0.630000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:8			

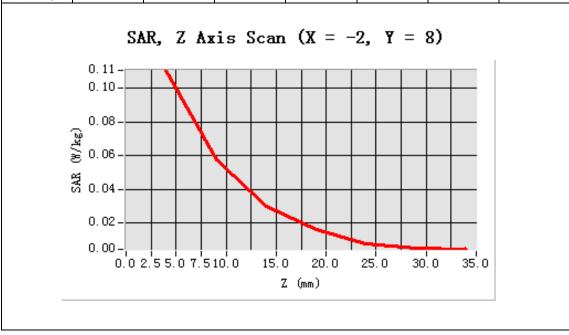


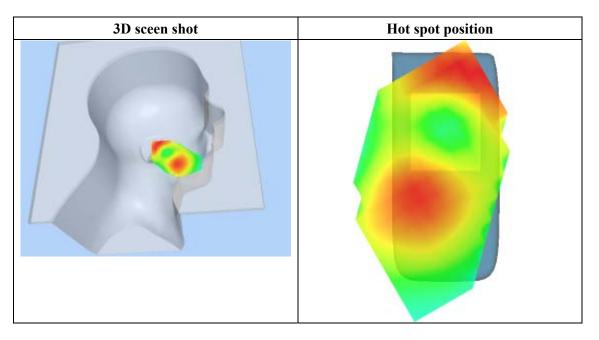


Maximum location: X=-2.00, Y=8.00

SAR 10g (W/Kg)	0.056323		
SAR 1g (W/Kg)	0.105504		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1107	0.0576	0.0300	0.0158	0.0076	0.0052
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 20 seconds

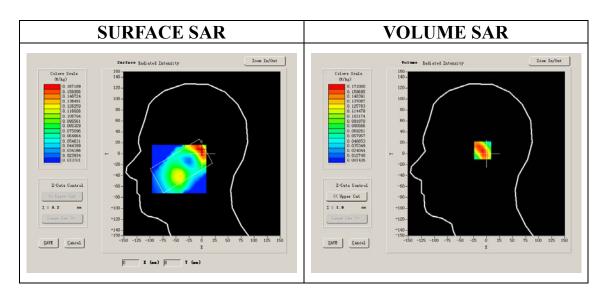
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Tilt			
Band	GSM1900			
Channels	Middle			
Signal	GSM			

B. SAR Measurement Results

Middle Band SAR (Channel 661):

()	
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power drift (%)	1.930000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

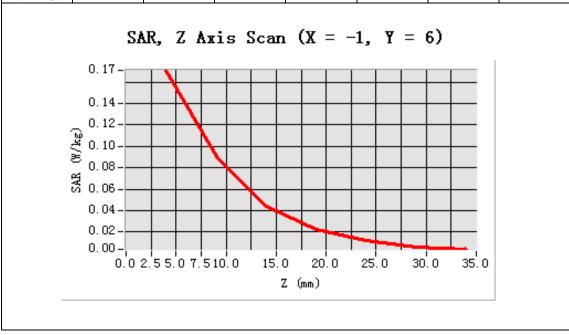


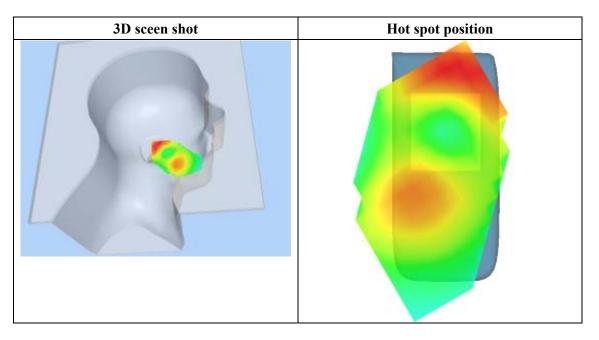


Maximum location: X=-1.00, Y=6.00

SAR 10g (W/Kg)	0.085624		
SAR 1g (W/Kg)	0.163561		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1710	0.0904	0.0440	0.0228	0.0118	0.0061
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 7 minutes 22 seconds

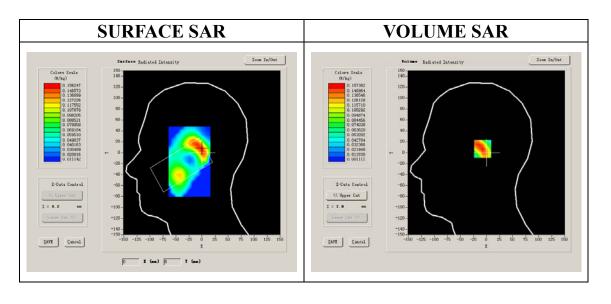
A. Experimental conditions.

Phantom File	zinf3.txt		
Phantom	Left head		
Device Position	Tilt		
Band	GSM1900		
Channels	High		
Signal	GSM		

B. SAR Measurement Results

Higher Band SAR (Channel 810):

er Bana Britt (Chamier 616).				
Frequency (MHz)	1909.800049			
Relative permittivity (real part)	39.929001			
Relative permittivity	13.156500			
Conductivity (S/m)	1.395905			
Power drift (%)	-1.330000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:8			

