FCC SAR

TEST REPORT

of

GSM Dual Band GPRS Digital Mobile Phone

Model Name: ZMKN1200
Trade Name: ZONDA
Report No.: SZ09010029S01
FCC ID: UT3KK602

prepared for

SHENZHEN KONKA TELECOMMUNICATIONS TECHNOLOGY CO., LTD.
ShenNan Road 9008, Overseas Chinese Town, Shenzhen, Guangdong, China

pidrepared by:

Shenzhen Electronic Product Quality Testing Center
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Contents

1. General Information

1.1. Notes

The test results of this test report relate exclusively to the information specified in section 3.3. Shenzhen Electronic Product Quality Testing Center 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 Electronic Product Quality Testing Center 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.:	SZ09010029S01
Date of Issue:	Feb 2, 2009
Date of Tests:	Feb 2, 2009 –Feb 2, 2009
Responsible for Accreditation:	Zeng dexin
Project Manager:	Li Lei
Deputy Project Manager:	Liao Jianming

1.3. Conclusion

Shenzhen Electronic Product Quality Testing Center Morlab Laboratory has verified that all tests as listed in the section 4.5 of this report haven been performed successfully with the tested equipment.

Li Lei
Tested by
(Responsible for the Test Report)

Liao Jianming
Reviewed by
(Verification of the Test Report)

Zeng dexin
Approved by
(Responsible Test Lab Manager)

2. Testing Laboratory

2.1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Electronic Product Quality Testing Center
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 Electronic Product Quality Testing Center 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 L1659 (see 0)

2.4. List of Test Equipments

No.	Instrument	Type
1	PC	Dell (Pentium IV 2.4GHz, SN:X10-23533)
2	Network Emulator	Rohde&Schwarz (CMU200, SN:105894)
3	Voltmeter	Keithley (2000, SN:1000572)
4	Synthetizer	Rohde&Schwarz (SML_03, SN:101868)
5	Amplifier	Nucl 閏 udes (ALB216, SN:10800)
6	Power Meter	Rohde&Schwarz (NRVD, SN:101066)
7	Probe	Antennessa (SN:SN_3708_EP80)
8	Phantom	Antennessa (SN:SN_36_08_SAM62)
9	Liquid	Antennessa (Last Calibration:21 08 04)

3. Technical Information

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

3.1. Identification of Applicant

Company Name:	SHENZHEN KONKA TELECOMMUNICATIONS TECHNOLOGY CO., LTD
Address:	ShenNan Road 9008, Overseas Chinese Town, Shenzhen, Guangdong, China
Contact Person:	Lu Xiao Tao
Telephone:	0755-26917119
Facsimile:	0755-26919049
E-mail:	luxiaotao@konka.com

3.2. Identification of Manufacturer

Company Name:	SHENZHEN KONKA TELECOMMUNICATIONS TECHNOLOGY CO., LTD
Address:	ShenNan Road 9008, Overseas Chinese Town, Shenzhen, Guangdong, China
Contact Person:	Lu Xiao Tao
Telephone:	0755-26917119
Facsimile:	0755-26919049
E-mail:	luxiaotao@konka.com

3.3. Equipment Under Test (EUT)

Brand Name:	ZONDA
Type Name:	ZONDA
Marking Name:	ZMKN1200
Hardware Version:	V1.2
Software Version:	KAA602FM_MXA_En_Fr_Sp_90.923
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
Accessories:	Charger; Battery
Battery Model:	ZONDA

Battery specification: 800mAh 3.7V

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	IMEI	Hardware Version	Software Version
1#	135790246811220	V1.2	KAA602FM_MXA_En_Fr_Sp_90.923
2#	135790246811220	V1.2	KAA602FM_MXA_En_Fr_Sp_90.923

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 Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01)**	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields
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 Techuiques.

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)	=	3.60V
	High 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 125, 190 and 251 respectively in the case of GSM 850 MHz, or to 512, 661 and 810 respectively in the case of DCS 1800 MHz, 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

