

FCC SAR

TEST REPORT

of

Mobile Phone

Model Name:

Avvio 100

Trade Name:

Avvio

Report No.:

SZ10040075S01

FCC ID .:

WVB-Avvio100

prepared for

Brighstar Corp

9725 NW 117TH Ave # 300 - Miami - FL - 33178

pidrepared by

Shenzhen Morlab Communications Technology Co., Ltd.

Morlab Laboratory

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General Information

1.1. Notes

The test results of this test report relate exclusively to the information specified in section 3.3. Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the identification. The test report may only be reproduced or published in full. Reproduction or publications of extracts from the test report requires the prior written approval of Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory. The test report shall be invalid without all the signatures of testing the Project Manager, the Deputy Project Manager and the Test Lab Manager. Any objections must be raised to Morlab within 30 days since the date when the report is received. It will not be taken into consideration beyond this limit.

1.2. Organization item

Report No .:

SZ10040075S01

Date of Issue:

Aug. 30, 2010

Date of Tests:

Jun. 1, 2010 - Jun. 1, 2010

Responsible for Accreditation:

Shu Luan

Project Manager:

Li Lei

Deputy Project Manager:

Chen Chao

1.3. Conclusion

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory has verified that all tests as listed in the section 4.5 of this report haven been performed succ essfully with the tested equipment.

Chen Chao

Tested by

Chen Chus

(Responsible for the Test Report)

Li Lei

Reviewed by

ORAL SERVICE (Verification of the Test Report)

Shu Luan

Certification

Approved by

(Responsible Test Lab Manager)



2. Testing Laboratory

2.1. 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

2.2. 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

2.3. Accreditation Certificate

Accredited Testing Laboratory: No. CNAS L3572 (see 0)

2.4. List of Test Equipments

No.	Instrument	Туре	Cal. Date	Cal. Due
1	PC	Dell (Pentium IV 2.4GHz,		
1	PC	SN:X10-23533)		
2	Network	Rohde&Schwarz (CMU200,	2009-9-26	12200
2	Emulator	SN:105894)	2009-9-20	1year
3	Voltmeter	Keithley (2000, SN:1000572)	2009-9-24	1year
4	Cynthotizor	Rohde&Schwarz (SML_03,	2009-9-24	12200
4	Synthetizer	SN:101868)	2009-9-24	1year
5	Amplifier	Nucl udes (ALB216, SN:10800)	2009-9-24	1year
6	Power Meter	Rohde&Schwarz (NRVD, SN:101066)	2009-9-24	1year
7	Probe	Antennessa (SN:SN_3708_EP80)	2009-9-24	1year
8	Phantom	Antennessa (SN:SN_36_08_SAM62)	2009-9-24	1year
9	Liquid	Antennessa (Last Calibration:21 08 08)	2010-8-21	1year



3. Technical Information

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

3.1. Identification of Applicant

Company Name: Brighstar Corp

Address: 9725 NW 117TH Ave # 300 – Miami – FL - 33178

3.2. Identification of Manufacturer

Company Name: UMEOX MOBILE LIMITED

Address: 18/F, Science & Technology Development Institute of China,

High-Tech South Road 1, South Section, High-Tech Science and

Technology Park, Nan Shan District, ShenZhen, China

3.3. Equipment Under Test (EUT)

Brand Name: Avvio Torch
Type Name: Avvio Torch
Marking Name: Avvio 100

Hardware Version: UMEOX_ZU_4028_850&1900_NOFM Software Version: U_ZU_V1.04_SC_EN_WELCOME

Frequency Bands: GSM 850MHz (channel 128:824.20MHz, channel 190:836.59MHz,

channel 251:848.29MHz)

PCS 1900MHz (channel 512:1850.19MHz, channel 661:1880.00MHz,

channel 810:1909.80MHz)

Modulation Mode: GMSK
Antenna type: Build inside

Development Stage: Identical prototype

Battery Model: 4C

Battery specification: 650mAh 3.7V Development Stage Identical prototype

Multislot Class GPRS: (n.a): EDGE:(n.a)



3.3.1. Photographs of the EUT

Please see for photographs of the EUT.

3.3.2. Identification of all used EUTs

The EUT Identity consists of numerical and letter characters (see the table below), the first five numerical characters indicates the Type of the EUT defined by Morlab, the next letter character indicates the test sample, and the following two numerical characters indicates the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	UMEOX_ZU_4028_	U_ZU_V1.04_SC_EN_WELCO
1#	850&1900_NOFM	ME

4. Test Results

4.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	47 CFR § 2. 1093	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.



4.2. Test Environment/Conditions

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

Air Pressure: 980 ... 1020 hPa
Details of Power Supply: 220V/50Hz AC

Extreme Temperature: Low Temperature (LT) = -10° C

High Temperature (HT) = 55° C

Extreme Voltage of the EUT: Normal Voltage (NV) = 3.70V

Low Voltage (LV) = 3.60VHigh Voltage (HV) = 4.20V

Test frequency: GSM 850MHz

PCS 1900MHz

Operation mode: Call established

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

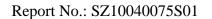
PCS 1900 MHz Maximum output power(level 0)

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 128, 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.





4.3. Operational Conditions During Test

4.3.1. Informations On The Testing

I. INFORMATIONS ON THE TESTING

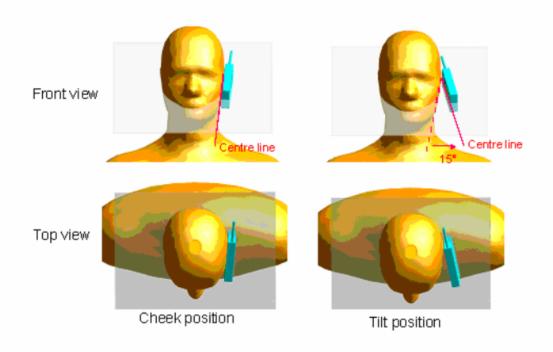
I.1. Normative reference

IEEE 1528: Recommended Practice for determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques. Institute of Electrical and Electronics Engineers, INC., 2003.

I.3. Positions and test conditions of the mobile phone under test

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



4.3.2. 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.



COMOSAR bench

The mobile phone 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 10 g mass.

II.1. 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 2 mm +/- 0,2 mm. It enables the dosimetric evaluation of left and right hand 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.

II.2. Probe

For the measurements the Specific Dosimetric E-Field Probe SSE5 with following specifications is used.

• Dynamic range: 0.01-100 W/kg

• Tip Diameter: 5 mm



• Distance between probe tip and sensor center: 2.5 mm

 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: <0.50 dB

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

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

II.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 16 mm * 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.

$\Pi.4$ 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 minimise 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 1 mm 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.



4.3.3. Uncertainty Assessment

The following table includes the uncertainty table of the IEEE 1528.

The values are determined by Antennessa.

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 (+-%)	Vi
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	00
Axial Isotropy	E.2.2	2.5	R	V3	(1-Cp) ^{1/2}	(1-Cp) ^{1/2}	1.02	1.02	00
Hemispherical Isotropy	E.2.2	4.0	R	√3	VCp	VCp	1.63	1.63	00
Boundary effect	E.2.3	1.0	R	V3	1	1	0.58	0.58	00
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	~
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	00
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	00
Reponse Time	E.2.7	3.0	R	V3	1	1	1.73	1.73	~
Integration Time	E.2.8	2.0	R	V3	1	1	1.15	1.15	00
RF ambient Conditions	E.6.1	3.0	R	V3	1	1	1.73	1.73	
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	√3	1	1	1.15	1.15	~
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	√3	1	1	0.03	0.03	∞
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	√3	1	1	2.89	2.89	~
Test sample Related									
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 Variation - SAR drift measurement	6.6.2	4.76	R	√3	1	1	2.75	2.75	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	√3	1	1	0.03	0.03	88
Liquid conductivity - deviation from target value	E.3.2	0.57	R	√3	0.64	0.43	0.21	0.14	~



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	3.66	R	\[\sigma_{\sigma}	0.6	0.49	1.27	1.04	8
from target value				¥3					
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
measurement uncertainty									
Combined Standard Uncertainty			RSS				11.28	10.78	
Expanded Uncertainty			k				21.99	21.03	
(95% Confidence interval)									

4.3.4. Equipments and results of validation testing

Equipments:

name	Type and specification
Signal generator	E4433B
Directional coupler	450MHz-3GHz
Amplifier	3W 502(10-2500MHz)
Reference dipole	SN 36/08 DIPF 101

Results:

Frequency	835MHz	1900MHz
Target value (1g)	10.8 W/Kg(body)	39.7 W/Kg
250 mW input power	2.734 W/Kg (head)	9.857 W/Kg (head)
	2.752 W/Kg (body)	9.895 W/Kg (body)
Test value (1g)	10.936 W/Kg (head)	39.428 W/Kg (head)
	10.080 W/Kg (body)	39.580 W/Kg (body)

Note:Please refer to check the system performance data, the first 126-137 page. 250 mW input power



4.3.5. Dielectric Performance

The measured 1-gram averaged SAR values of the device against the head and the body are provided in Tables 1 and 2 respectively. The humidity and ambient temperature of test facility were 54% ~60% and 23.0 °C ~23.8°C respectively. The SAM head phantom (SN 0381 SH) were full of the head tissue simulating liquid. 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). A base station simulator was used to control the device during the SAR measurement. The phone was supplied with full-charged battery for each measurement.

For head measurement, the device was tested at the lowest, middle and highest frequencies in the transmit band.

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 (Jun. 1)	835 MHZ	41. 790001	0. 888655			
Target value	1900 MHZ	40	1. 40			
Validation value (Jun. 1)	1900 MHZ	39. 993999	1. 335397			

For body-worn measurements, the device was tested against flat phantom representing the user body. Under measurement phone was put on in the belt 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. 0	0.95					
Validation value (Jun. 1)	835 MHz	54. 014999	1. 009033					
Target value	1900 MHz	53. 3	1. 52					



Validation value	1900 MHz	51. 540001	1. 573978
(Jun. 1)			

4.3.6. Simulant liquids

Simulant liquids that are used for testing at frequencies of GSM 850MHz and GSM 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 20litres for a horizontal bath phantom.

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

4.4. Items used in the Test Results List

Terms in the column "Verdict" for the test results list of the section 4.5:

Verdict	Description	
PASS	EUT passed this test case	
FAIL	EUT failed this test case	
INC.	EUT did not pass and did not fail this test case, therefore the verdict is inconclusive	
Decl.	"Declaration": Morlab has received documents from the applicant and/or	
Deci.	manufacturer which show conformity to the applied standards for this test case.	
N/A	Test case not applicable for the EUT, see the column "Note" for detailed	



4.5. Test Results List

Summary of Measurement Results (GSM 850MHz Band)

SAR Values (GSM 850MHz Band), Measured against the head.

Temperature: 23.0~23.8°C, humidity: 54~60%.		
Limit of SAD (W//kg)	1 g Average	
Limit of SAR (W/kg)	1.6	
	Measurement Result (W/kg)	
Test Case	1 g Average	Power level
	(W/kg)	(dBm)
Left head, Touch cheek, Channel Low	1.352	30.57
Left head, Touch cheek, Channel Middle	1.288	30.72
Left head, Touch cheek, Channel High	1.113	31.08
Left head, Tilt 15 Degree, Channel Low	0.608	30.57
Left head, Tilt 15 Degree, Channel Middle	0.645	30.72
Left head, Tilt 15 Degree, Channel High	0.603	31.08
Right head, Touch cheek, Channel Low	1.458	30.57
Right head, Touch cheek, Channel Middle	1.474	30.72
Right head, Touch cheek, Channel High	1.382	31.08
Right head, Tilt 15 Degree, Channel Low	0.659	30.57
Right head, Tilt 15 Degree, Channel Middle	0.657	30.72
Right head, Tilt 15 Degree, Channel High	0.647	31.08

Summary of Measurement Results (GSM 1900MHz Band)

SAR Values (GSM 1900MHz Band), Measured against the head.

Temperature: 23.0~23.8°C, humidity: 54~60%.		
Limit of SAR (W/kg)	1 g Average	
Limit of SAR (W/kg)	-	1.6
	Measuremen	t Result (W/kg)
Test Case	1 g Average	Power level
	(W/kg)	(dBm)
Left head, Touch cheek, Channel Low	1.219	27.43
Left head, Touch cheek, Channel Middle	1.406	27.08
Left head, Touch cheek, Channel High	1.521	28.08
Left head, Tilt 15 Degree, Channel Low	0.172	27.43
Left head, Tilt 15 Degree, Channel Middle	0.188	27.08
Left head, Tilt 15 Degree, Channel High	0.202	28.08
Right head, Touch cheek, Channel Low	0.959	27.43



Right head, Touch cheek, Channel Middle	1.261	27.08
Right head, Touch cheek, Channel High	1.229	28.08
Right head, Tilt 15 Degree, Channel Low	0.171	27.43
Right head, Tilt 15 Degree, Channel Middle	0.183	27.08
Right head, Tilt 15 Degree, Channel High	0.197	28.08

SAR Values (GSM 850MHz Band), Measured against the body.

Temperature: 23.0~23.8°C, humidity: 54~60%.		
Limit of SAR (W/kg)	1 g Average	
Limit of SAK (W/kg)	1.6	
	Measurement Result (W/kg)	
Test Case	1 g Average	Power level
	(W/kg)	(dBm)
Side, Low frequency	0.780	30.57
Side, Middle frequency	0.772	30.72
Side, High frequency	0.704	31.08
Side, Low frequency (back)	0.686	30.57

SAR Values (GSM 1900MHz Band), Measured against the body.