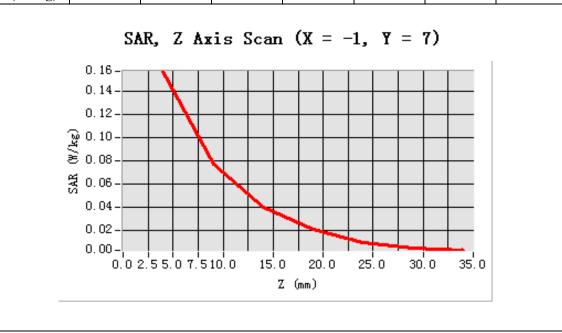


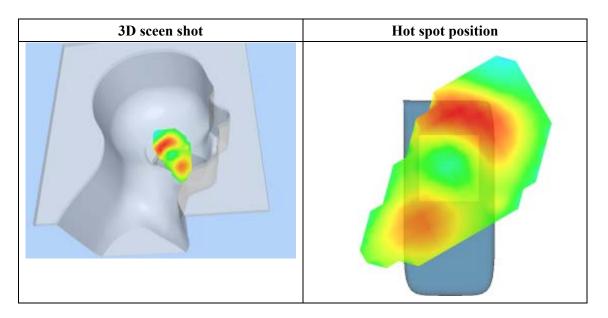


Maximum location: X=-1.00, Y=7.00

SAR 10g (W/Kg)	0.077824		
SAR 1g (W/Kg)	0.149751		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1574	0.0778	0.0404	0.0214	0.0102	0.0051
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 7 seconds

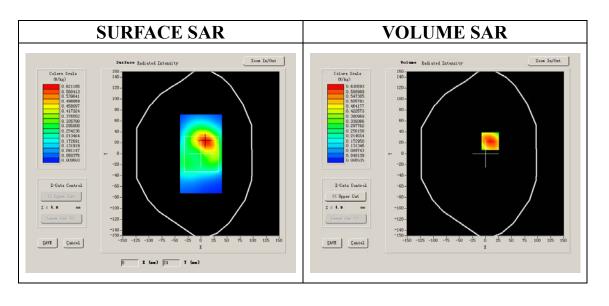
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	Low		
Signal	GSM		

B. SAR Measurement Results

Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951		
Relative permittivity (real part)	51.540001		
Relative permittivity	15.070000		
Conductivity (S/m)	1.549029		
Power drift (%)	-0.180000		
Ambient Temperature:	22.2°C		
Liquid Temperature:	21.8C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		

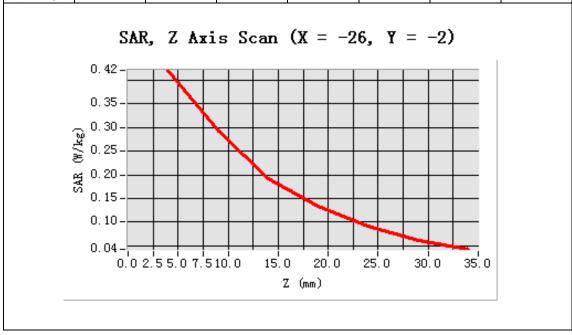


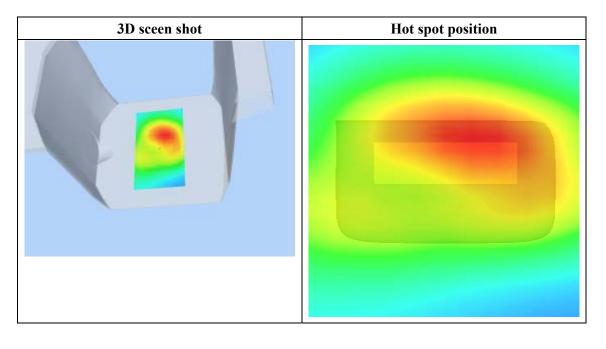


Maximum location: X=9.00, Y=23.00

SAR 10g (W/Kg)	0.227542		
SAR 1g (W/Kg)	0.392475		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3875	0.2517	0.1275	0.0837	0.0401	0.0198
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 7 seconds

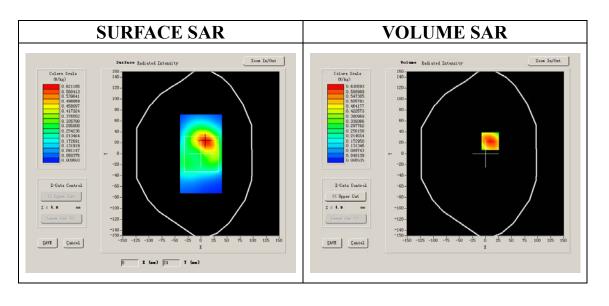
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	Low		
Signal	EDGE		

B. SAR Measurement Results

Lower Band SAR (Channel 512):

er Bund Stiff (Chamier 512).				
Frequency (MHz)	1850.199951			
Relative permittivity (real part)	51.540001			
Relative permittivity	15.070000			
Conductivity (S/m)	1.549029			
Power drift (%)	-0.180000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:2			

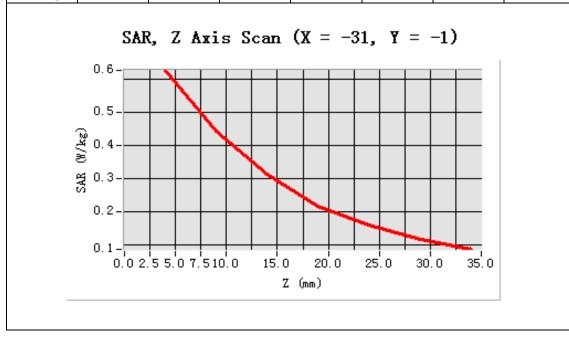


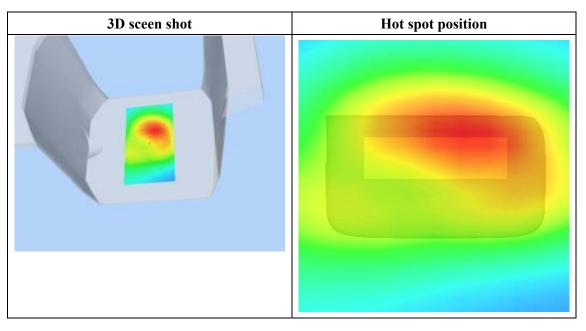


Maximum location: X=9.00, Y=23.00

SAR 10g (W/Kg)	0.357466		
SAR 1g (W/Kg)	0.603574		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6261	0.4442	0.3119	0.2168	0.1601	0.1152
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 7 seconds