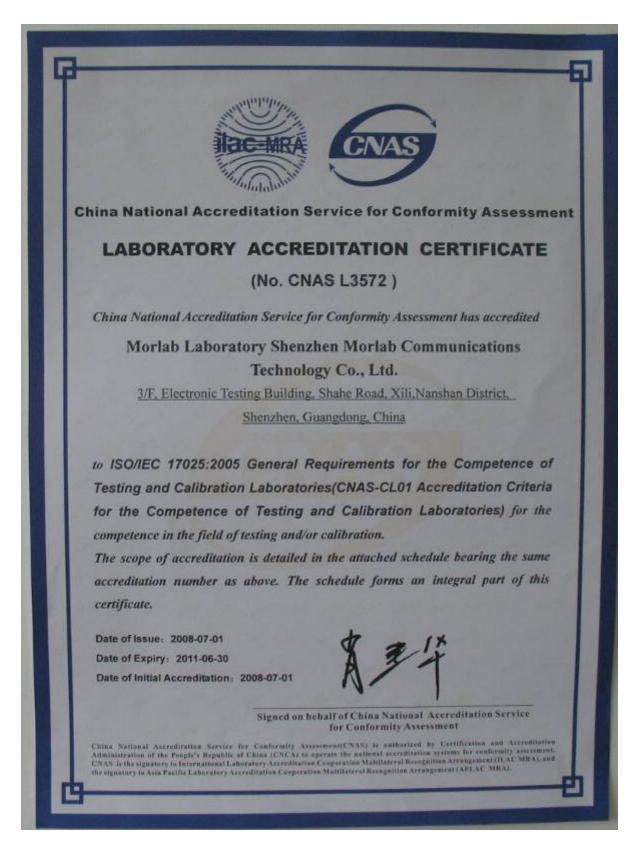
Temperature: 23.0~23.8°C, humidity: 54~60%.			
Limit of SAR (W/kg)	1 g Average		
Limit of SAK (W/kg)		1.6	
	Measuremen	t Result (W/kg)	
Test Case	1 g Average	Power level	
	(W/kg)	(dBm)	
Side, Low frequency	0.228	27.43	
Side, Middle frequency	0.314	27.08	
Side, High frequency	0.321	28.08	
Side, Middle frequency (back)	0.243	28.08	

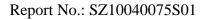
Note: The depth of the body tissue was 15.1cm. The distance between the back of the device and the bottom of the flat phantom is 1.5cm(taking into account of the IEEE 1528 and the place of the antenna)





Annex A Accreditation Certificate





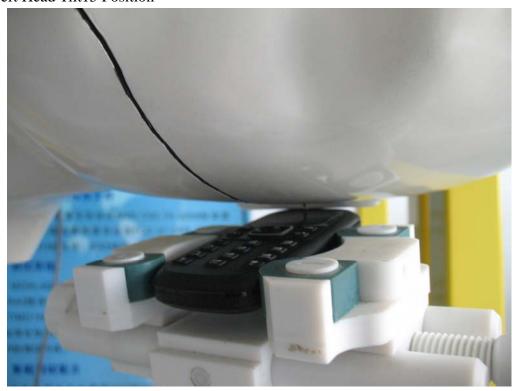


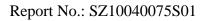
Annex B Photographs of the EUT

1 EUT Left Head Touch Cheek Position



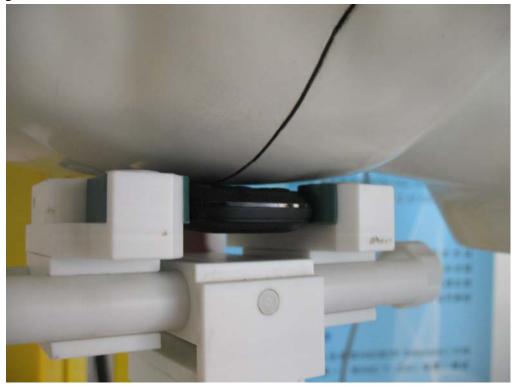
2 EUT Left Head Tilt15 Position



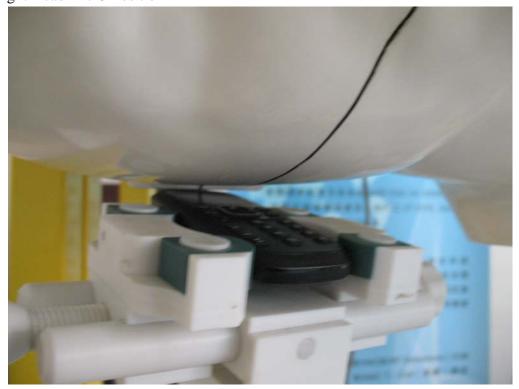


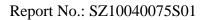


3 EUT Right Head Touch Cheek Position



4 EUT Right Head Tilt15 Position

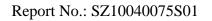






5 Side Position







Annex C Graph Test Results

	BAND	<u>PARAMETERS</u>
TYPE	GSM850	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 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 Middle Channel in GSM mode Measurement 15: Validation Plane with Body device position on High Channel in GSM mode Measurement 16: Validation Plane with Body device position on High Channel in GSM mode Measurement 16: Validation Plane with Body device position on High Channel in GSM mode Measurement 16: Validation Plane with Body device position on High Channel in GSM mode Measurement 16: Validation Plane with Body device position on High Channel in GSM mode



	Measurement 17: Right Head with Cheek device position
	on Low Channel in GSM mode
	Measurement 18: Right Head with Cheek device position
	on Middle Channel in GSM mode
	Measurement 19: Right Head with Cheek device position
	on High Channel in GSM mode
	Measurement 20: Right Head with Tilt device position on
	Low Channel in GSM mode
	Measurement 21: Right Head with Tilt device position on
	Middle Channel in GSM mode
	Measurement 22: Right Head with Tilt device position on
	High Channel in GSM mode
	Measurement 23: Left Head with Cheek device position
	on Low Channel in GSM mode
	Measurement 24: Left Head with Cheek device position
GSM	on Middle Channel in GSM mode
GSWI	Measurement 25: Left Head with Cheek device position
1900	on High Channel in GSM mode
1700	Measurement 26: Left Head with Tilt device position on
	Low Channel in GSM mode
	Measurement 27: Left Head with Tilt device position on
	Middle Channel in GSM mode
	Measurement 28: Left Head with Tilt device position on
	High Channel in GSM mode
	Measurement 29: Validation Plane with Body device
	position on Low Channel in GSM mode
	Measurement 30: Validation Plane with Body device
	position on Middle Channel in GSM mode
	Measurement 31: Validation Plane with Body device
	position on High Channel in GSM mode
	Measurement 32: Validation Plane with Body device
	position on Middle Channel in GSM mode (back)



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: 1/6/2010

Measurement duration: 7 minutes 52 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

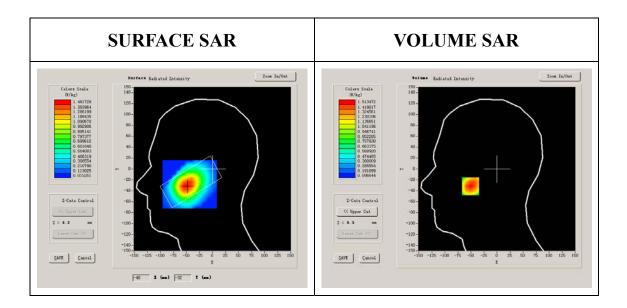
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250





Conductivity (S/m)	0.866612
Variation (%)	0.640000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.3°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



Maximum location: X=-51.00, Y=-32.00

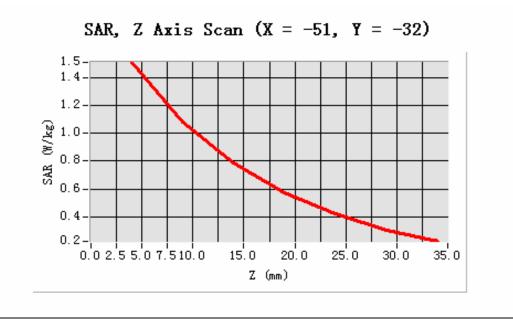
SAR 10g (W/Kg)	0.989808
SAR 1g (W/Kg)	1.458308

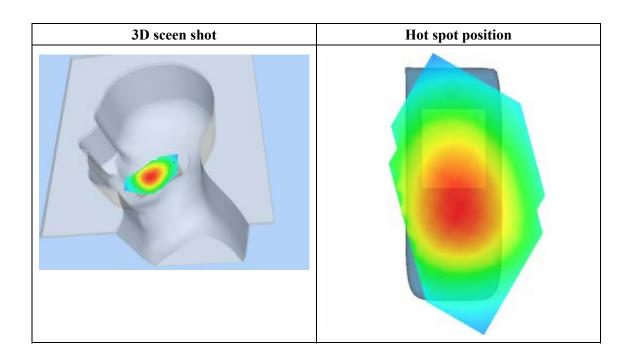




Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.5135	1.0866	0.7878	0.5748	0.4190	0.3039
(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: 1/6/2010

Measurement duration: 7 minutes 51 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

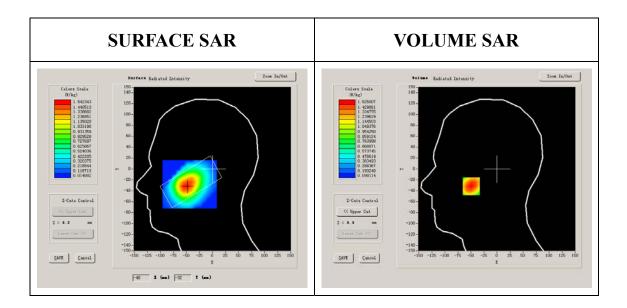
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976		
Relative permittivity (real part)	40.669998		
Relative permittivity	19.120001		





Conductivity (S/m)	0.888655		
Variation (%)	0.390000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.3°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



Maximum location: X=-49.00, Y=-32.00

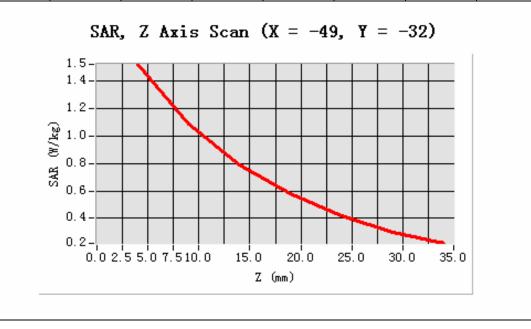
SAR 10g (W/Kg)	1.001870
SAR 1g (W/Kg)	1.473670

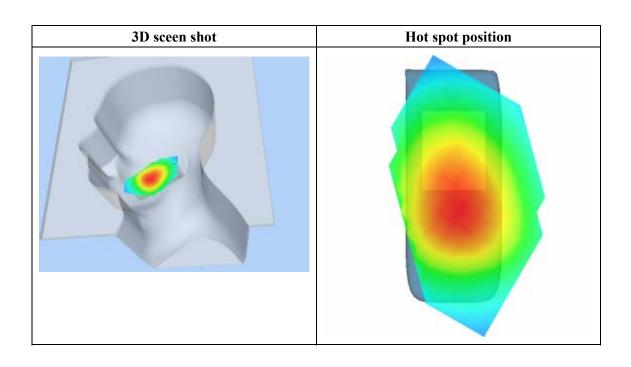




Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.5250	1.0879	0.7938	0.5805	0.4217	0.3005
(W/Kg)							







MEASUREMENT 3

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 8 minutes 1 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

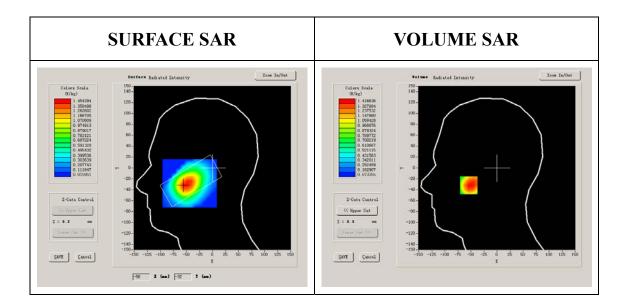
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988		
Relative permittivity (real part)	41.675999		
Relative permittivity	18.967199		





Conductivity (S/m)	0.894409		
Variation (%)	-1.580000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.3°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



Maximum location: X=-54.00, Y=-32.00

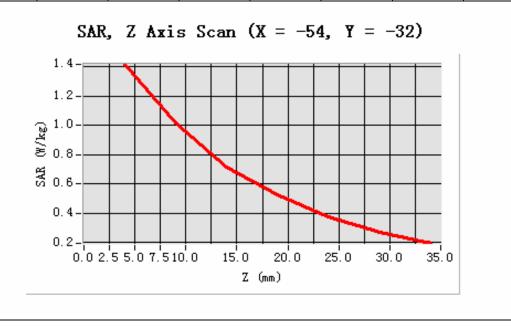
SAR 10g (W/Kg)	0.941781		
SAR 1g (W/Kg)	1.382051		

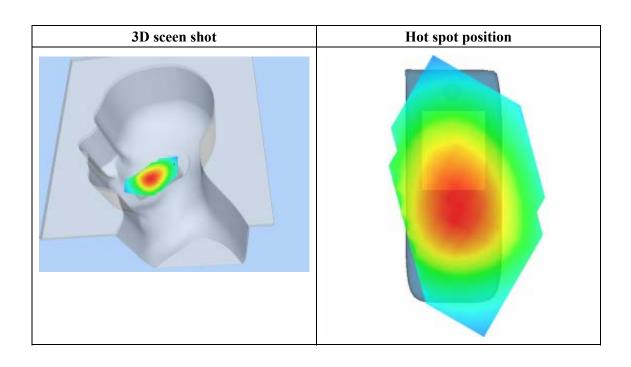




Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.4166	1.0131	0.7156	0.5259	0.3771	0.2661
(W/Kg)							