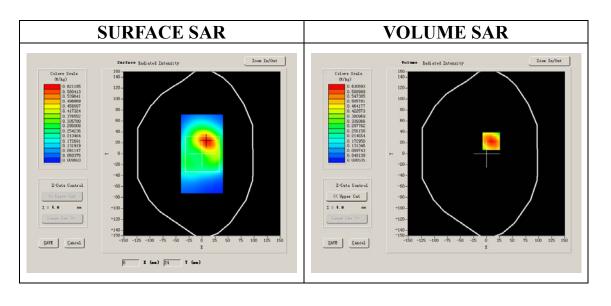
A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position	Body			
Band	GSM1900			
Channels	Low			
Signal	GPRS)			

B. SAR Measurement Results

Lower Band SAR (Channel 512):

<u> </u>	
Frequency (MHz)	1850.199951
Relative permittivity (real part)	51.540001
Relative permittivity	15.070000
Conductivity (S/m)	1.549029
Power drift (%)	-0.180000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8C
ConvF:	40.136,34.843,38.721
Crest factor:	1:2

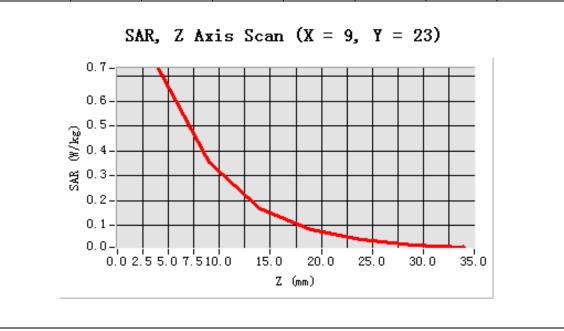


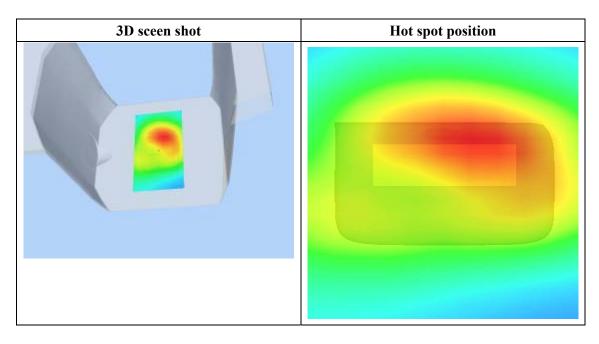


Maximum location: X=9.00, Y=23.00

SAR 10g (W/Kg)	0.373336		
SAR 1g (W/Kg)	0.703389		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7315	0.3517	0.1675	0.0837	0.0401	0.0198
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 8 seconds

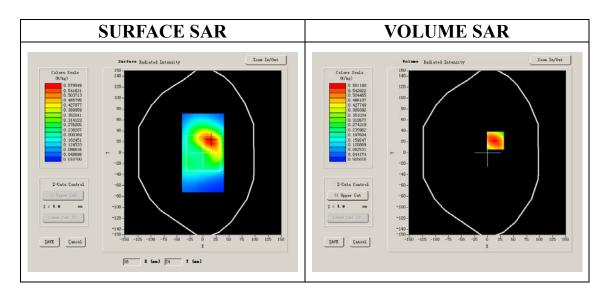
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	Middle		
Signal	GSM		

B. SAR Measurement Results

Middle Band SAR (Channel 661):

it Built Still (Chumilet Col).	
Frequency (MHz)	1880.000000
Relative permittivity (real part)	51.540001
Relative permittivity	15.070000
Conductivity (S/m)	1.573978
Power drift (%)	-1.190000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

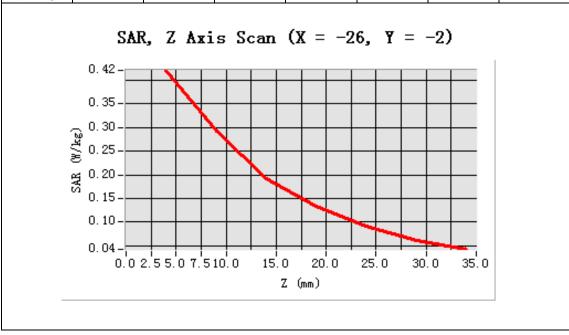


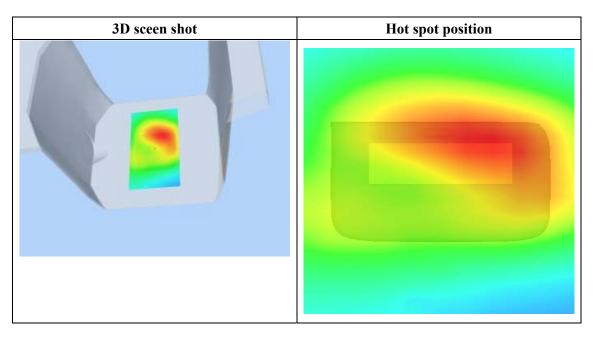


Maximum location: X=15.00, Y=22.00

SAR 10g (W/Kg)	0.224736		
SAR 1g (W/Kg)	0.377458		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3870	0.2014	0.1442	0.0694	0.0329	0.0171
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 8 seconds

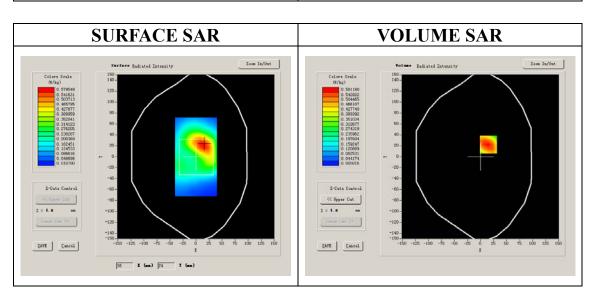
A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position	Body			
Band	GSM1900			
Channels	Middle			
Signal	GSM			

B. SAR Measurement Results

Middle Band SAR (Channel 661):

ile Balla Billt (Challier 001).	
Frequency (MHz)	1880.000000
Relative permittivity (real part)	51.540001
Relative permittivity	15.070000
Conductivity (S/m)	1.573978
Power drift (%)	-1.190000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

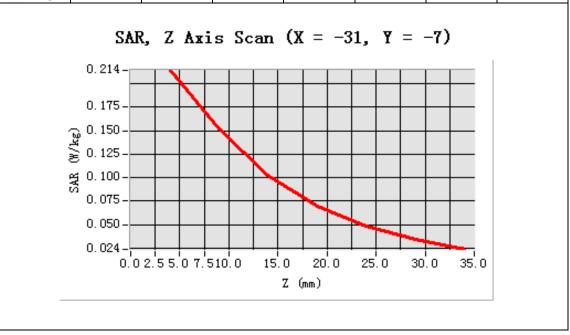


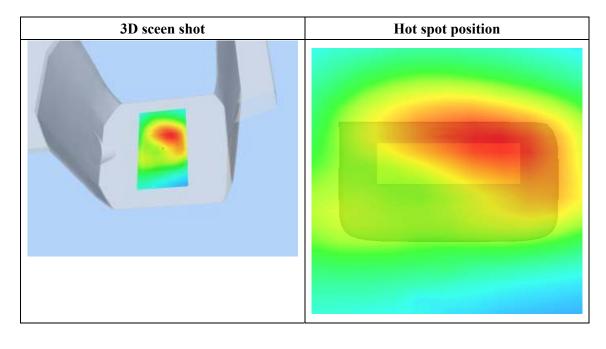


Maximum location: X=15.00, Y=22.00

SAR 10g (W/Kg)	0.104754		
SAR 1g (W/Kg)	0.195374		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2140	0.1513	0.1023	0.0696	0.0490	0.0000
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 8 seconds

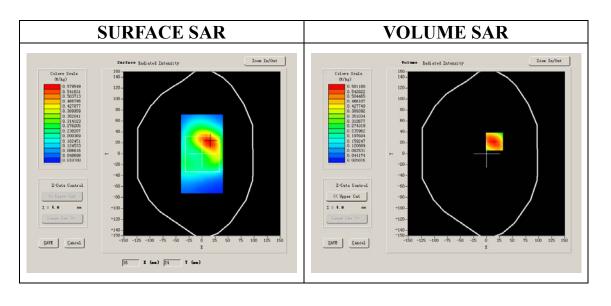
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	Middle		
Signal	EDGE		

B. SAR Measurement Results

Middle Band SAR (Channel 661):

it is the state (calculated only).				
Frequency (MHz)	1880.000000			
Relative permittivity (real part)	51.540001			
Relative permittivity	15.070000			
Conductivity (S/m)	1.573978			
Power drift (%)	-1.190000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:2			

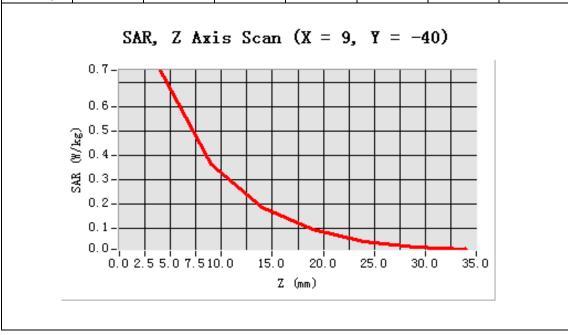


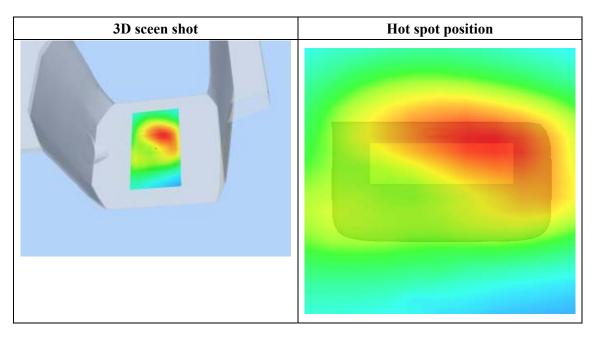


Maximum location: X=15.00, Y=22.00

SAR 10g (W/Kg)	0.435711		
SAR 1g (W/Kg)	0.716782		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6970	0.4014	0.2442	0.1694	0.0329	0.0171
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 8 seconds

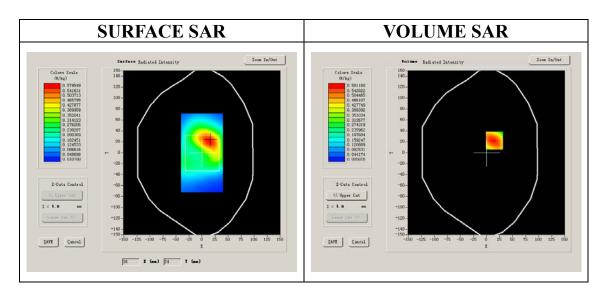
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	Middle		
Signal	EDGE		

B. SAR Measurement Results

Middle Band SAR (Channel 661):

ile Build Stiff (Chaimer 661).				
Frequency (MHz)	1880.000000			
Relative permittivity (real part)	51.540001			
Relative permittivity	15.070000			
Conductivity (S/m)	1.573978			
Power drift (%)	-1.190000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:2			