MEASUREMENT 4

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 43 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

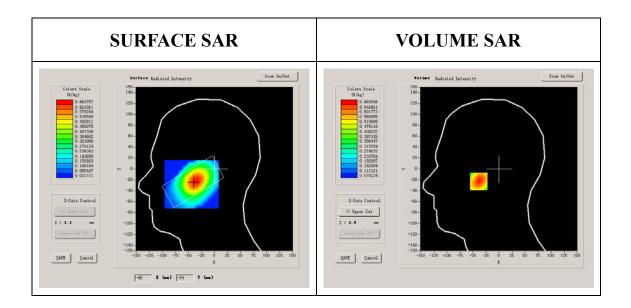
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250





Conductivity (S/m)	0.866612
Variation (%) 2.460000	
Ambient Temperature:	22.6°C
Liquid Temperature:	22.3°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



Maximum location: X=-37.00, Y=-23.00

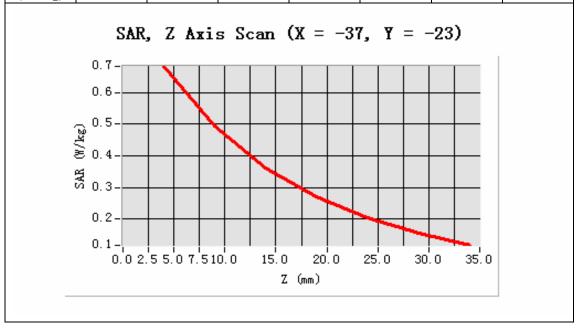
SAR 10g (W/Kg)	0.450259
SAR 1g (W/Kg)	0.658643

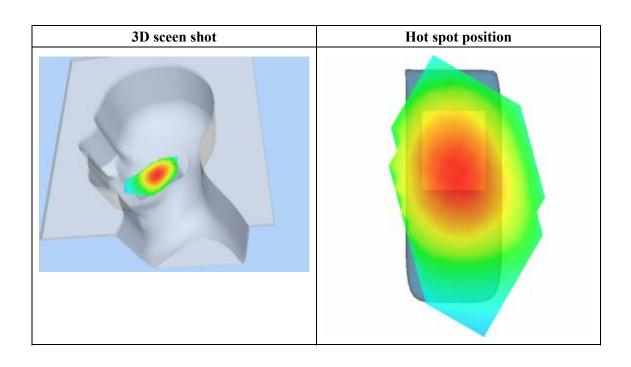




Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6835	0.4960	0.3625	0.2713	0.2040	0.1534
(W/Kg)							







MEASUREMENT 5

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 40 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

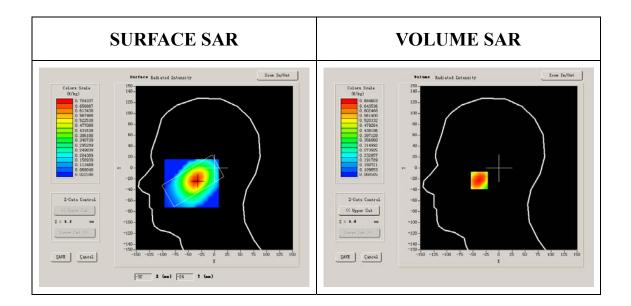
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001





Conductivity (S/m)	0.888655	
Variation (%)	-2.300000	
Ambient Temperature:	22.6°C	
Liquid Temperature:	22.3°C	
ConvF:	28.479,25.214,27.196	
Crest factor:	1:8	



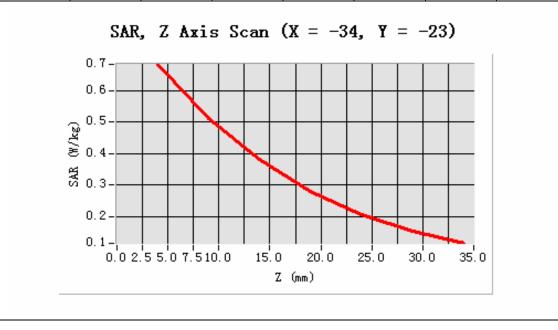
Maximum location: X=-34.00, Y=-23.00

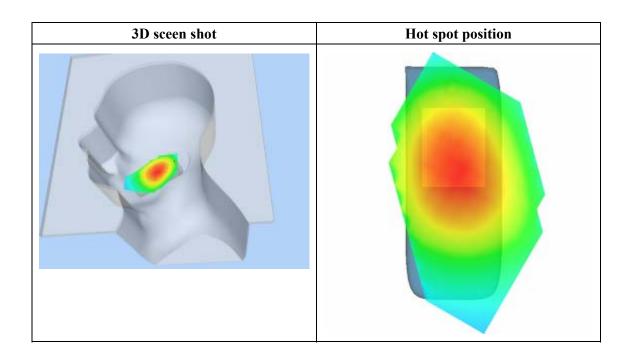
SAR 10g (W/Kg)	0.458243
SAR 1g (W/Kg)	0.656824





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6846	0.5120	0.3820	0.2796	0.2065	0.1518
(W/Kg)							







MEASUREMENT 6

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 43 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

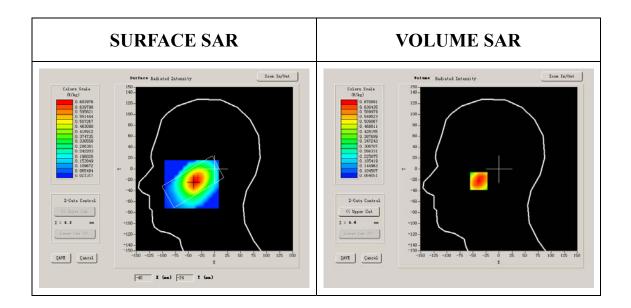
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199



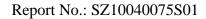


Conductivity (S/m)	0.894409
Variation (%)	-0.740000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.3°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



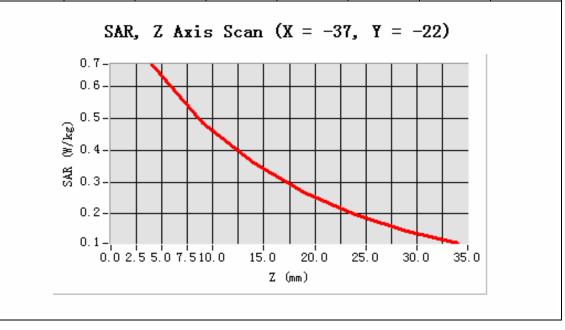
Maximum location: X=-37.00, Y=-22.00

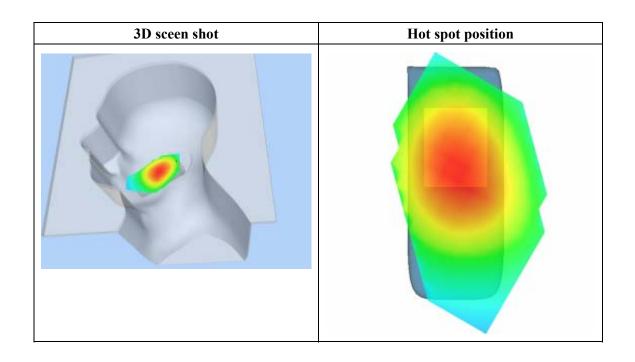
SAR 10g (W/Kg)	0.444846
SAR 1g (W/Kg)	0.647269





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6709	0.4880	0.3613	0.2676	0.1966	0.1469
(W/Kg)							







MEASUREMENT 7

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 51 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

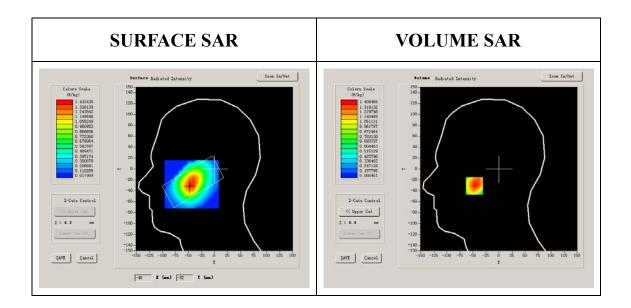
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250





Conductivity (S/m)	0.866612	
Variation (%)	-1.660000	
Ambient Temperature:	22.6°C	
Liquid Temperature:	22.3°C	
ConvF:	28.479,25.214,27.196	
Crest factor:	1:8	



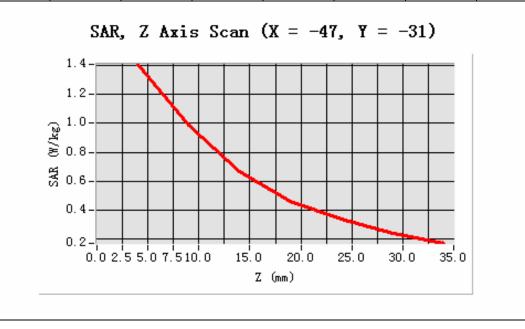
Maximum location: X=-47.00, Y=-31.00

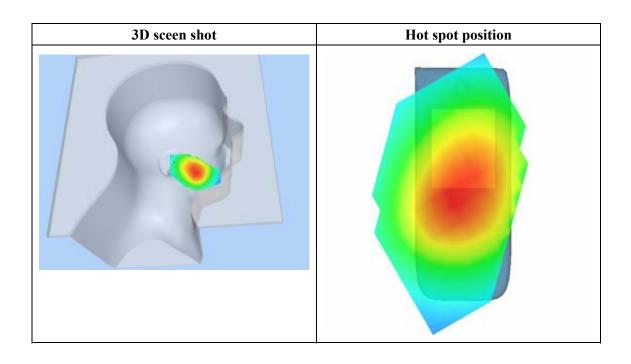
SAR 10g (W/Kg)	0.898346
SAR 1g (W/Kg)	1.351922





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.4085	0.9847	0.6694	0.4633	0.3407	0.2368
(W/Kg)							







MEASUREMENT 8

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 50 seconds

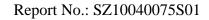
A. Experimental conditions.

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

B. SAR Measurement Results

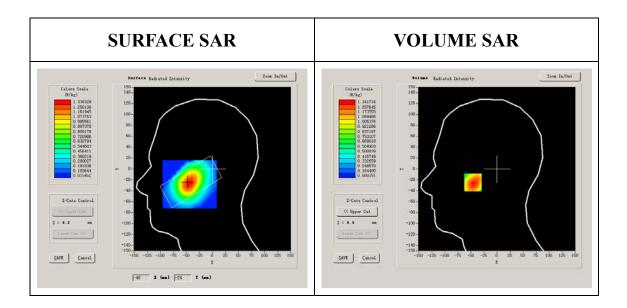
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976		
Relative permittivity (real part)	40.669998		
Relative permittivity	19.120001		





Conductivity (S/m)	0.888655		
Variation (%)	-2.140000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.3°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



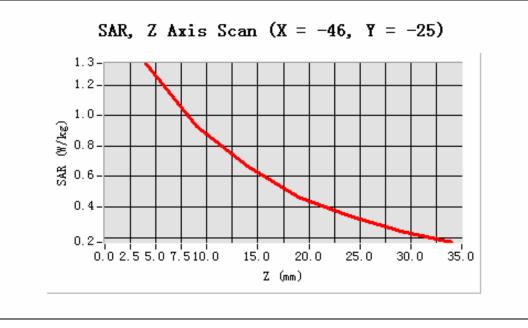
Maximum location: X=-46.00, Y=-25.00

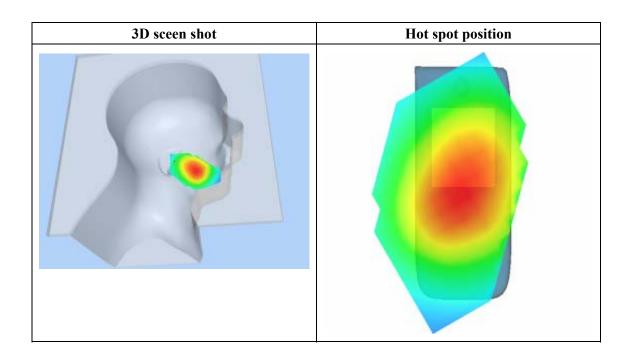
SAR 10g (W/Kg)	0.857797
SAR 1g (W/Kg)	1.288164





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.3417	0.9257	0.6664	0.4664	0.3451	0.2411
(W/Kg)							







MEASUREMENT 9

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 42 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

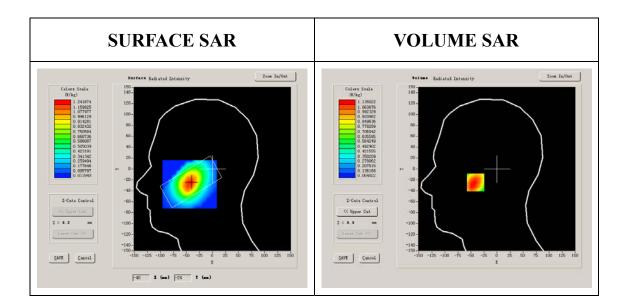
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988		
Relative permittivity (real part)	41.675999		
Relative permittivity	18.967199		



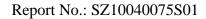


Conductivity (S/m)	0.894409		
Variation (%)	-1.280000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.3°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