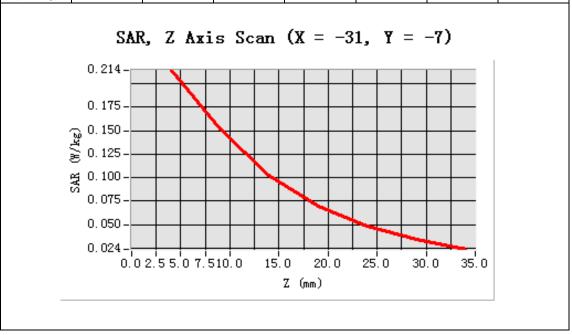


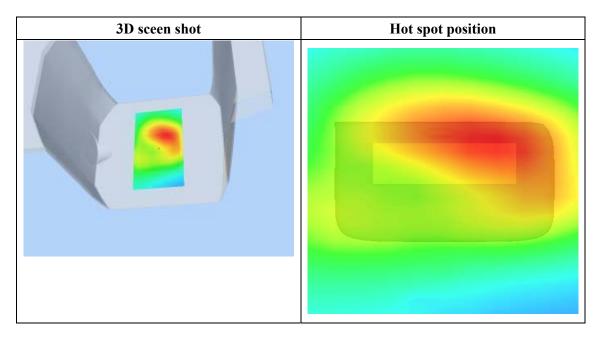


Maximum location: X=15.00, Y=22.00

SAR 10g (W/Kg)	0.126875		
SAR 1g (W/Kg)	0.255376		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2540	0.1513	0.1023	0.0696	0.0490	0.0000
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 8 seconds

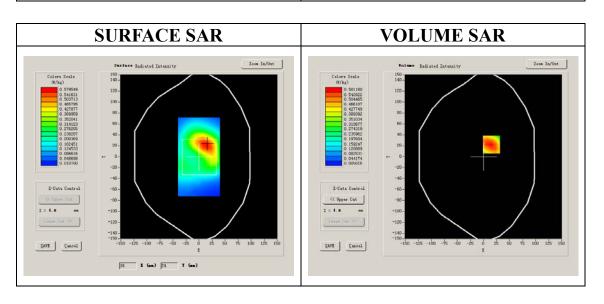
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	Middle		
Signal	GPRS		

B. SAR Measurement Results

Middle Band SAR (Channel 661):

it is the state (calculated only).				
Frequency (MHz)	1880.000000			
Relative permittivity (real part)	51.540001			
Relative permittivity	15.070000			
Conductivity (S/m)	1.573978			
Power drift (%)	-1.190000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:2			

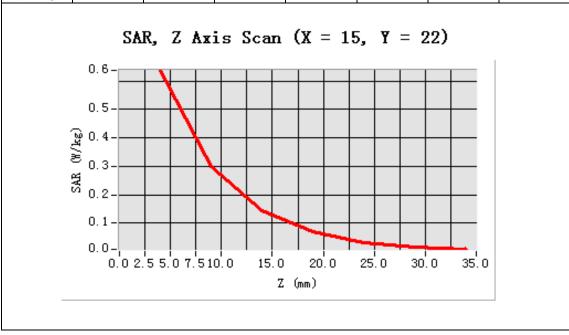


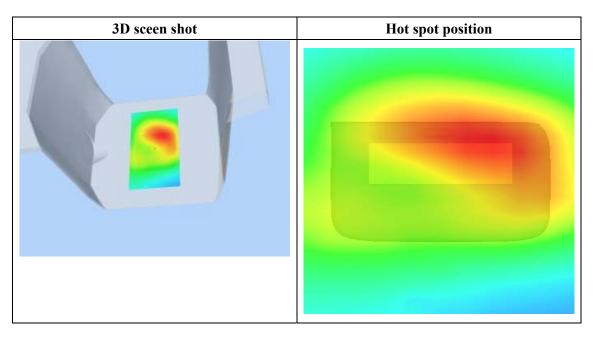


Maximum location: X=15.00, Y=22.00

SAR 10g (W/Kg)	0.328709		
SAR 1g (W/Kg)	0.614625		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6370	0.3014	0.1442	0.0694	0.0329	0.0171
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 7 seconds

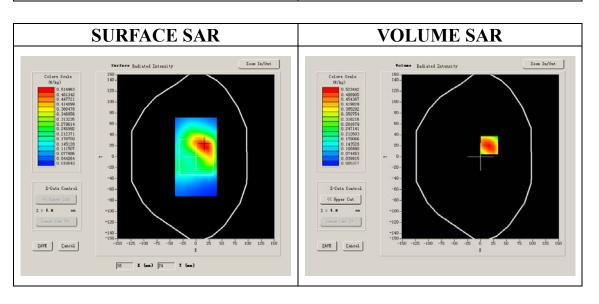
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	High		
Signal	GSM		

B. SAR Measurement Results

Higher Band SAR (Channel 810):

er Bana Britt (Chamier 616).				
Frequency (MHz)	1909.800049			
Relative permittivity (real part)	51.540001			
Relative permittivity	15.070000			
Conductivity (S/m)	1.598927			
Power drift (%)	-0.140000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:8			

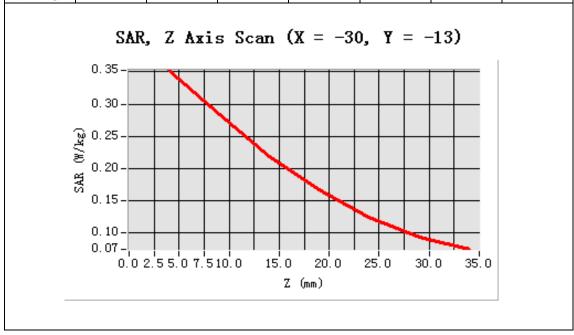


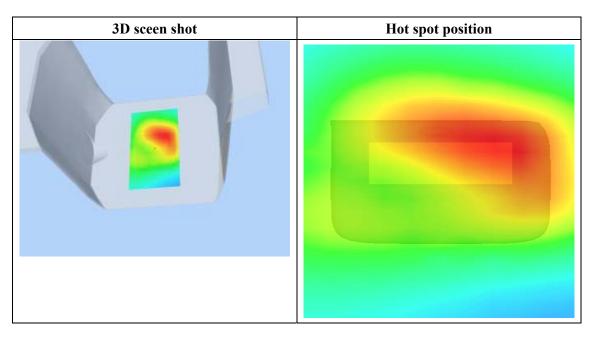


Maximum location: X=17.00, Y=21.00

SAR 10g (W/Kg)	0.210810		
SAR 1g (W/Kg)	0.309465		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3024	0.2841	0.2181	0.1675	0.1242	0.0926
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 7 seconds

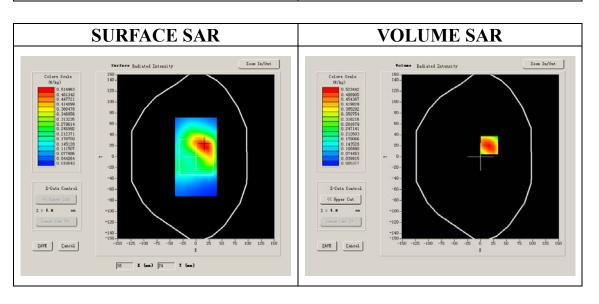
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	High		
Signal	EDGE		

B. SAR Measurement Results

Higher Band SAR (Channel 810):

er Bana Britt (Chamier 616).				
Frequency (MHz)	1909.800049			
Relative permittivity (real part)	51.540001			
Relative permittivity	15.070000			
Conductivity (S/m)	1.598927			
Power drift (%)	-0.140000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:2			

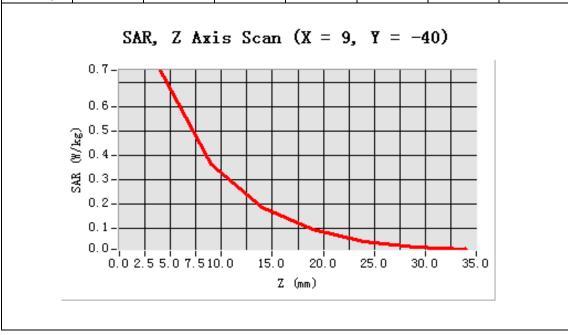


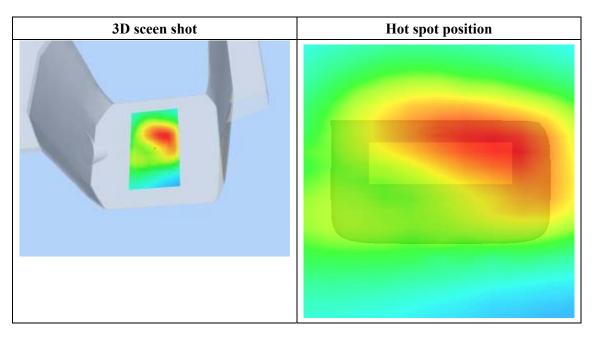


Maximum location: X=17.00, Y=21.00

SAR 10g (W/Kg)	0.325742		
SAR 1g (W/Kg)	0.655874		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6542	0.43571	0.2254	0.1011	0.0357	0.0084
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 7 seconds

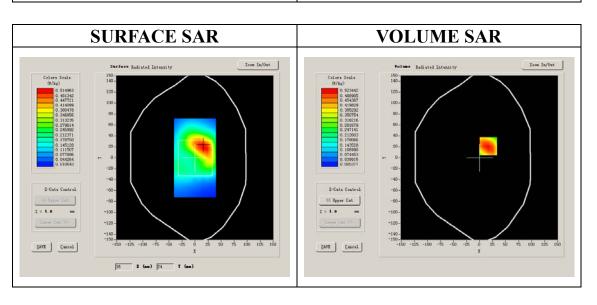
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	High		
Signal	GPRS		

B. SAR Measurement Results

Higher Band SAR (Channel 810):

er Bana Britt (Chamier 616).				
Frequency (MHz)	1909.800049			
Relative permittivity (real part)	51.540001			
Relative permittivity	15.070000			
Conductivity (S/m)	1.598927			
Power drift (%)	-0.140000			
Ambient Temperature:	22.2°C			
Liquid Temperature:	21.8C			
ConvF:	40.136,34.843,38.721			
Crest factor:	1:2			

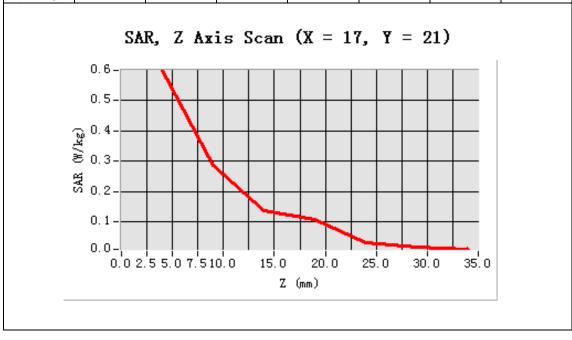


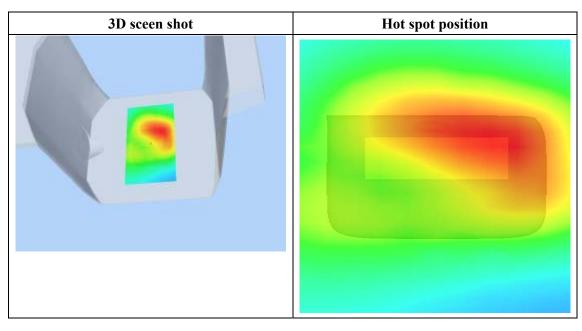


Maximum location: X=17.00, Y=21.00

SAR 10g (W/Kg)	0.310810		
SAR 1g (W/Kg)	0.588265		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5996	0.2864	0.1359	0.1061	0.0309	0.0164
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 9 minutes 7 seconds