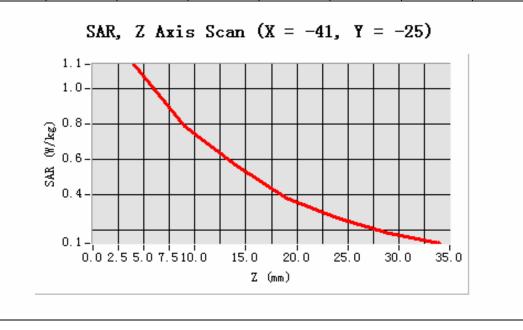
Maximum location: X=-41.00, Y=-25.00

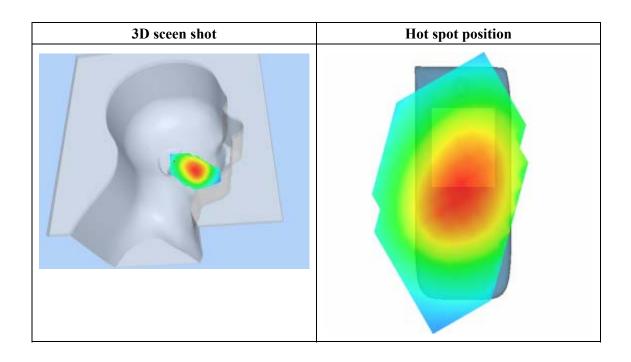
SAR 10g (W/Kg)	0.731367		
SAR 1g (W/Kg)	1.112797		





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.1339	0.7855	0.5689	0.3847	0.2708	0.1846
(W/Kg)							







MEASUREMENT 10

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 42 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

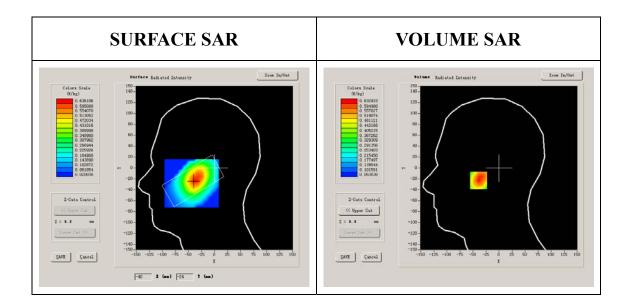
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250





Conductivity (S/m)	0.866612	
Variation (%)	-3.870000	
Ambient Temperature:	22.6°C	
Liquid Temperature:	22.3°C	
ConvF:	28.479,25.214,27.196	
Crest factor:	1:8	



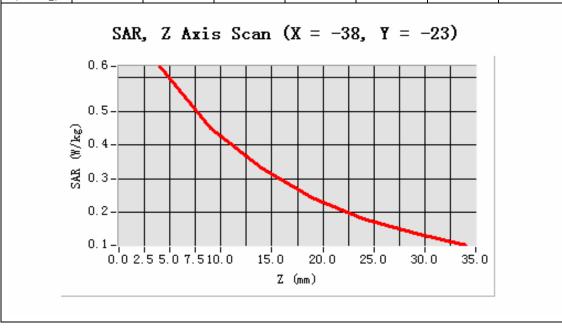
Maximum location: X=-38.00, Y=-23.00

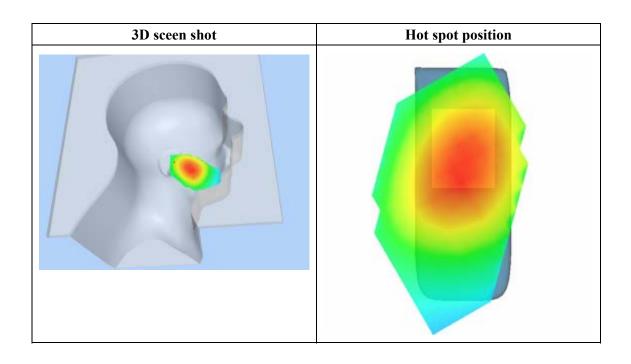
SAR 10g (W/Kg)	0.414742
SAR 1g (W/Kg)	0.607711





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6329	0.4484	0.3320	0.2426	0.1823	0.1387
(W/Kg)							







MEASUREMENT 11

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 37 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

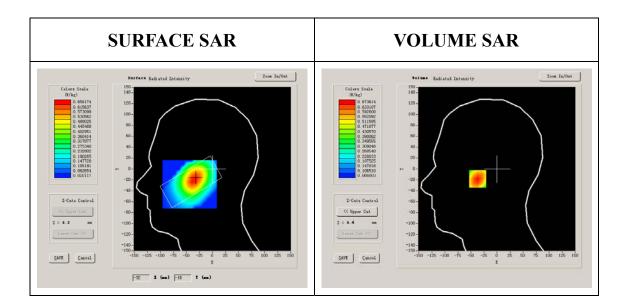
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001





Conductivity (S/m)	0.888655
Variation (%)	-0.730000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.3°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



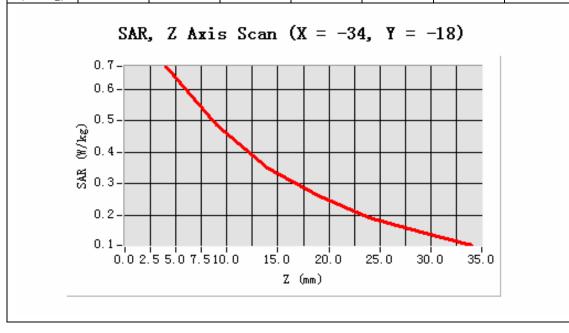
Maximum location: X=-34.00, Y=-18.00

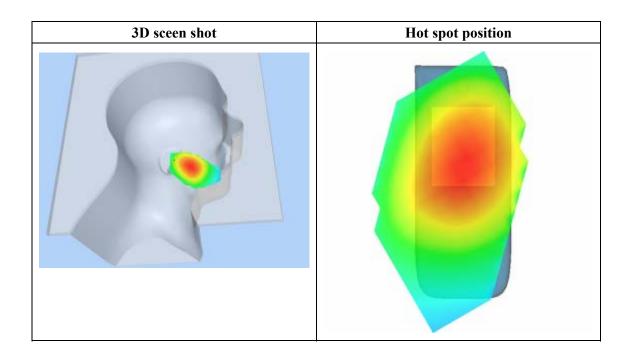
SAR 10g (W/Kg)	0.442005
SAR 1g (W/Kg)	0.645003





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6736	0.4855	0.3486	0.2627	0.1933	0.1462
(W/Kg)							







MEASUREMENT 12

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 39 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

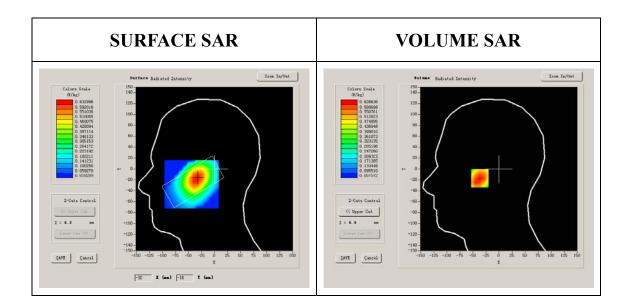
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199



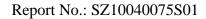


Conductivity (S/m)	0.894409	
Variation (%)	-1.100000	
Ambient Temperature:	22.6°C	
Liquid Temperature:	22.3°C	
ConvF:	28.479,25.214,27.196	
Crest factor:	1:8	



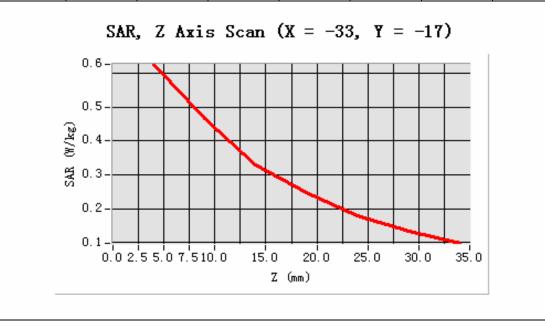
Maximum location: X=-33.00, Y=-17.00

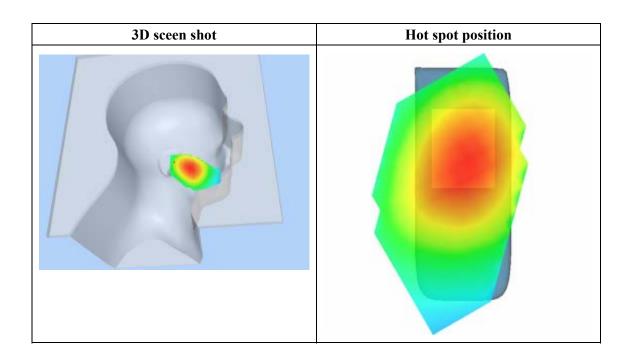
SAR 10g (W/Kg)	0.413050	
SAR 1g (W/Kg)	0.602941	





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6266	0.4660	0.3281	0.2488	0.1793	0.1327
(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: 1/6/2010

Measurement duration: 9 minutes 10 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

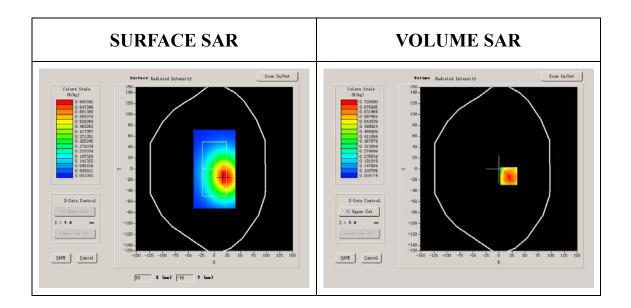
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012		
Relative permittivity (real part)	54.116001		
Relative permittivity	21.284550		





Conductivity (S/m)	0.974596		
Variation (%)	-1.560000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.3°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



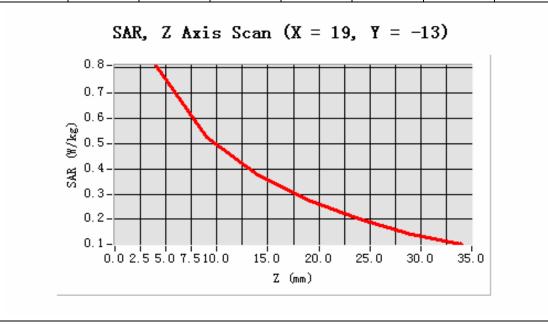
Maximum location: X=19.00, Y=-13.00

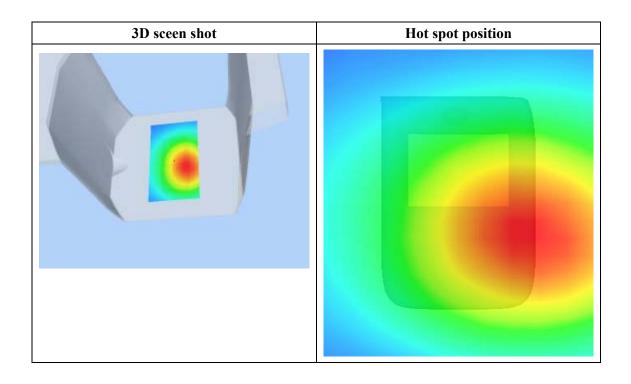
SAR 10g (W/Kg)	0.518905
SAR 1g (W/Kg)	0.779523

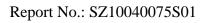




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.8097	0.5242	0.3771	0.2763	0.1997	0.1417
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 9 minutes 11 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

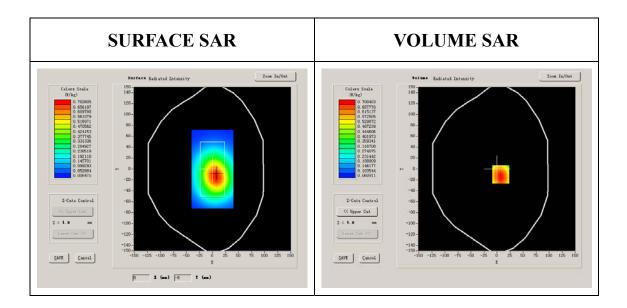
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	55.709999
Relative permittivity	21.709999





Conductivity (S/m)	1.009033		
Variation (%)	-2.490000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.3°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



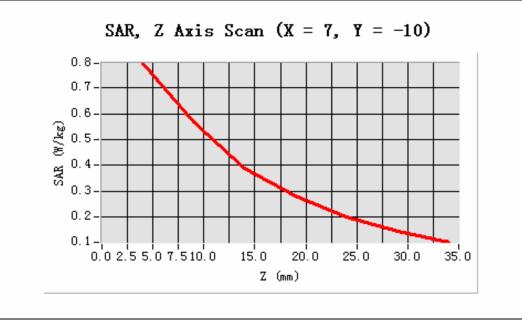
Maximum location: X=7.00, Y=-10.00

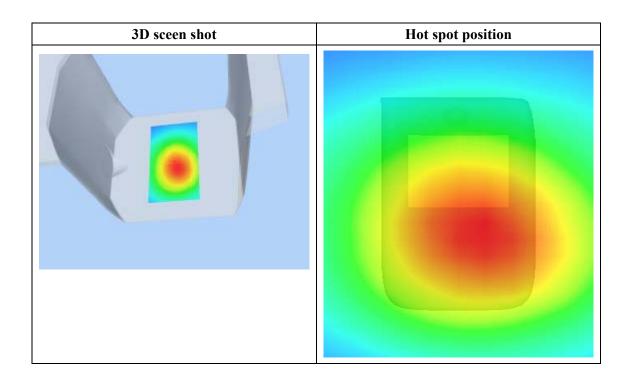
SAR 10g (W/Kg)	0.519522		
SAR 1g (W/Kg)	0.772422		

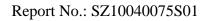




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7953	0.5676	0.3870	0.2835	0.2006	0.1441
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 9 minutes 12 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