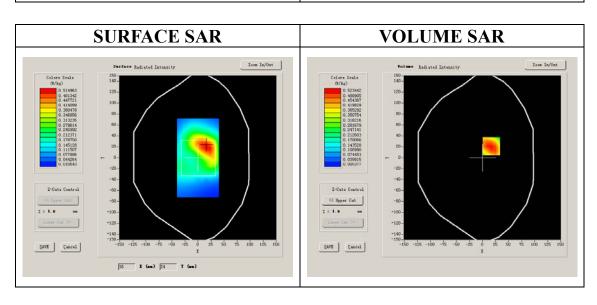
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	High		
Signal	GPRS		

B. SAR Measurement Results

Higher Band SAR (Channel 810):

H Bana Stat (Chamier 510):			
Frequency (MHz)	1909.800049		
Relative permittivity (real part)	51.540001		
Relative permittivity	15.070000		
Conductivity (S/m)	1.598927		
Power drift (%)	-0.140000		
Ambient Temperature:	22.2°C		
Liquid Temperature:	21.8C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:2		

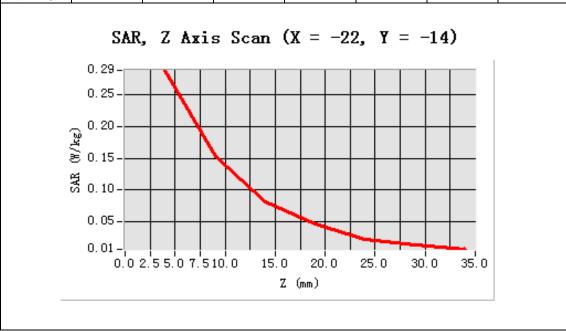


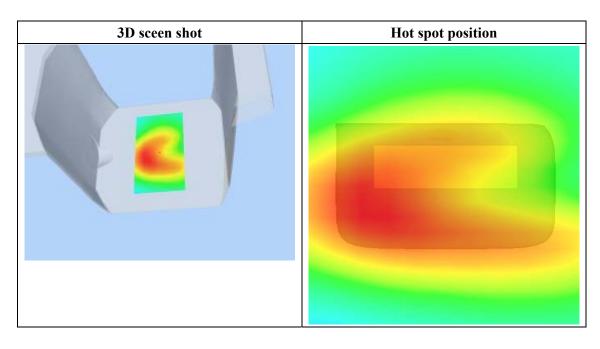


Maximum location: X=17.00, Y=21.00

SAR 10g (W/Kg)	0.159126
SAR 1g (W/Kg)	0.279754

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5996	0.2864	0.1359	0.1061	0.0309	0.0164
(W/Kg)							







System Performance Check Data(Head)

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 13 minutes 27 seconds

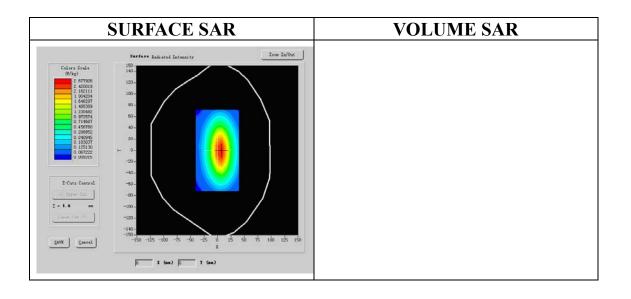
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position			
Band	835MHz		
Channels			
Signal	CW		

B. SAR Measurement Results

Band SAR

Frequency (MHz)	835.000000		
Relative permittivity (real part)	40.490002		
Relative permittivity	15.070000		
Conductivity (S/m)	0.983918		
Power drift (%)	-0.050000		
Ambient Temperature:	22.2°C		
Liquid Temperature:	21.5°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:1		

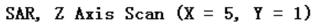


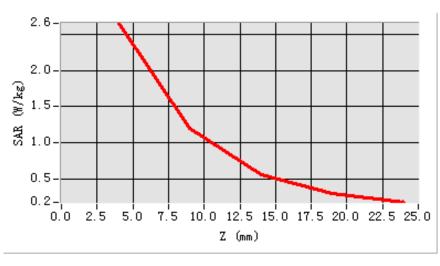


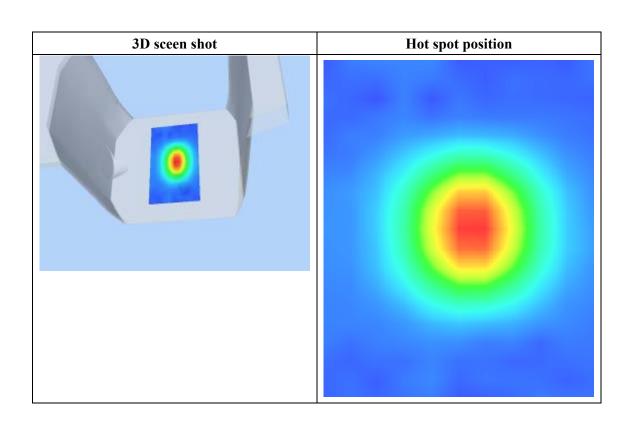
Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	1.715223	
SAR 1g (W/Kg)	2.677926	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	2.6486	1.2069	0.5583	0.3002









System Performance Check Data(Body)

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 13 minutes 27 seconds

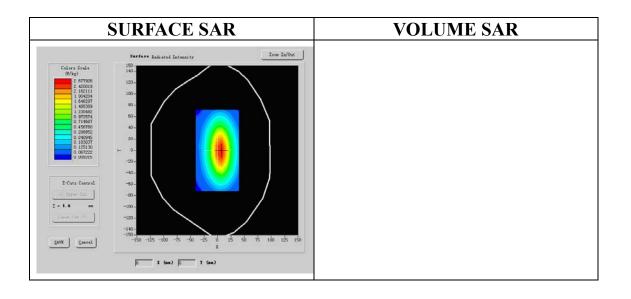
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position			
Band	835MHz		
Channels			
Signal	CW		