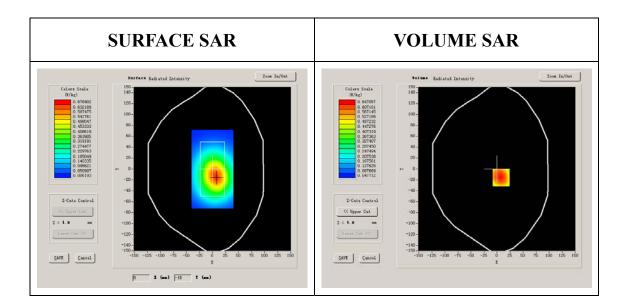
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850





Conductivity (S/m)	1.005962
Variation (%)	-2.050000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.3°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



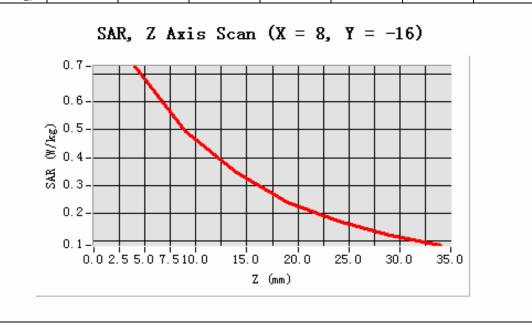
Maximum location: X=8.00, Y=-16.00

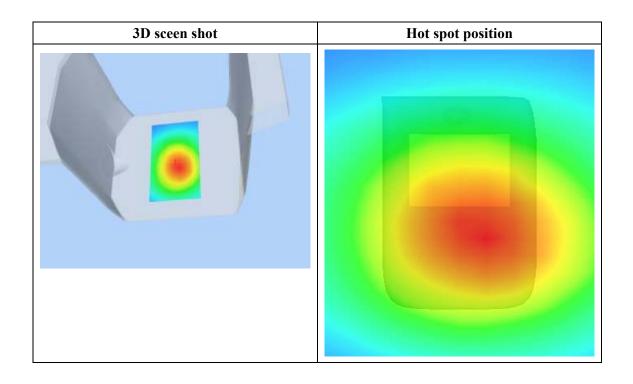
SAR 10g (W/Kg)	0.471604
SAR 1g (W/Kg)	0.703502

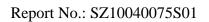




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7278	0.4929	0.3488	0.2423	0.1729	0.1208
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 9 minutes 13 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

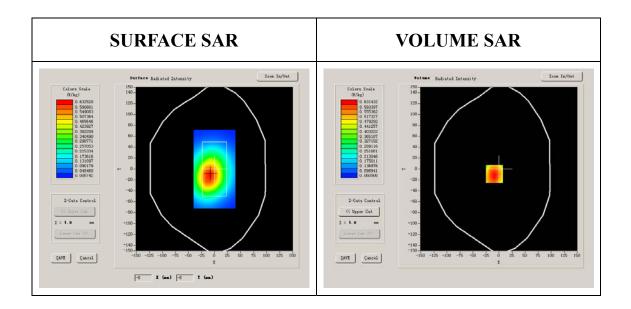
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550





Conductivity (S/m)	0.974596
Variation (%)	-0.280000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.3°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



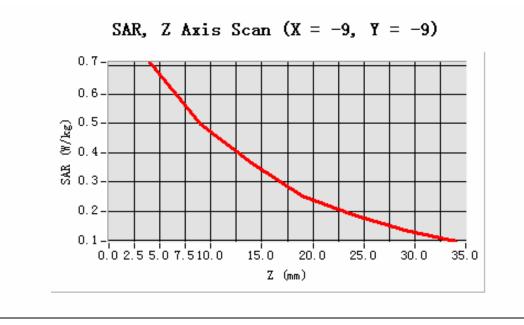
Maximum location: X=-9.00, Y=-9.00

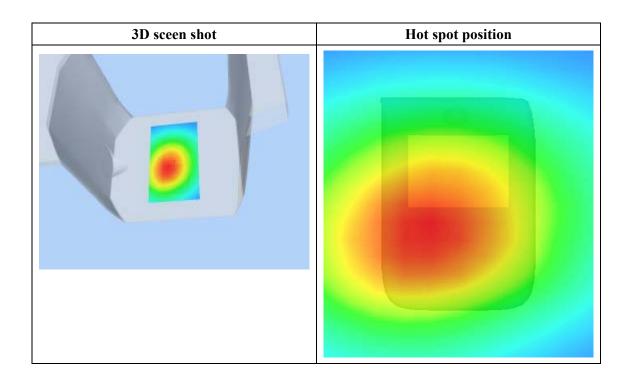
SAR 10g (W/Kg)	0.466627
SAR 1g (W/Kg)	0.685848





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7101	0.4963	0.3644	0.2522	0.1886	0.1346
(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: 1/6/2010

Measurement duration: 8 minutes 34 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

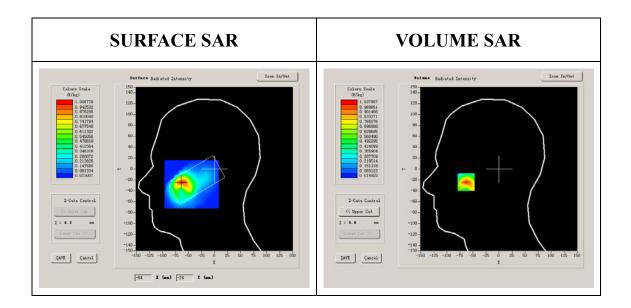
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650





Conductivity (S/m)	1.335397	
Variation (%)	-0.330000	
Ambient Temperature:	23.5°C	
Liquid Temperature:	22.8°C	
ConvF:	40.625,34.773,38.535	
Crest factor:	1:8	



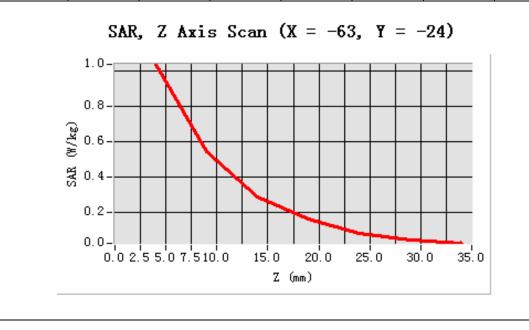
Maximum location: X=-63.00, Y=-24.00

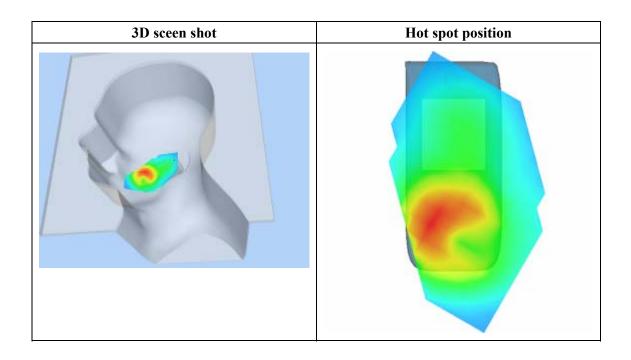
SAR 10g (W/Kg)	0.495459
SAR 1g (W/Kg)	0.959171





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.0379	0.5435	0.2910	0.1622	0.0856	0.0456
(W/Kg)							







Report No.: SZ10040075S01

MEASUREMENT 18

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 8 minutes 32 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

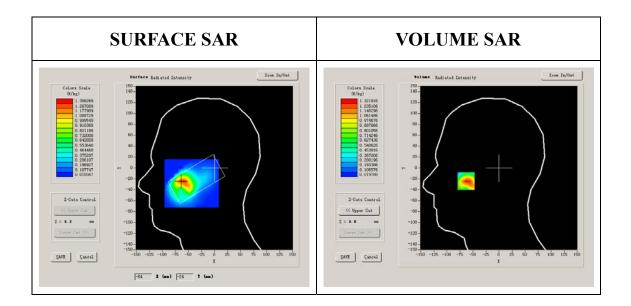
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000





Conductivity (S/m)	1.436111	
Variation (%)	-1.150000	
Ambient Temperature:	23.5°C	
Liquid Temperature:	22.8°C	
ConvF:	40.625,34.773,38.535	
Crest factor:	1:8	



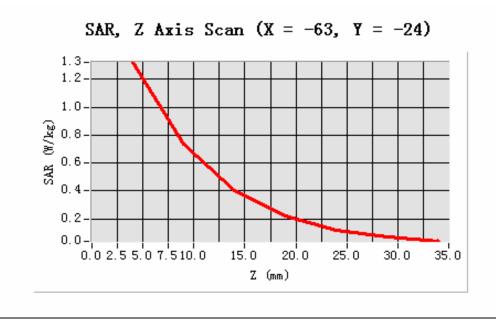
Maximum location: X=-63.00, Y=-24.00

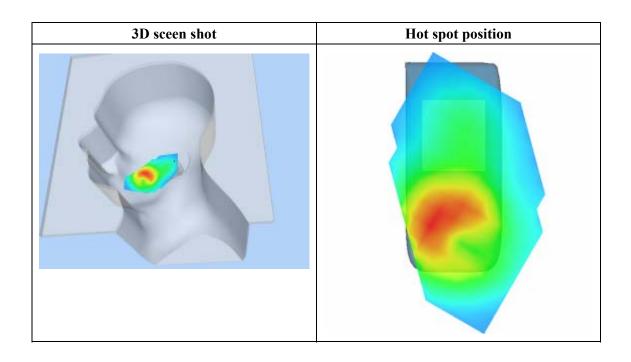
SAR 10g (W/Kg)	0.671635
SAR 1g (W/Kg)	1.261286





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.3219	0.7336	0.4065	0.2214	0.1165	0.0667
(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: 1/6/2010

Measurement duration: 7 minutes 59 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

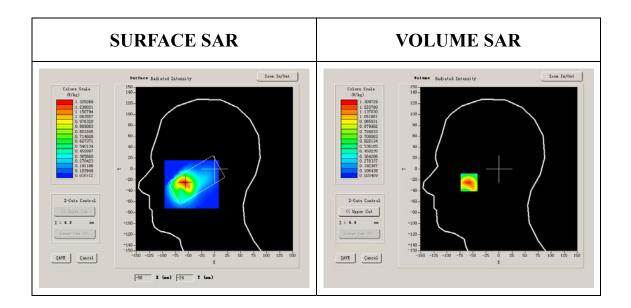
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500



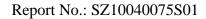


Conductivity (S/m)	1.395905
Variation (%)	-1.140000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:8



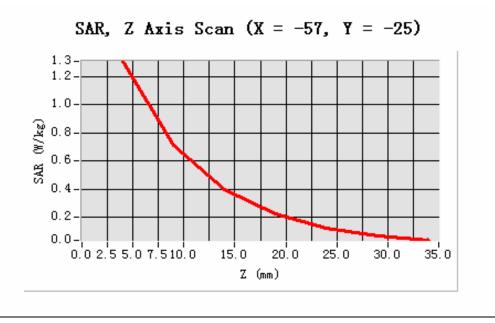
Maximum location: X=-57.00, Y=-25.00

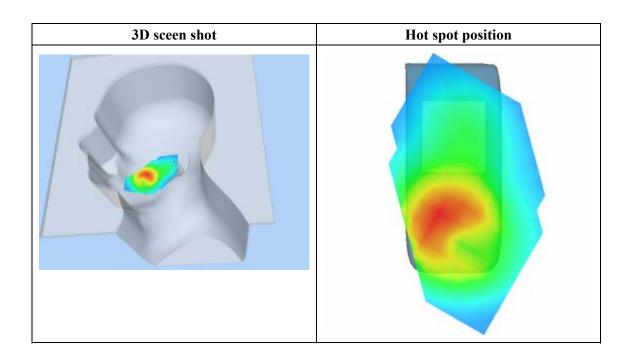
SAR 10g (W/Kg)	0.656807
SAR 1g (W/Kg)	1.229442





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.3097	0.7119	0.3976	0.2243	0.1219	0.0669
(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: 1/6/2010

Measurement duration: 7 minutes 26 seconds

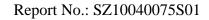
A. Experimental conditions.