B. SAR Measurement Results

Band SAR

Frequency (MHz)	835.000000		
Relative permittivity (real part)	40.490002		
Relative permittivity	15.070000		
Conductivity (S/m)	0.983918		
Power drift (%)	-0.050000		
Ambient Temperature:	22.2°C		
Liquid Temperature:	21.8C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:1		





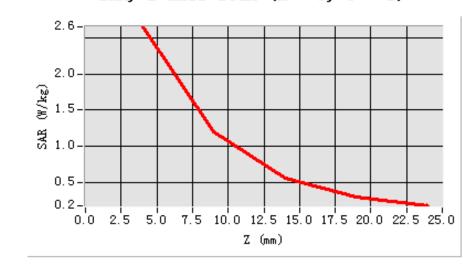
Maximum location: X=5.00, Y=1.00

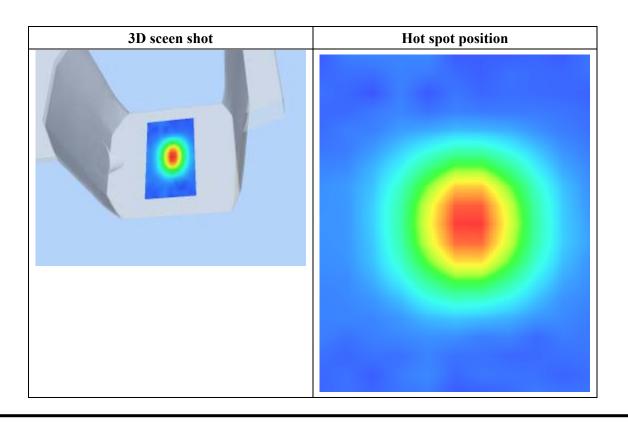
SAR 10g (W/Kg)	1.874523
SAR 1g (W/Kg)	2.875465

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	2.6486	1.2069	0.5583	0.3002

SAR, Z Axis Scan (X = 5, Y = 1)







System Performance Check Data(Head)

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 13 minutes 27 seconds

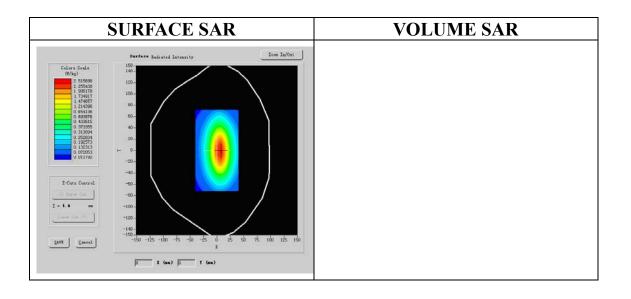
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position			
Band	1800MHz		
Channels			
Signal	CW		

B. SAR Measurement Results

Band SAR

Frequency (MHz)	1800.000000		
Relative permittivity (real part)	38.930000		
Relative permittivity	15.070000		
Conductivity (S/m)	1.321229		
Power drift (%)	-0.140000		
Ambient Temperature:	22.2°C		
Liquid Temperature:	21.8C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:1		





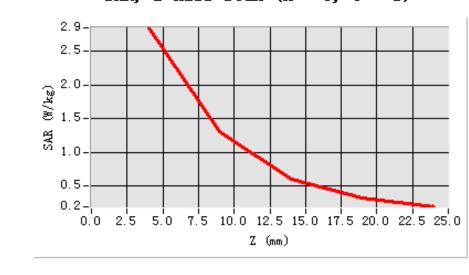
Maximum location: X=5.00, Y=1.00

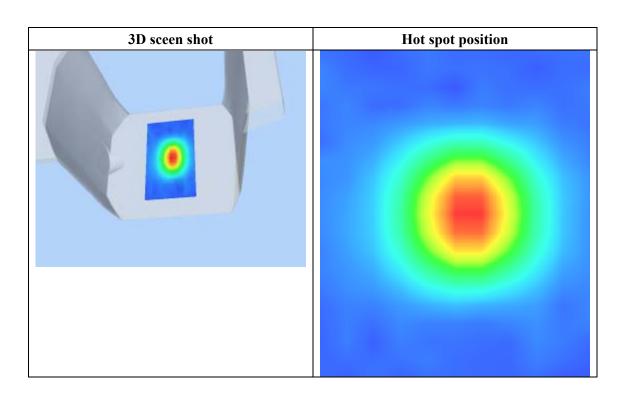
SAR 10g (W/Kg)	4.910003		
SAR 1g (W/Kg)	8.455521		

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	2.8536	1.3061	0.6041	0.3211

SAR, Z Axis Scan (X = 5, Y = 1)







System Performance Check Data(Body)

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 25/4/2011

Measurement duration: 13 minutes 27 seconds

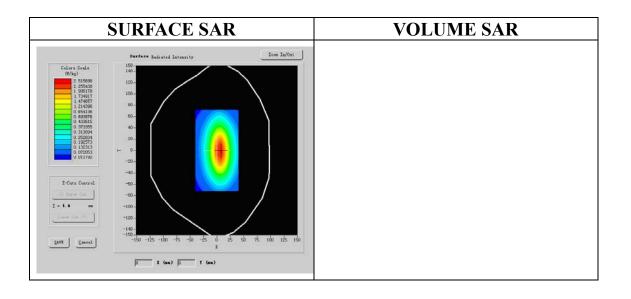
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position			
Band	1800MHz		
Channels			
Signal	CW		

B. SAR Measurement Results

Band SAR

Frequency (MHz)	1800.000000		
Relative permittivity (real part)	38.930000		
Relative permittivity	15.070000		
Conductivity (S/m)	1.321229		
Power drift (%)	-0.140000		
Ambient Temperature:	22.2°C		
Liquid Temperature:	21.8C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:1		





Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	4.874563		
SAR 1g (W/Kg)	8.987543		

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	2.8536	1.3061	0.6041	0.3211
SAR, Z Axis Scan $(X = 5, Y = 1)$					