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

B. SAR Measurement Results

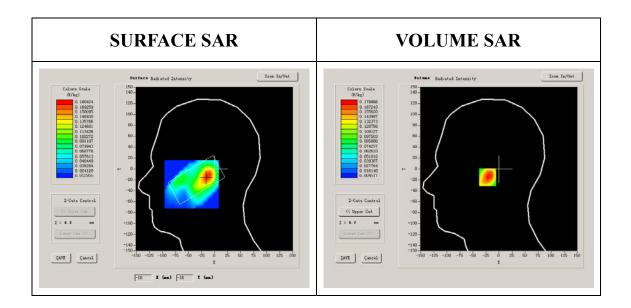
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650





Conductivity (S/m)	1.335397		
Variation (%)	-0.740000		
Ambient Temperature:	23.5°C		
Liquid Temperature:	22.8°C		
ConvF:	40.625,34.773,38.535		
Crest factor:	1:8		



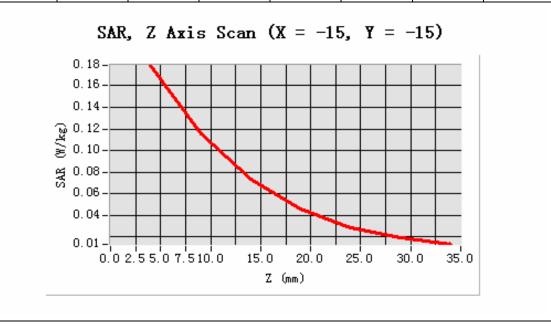
Maximum location: X=-15.00, Y=-15.00

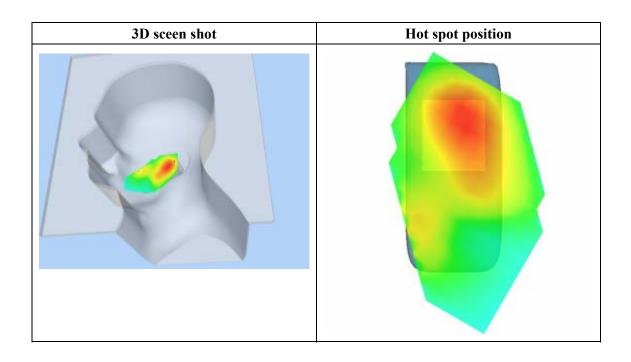
SAR 10g (W/Kg)	0.102568
SAR 1g (W/Kg)	0.170811





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1789	0.1151	0.0739	0.0458	0.0289	0.0196
(W/Kg)							







Report No.: SZ10040075S01

MEASUREMENT 21

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 44 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

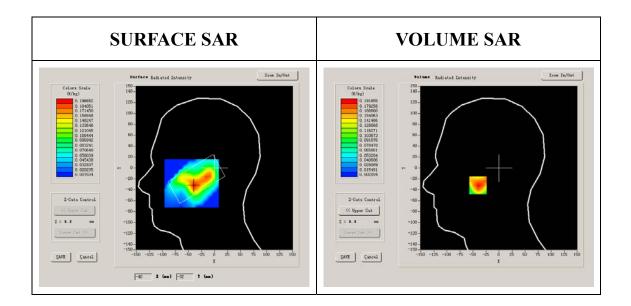
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000





Conductivity (S/m)	1.436111		
Variation (%)	-3.970000		
Ambient Temperature:	23.5°C		
Liquid Temperature:	22.8°C		
ConvF:	40.625,34.773,38.535		
Crest factor:	1:8		



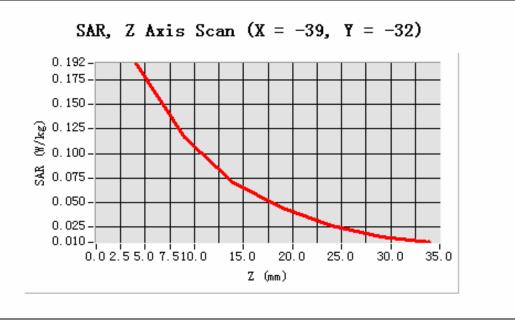
Maximum location: X=-39.00, Y=-32.00

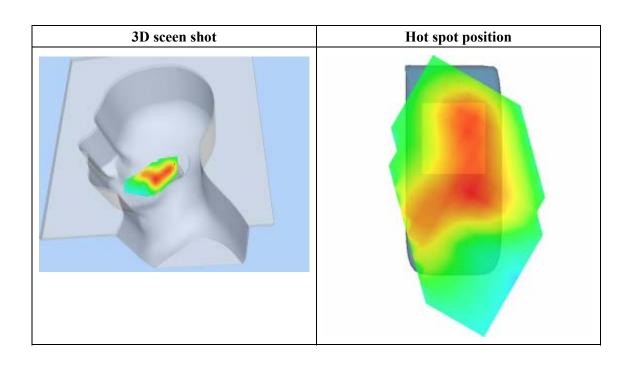
SAR 10g (W/Kg)	0.108563
SAR 1g (W/Kg)	0.183120

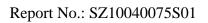




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1919	0.1162	0.0702	0.0439	0.0260	0.0153
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 44 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

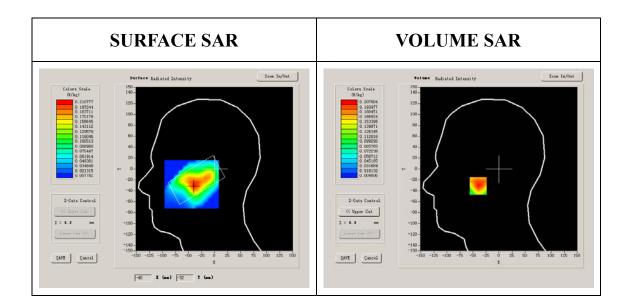
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500





Conductivity (S/m)	1.395905
Variation (%)	-2.820000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:8



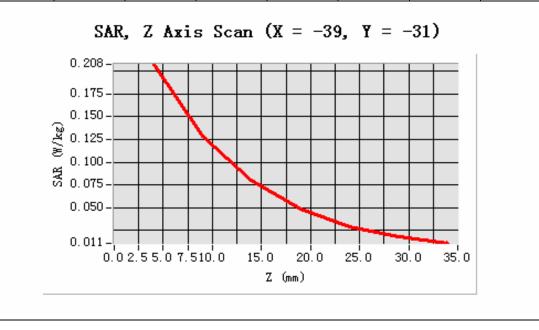
Maximum location: X=-39.00, Y=-31.00

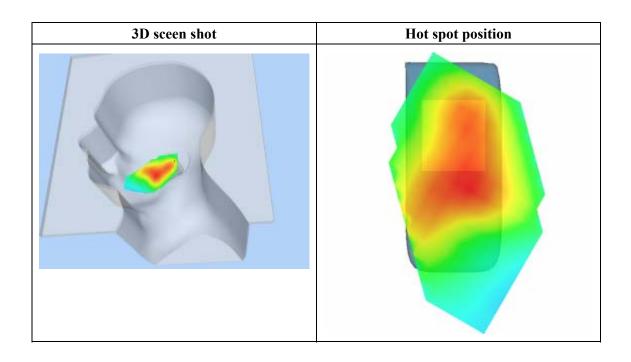
SAR 10g (W/Kg)	0.120674
SAR 1g (W/Kg)	0.197353

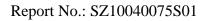




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2075	0.1288	0.0805	0.0488	0.0297	0.0179
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 42 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

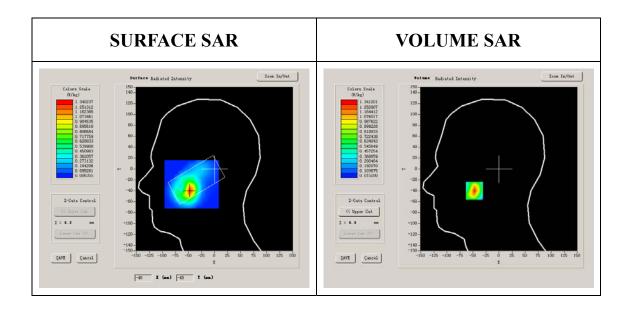
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650





Conductivity (S/m)	1.335397	
Variation (%)	-0.800000	
Ambient Temperature:	23.5°C	
Liquid Temperature:	22.8°C	
ConvF:	40.625,34.773,38.535	
Crest factor:	1:8	



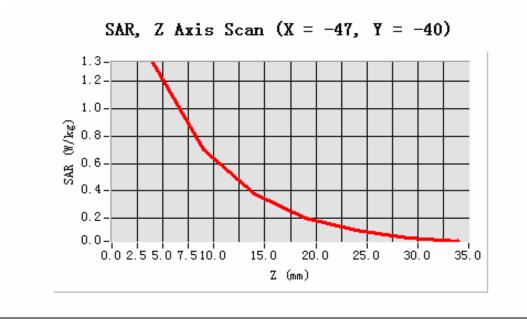
Maximum location: X=-47.00, Y=-40.00

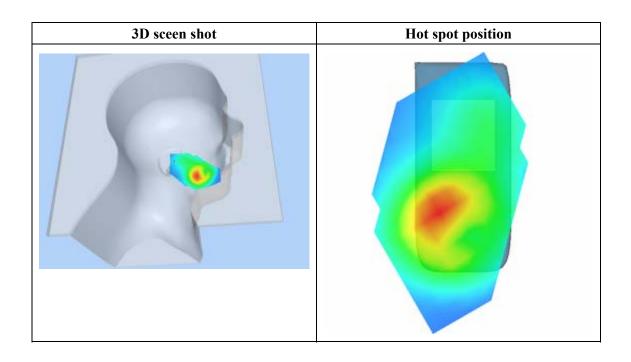
SAR 10g (W/Kg)	0.605558
SAR 1g (W/Kg)	1.218932





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.3412	0.7069	0.3768	0.2012	0.1096	0.0601
(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: 1/6/2010

Measurement duration: 7 minutes 47 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

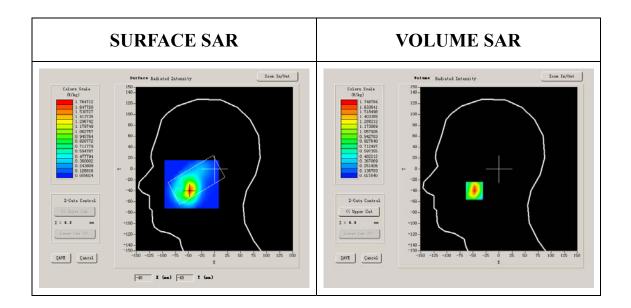
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000





Conductivity (S/m)	1.436111	
Variation (%)	0.830000	
Ambient Temperature:	23.5°C	
Liquid Temperature:	22.8°C	
ConvF:	40.625,34.773,38.535	
Crest factor:	1:8	



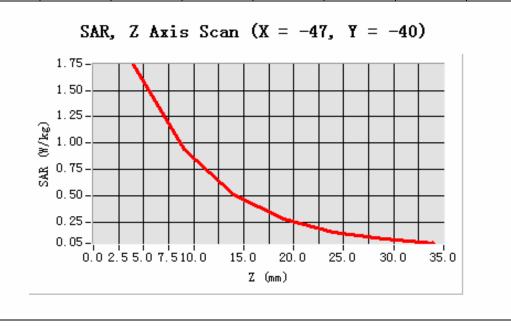
Maximum location: X=-47.00, Y=-40.00

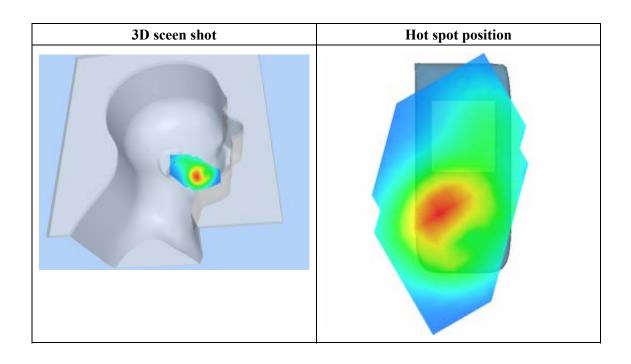
SAR 10g (W/Kg)	0.813492
SAR 1g (W/Kg)	1.406129

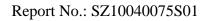




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.7488	0.9414	0.5068	0.2770	0.1506	0.0828
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 53 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

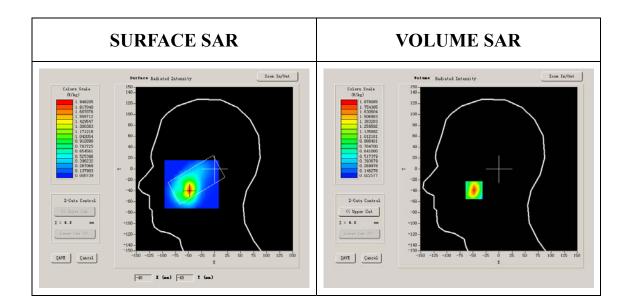
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049		
Relative permittivity (real part)	39.929001		
Relative permittivity	13.156500		





Conductivity (S/m)	1.395905
Variation (%)	-2.720000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:8



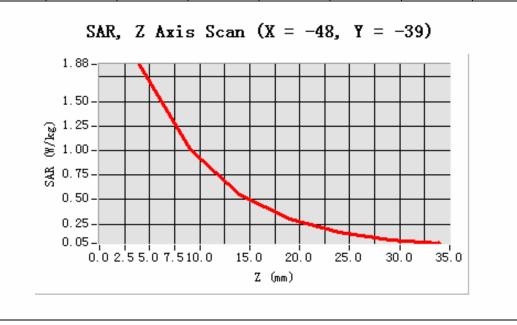
Maximum location: X=-48.00, Y=-39.00

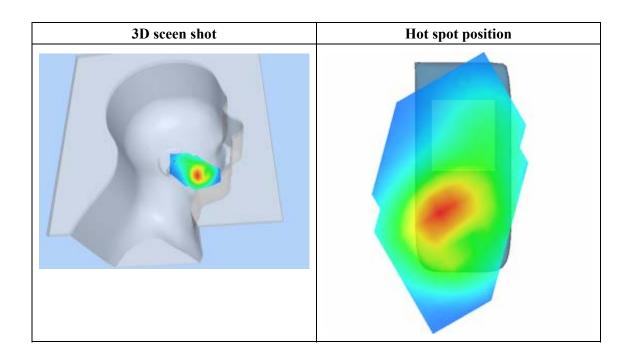
SAR 10g (W/Kg)	0.878165
SAR 1g (W/Kg)	1.521139

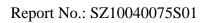




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.8781	1.0064	0.5508	0.2980	0.1651	0.0910
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 23 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

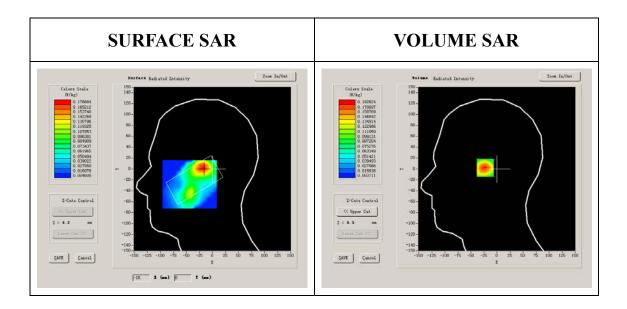
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650





Conductivity (S/m)	1.335397
Variation (%)	-0.030000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:8



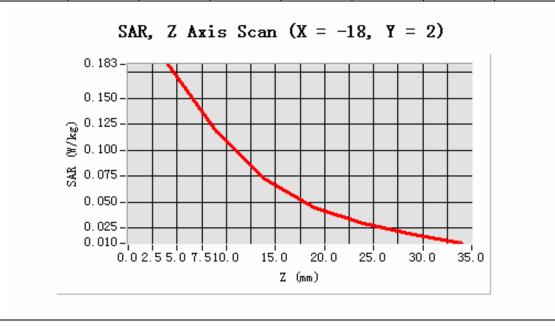
Maximum location: X=-18.00, Y=2.00

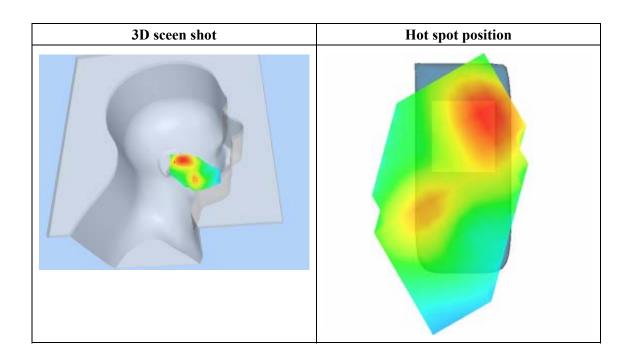
SAR 10g (W/Kg)	0.101253
SAR 1g (W/Kg)	0.171657

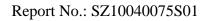




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1826	0.1181	0.0721	0.0445	0.0291	0.0189
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 7 minutes 40 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

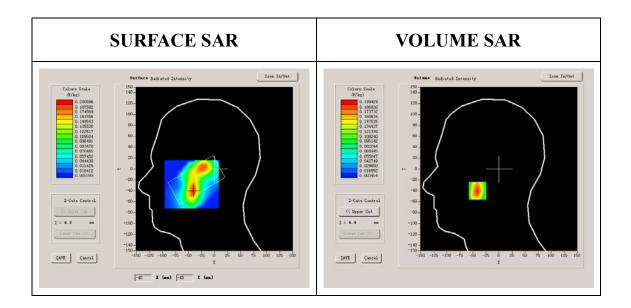
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000





Conductivity (S/m)	1.436111	
Variation (%)	0.370000	
Ambient Temperature:	23.5°C	
Liquid Temperature:	22.8°C	
ConvF:	40.625,34.773,38.535	
Crest factor:	1:8	



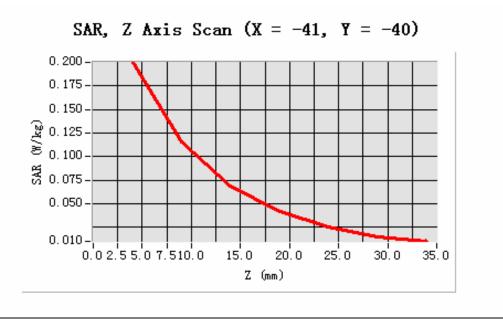
Maximum location: X=-41.00, Y=-40.00

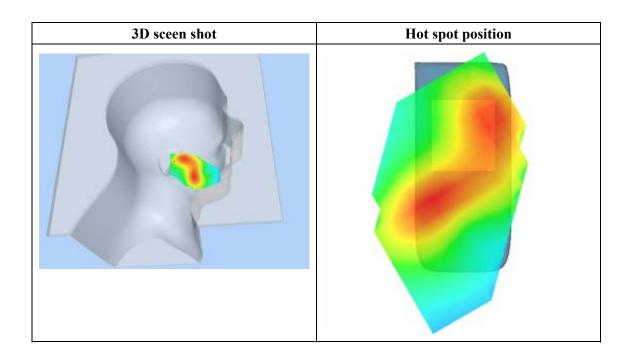
SAR 10g (W/Kg)	0.104953	
SAR 1g (W/Kg)	0.187603	





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1999	0.1154	0.0684	0.0418	0.0251	0.0149
(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: 1/6/2010

Measurement duration: 7 minutes 29 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

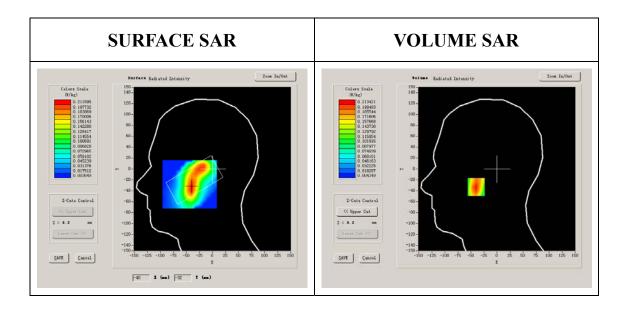
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500





Conductivity (S/m)	1.395905
Variation (%)	-0.260000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:8



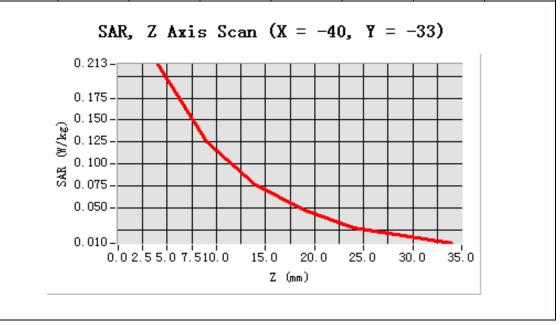
Maximum location: X=-40.00, Y=-33.00

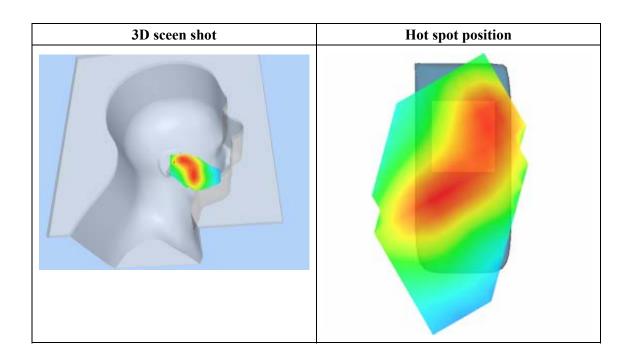
SAR 10g (W/Kg)	0.117390	
SAR 1g (W/Kg)	0.201755	

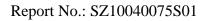




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2134	0.1248	0.0764	0.0470	0.0268	0.0180
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 9 minutes 8 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

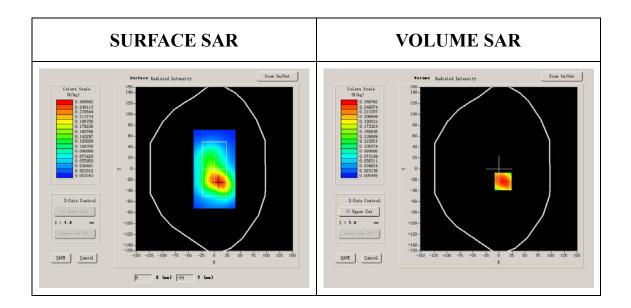
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	10.000000
Relative permittivity	12.000000





Conductivity (S/m)	1.233467	
Variation (%)	-0.770000	
Ambient Temperature:	23.5°C	
Liquid Temperature:	22.8°C	
ConvF:	40.625,34.773,38.535	
Crest factor:	1:8	



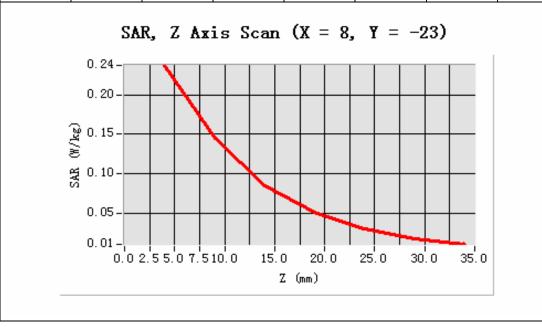
Maximum location: X=8.00, Y=-23.00

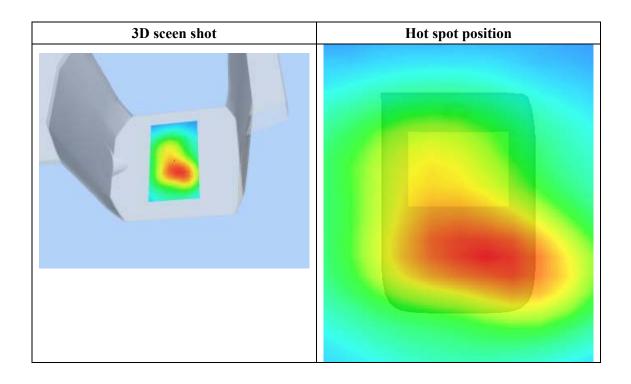
SAR 10g (W/Kg)	0.136361
SAR 1g (W/Kg)	0.227774





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2372	0.1441	0.0852	0.0503	0.0298	0.0171
(W/Kg)							









MEASUREMENT 30

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 9 minutes 4 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

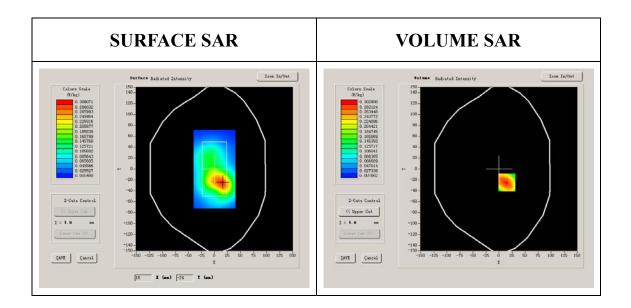
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	51.540001
Relative permittivity	15.070000



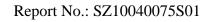


Conductivity (S/m)	1.573978
Variation (%)	-1.330000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:8



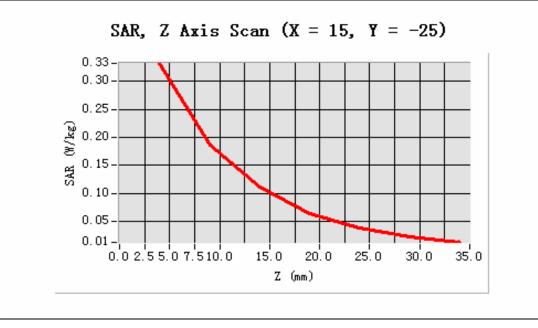
Maximum location: X=15.00, Y=-25.00

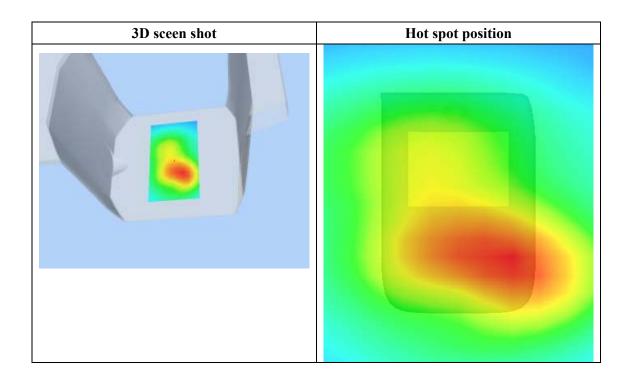
SAR 10g (W/Kg)	0.182157
SAR 1g (W/Kg)	0.314018





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3319	0.1868	0.1106	0.0636	0.0374	0.0219
(W/Kg)							









MEASUREMENT 31

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

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

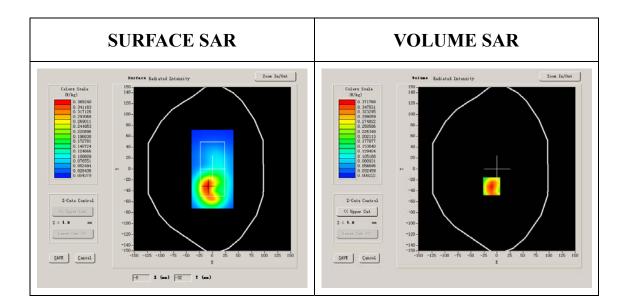
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	10.000000
Relative permittivity	12.000000





Conductivity (S/m)	1.273200	
Variation (%)	0.260000	
Ambient Temperature:	23.5°C	
Liquid Temperature:	22.8°C	
ConvF:	40.625,34.773,38.535	
Crest factor:	1:8	



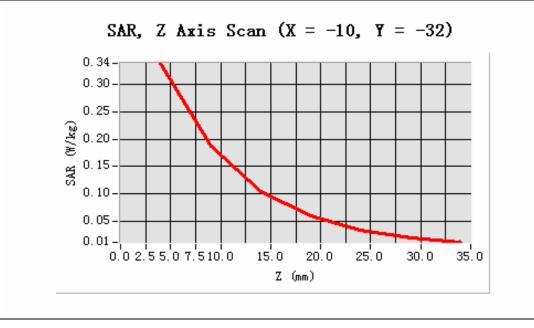
Maximum location: X=-10.00, Y=-32.00

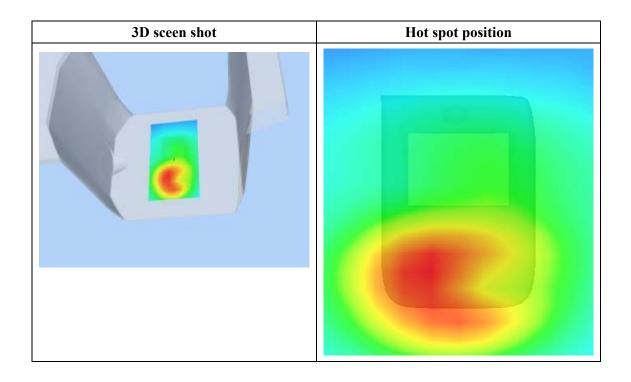
SAR 10g (W/Kg)	0.179853
SAR 1g (W/Kg)	0.321228

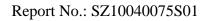




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3391	0.1870	0.1052	0.0596	0.0342	0.0199
(W/Kg)							









MEASUREMENT 32

Type: Phone measurement (Complete)

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

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

Date of measurement: 1/6/2010

Measurement duration: 9 minutes 3 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

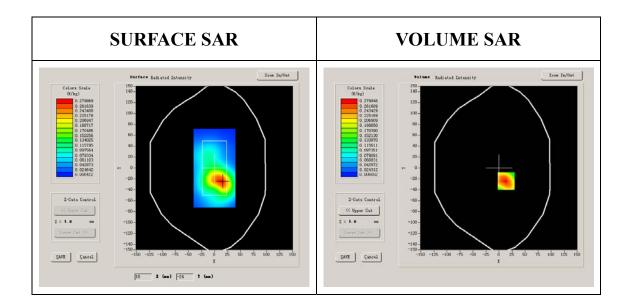
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049	
Relative permittivity (real part)	10.000000	
Relative permittivity	12.000000	





Conductivity (S/m)	1.273200	
Variation (%)	-1.300000	
Ambient Temperature:	23.5°C	
Liquid Temperature:	22.8°C	
ConvF:	40.625,34.773,38.535	
Crest factor:	1:8	



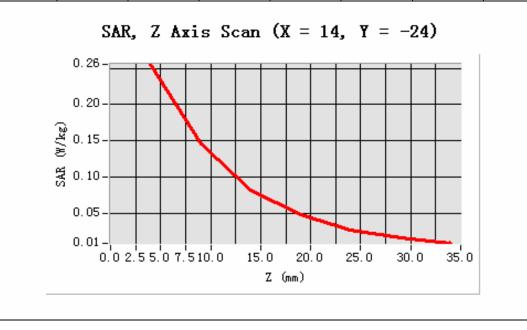
Maximum location: X=14.00, Y=-24.00

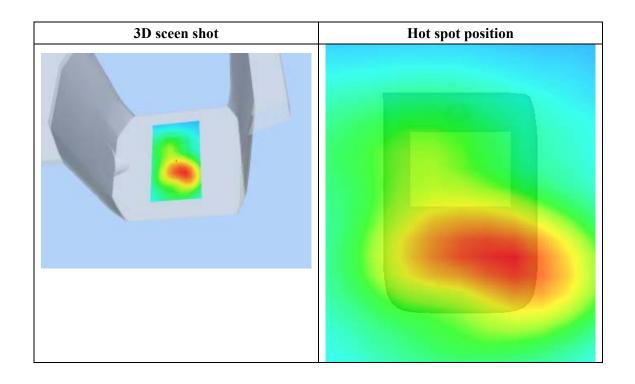
SAR 10g (W/Kg)	0.138990	
SAR 1g (W/Kg)	0.242551	

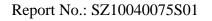




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2553	0.1461	0.0824	0.0489	0.0283	0.0166
(W/Kg)							









System Performance Check Data(835MHz Head)

Type: Phone measurement (Complete)

Date of measurement: 1/6/2010

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

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

A. Experimental conditions.

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

B. SAR Measurement Results

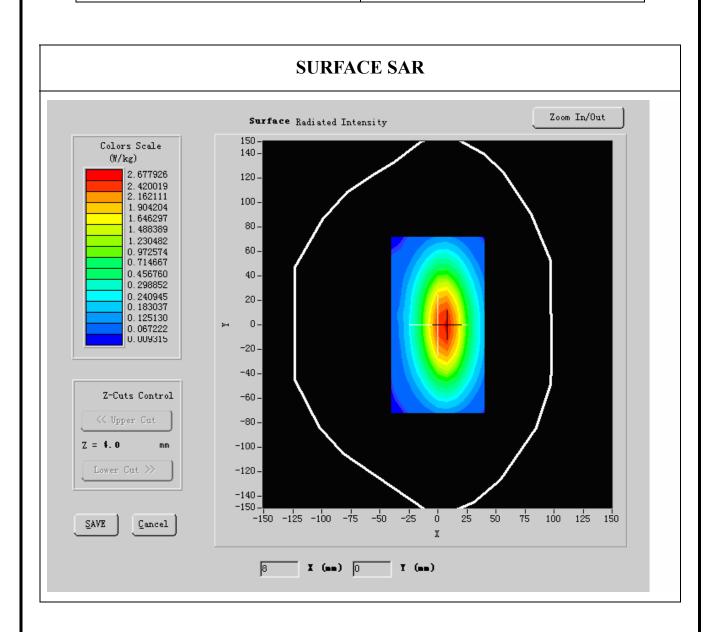
Middle Band SAR:

Frequency (MHz)	835.00000	
Relative permittivity (real part)	41.790001	
Relative permittivity	18.926250	
Conductivity (S/m)	0.888655	





Variation (%)	-0.050000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.3°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:1		

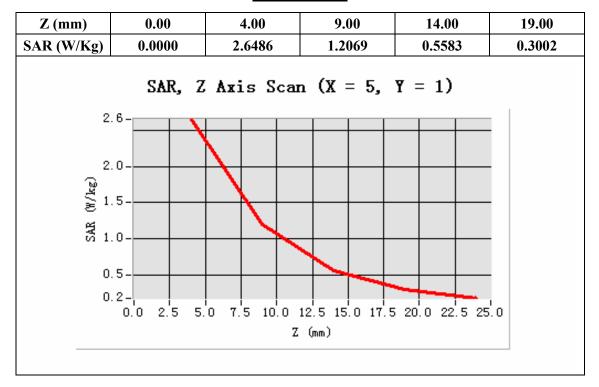


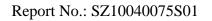
Maximum location: X=5.00, Y=1.00





SAR 10g (W/Kg)	1.896866		
SAR 1g (W/Kg)	2.734464		







System Performance Check Data(835MHz Body)

Type: Phone measurement (Complete)

Date of measurement: 1/6/2010

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

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

A. Experimental conditions.

ī-	-
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM 835MHz
Channels	
Signal	CW

B. SAR Measurement Results

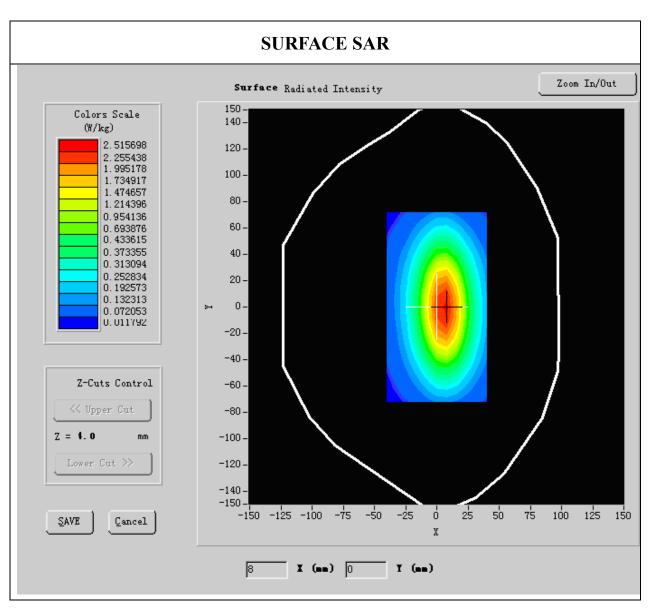
Middle Band SAR:

Frequency (MHz)	835.000000	
Relative permittivity (real part)	54.014999	
Relative permittivity	15.070000	
Conductivity (S/m)	1.009033	





Variation (%)	-0.140000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	28.559,25.681,27.588
Crest factor:	1:1

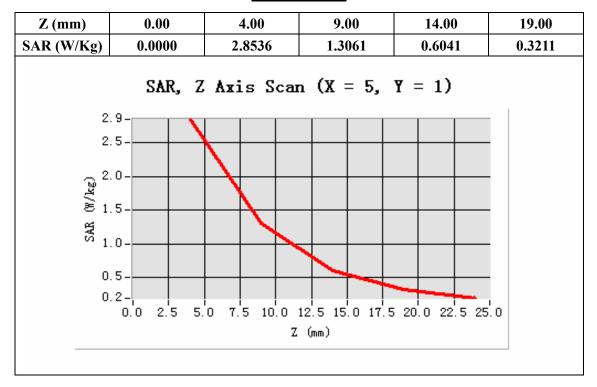


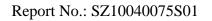
Maximum location: X=5.00, Y=1.00





SAR 10g (W/Kg)	1.696888
SAR 1g (W/Kg)	2.752635







System Performance Check Data(1900MHz Head)

Type: Phone measurement (Complete)

Date of measurement: 1/6/2010

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

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

A. Experimental conditions.

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

B. SAR Measurement Results

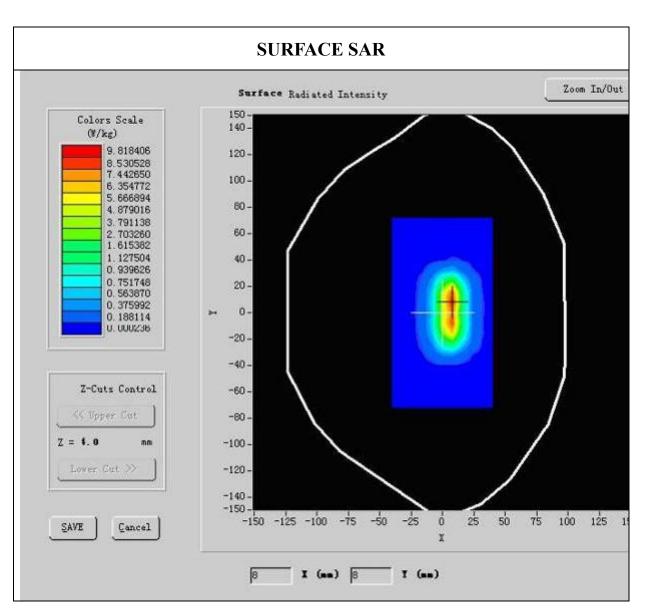
Lower Band SAR:

Frequency (MHz)	1900.000000
Relative permittivity (real part)	39.481223
Relative permittivity	12.991650
Conductivity (S/m)	1.395758





Variation (%)	0.570000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

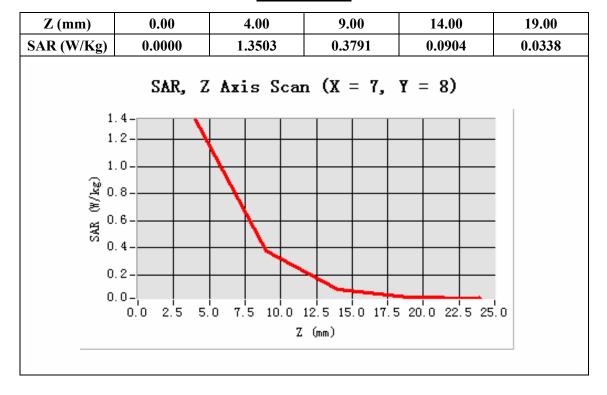


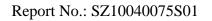
Maximum location: X=7.00, Y=8.00





SAR 10g (W/Kg)	5.957757
SAR 1g (W/Kg)	9.857499







System Performance Check Data(1900MHz Body)

Type: Phone measurement (Complete)

Date of measurement: 1/6/2010

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

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

A. Experimental conditions.

ī-	-
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	
Signal	CW

B. SAR Measurement Results

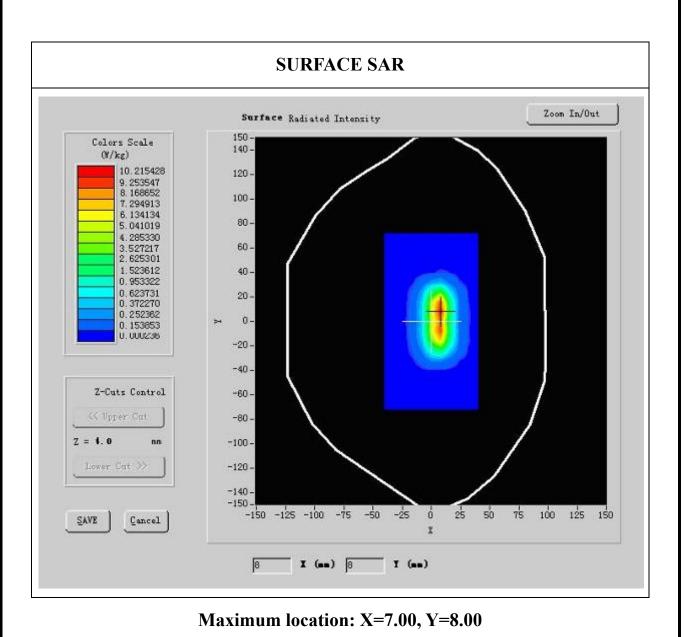
Lower Band SAR:

Frequency (MHz)	1900.000000
Relative permittivity (real part)	51.540001
Relative permittivity (imaginary	12.991650
part)	





Conductivity (S/m)	1.573978
Variation (%)	0.570000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1







SAR 10g (W/Kg)	5.545777
SAR 1g (W/Kg)	9.895635