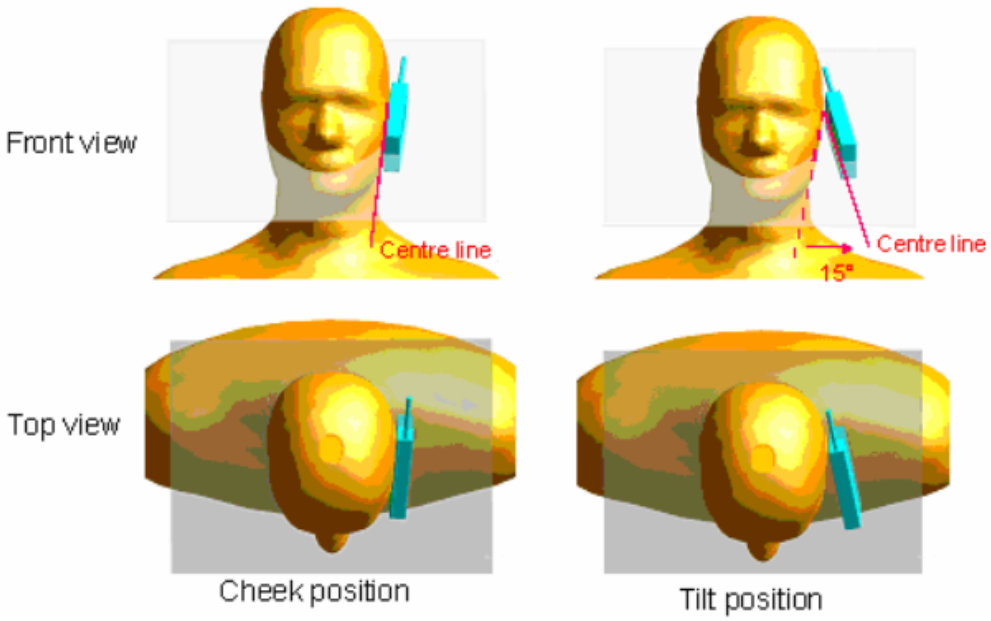
I.1. Normative reference

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:

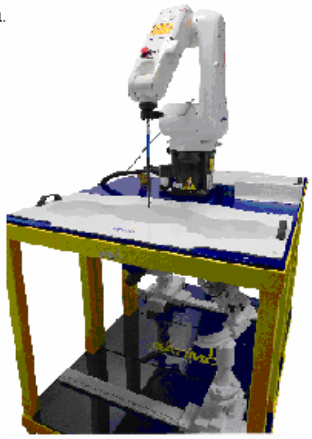
The mobile phone is well place in the “cheek” position as described above. Then the mobile phone is moved outward away from the mouth by an angle of 15 degrees or until contact with the ear lost.

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.

II.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	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 (+-%)	Vi
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	$\sqrt{3}$	$(1-Cp)^{1/2}$	$(1-Cp)^{1/2}$	1.02	1.02	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	$\sqrt{Cp}$	$\sqrt{Cp}$	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	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	∞
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	$\sqrt{3}$	1	1	2.75	2.75	∞
Phantom and Tissue Parameters									
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	0.57	R	$\sqrt{3}$	0.64	0.43	0.21	0.14	∞

Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	M
Liquid permittivity - deviation from target value	E.3.2	3.66	R	$\sqrt{3}$	0.6	0.49	1.27	1.04	∞
Liquid permittivity - measurement uncertainty	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
Combined Standard Uncertainty			RSS				11.28	10.78	
Expanded Uncertainty (95% Confidence interval)			k				21.99	21.03	

4.3.4. Equipments and results of validation testing

Equipments :

name	Type and specification
Signal generator	E4433B
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	2.709 W/Kg (head) 2.701 W/Kg (body)	9.843 W/Kg (head) 10.22 W/Kg (body)
Test value (1g)	10.836 W/Kg (head) 10.804 W/Kg (body)	39.372 W/Kg (head) 40.88 W/Kg (body)

Note:Please refer to check the system performance data, the first 127-138 page.

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 (Feb 2)	835 MHZ	41.790001	0.896612
Target value	1900 MHZ	40	1.40
Validation value (Feb 2)	1900 MHZ	39.481223	1.395758

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	10.5
Validation value (Feb 2)	835 MHz	54.872231	10.548224

Target value	1900 MHz	53.3	1.52
Validation value (Feb 2)	1900 MHz	52.548876	1.573978

4.3.6. Simulant liquids

Simulant liquids that are used for testing at frequencies of 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 (% by weight)	Frequency Band 835MHz		Frequency Band 1900MHz	
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 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 SAR (W/kg)	1 g Average	
	1.6	
Test Case	Measurement Result (W/kg)	
	1 g Average (W/kg)	Power level (dBm)
Left head, Touch cheek, Channel Low	0.088	31.2
Left head, Touch cheek, Channel Middle	0.167	31.56
Left head, Touch cheek, Channel High	0.305	31.96
Left head, Tilt 15 Degree, Channel Low	0.057	31.2
Left head, Tilt 15 Degree, Channel Middle	0.107	31.56
Left head, Tilt 15 Degree, Channel High	0.205	31.96
Right head, Touch cheek, Channel Low	0.122	31.2
Right head, Touch cheek, Channel Middle	0.210	31.56
Right head, Touch cheek, Channel High	**0.368**	31.96
Right head, Tilt 15 Degree, Channel Low	0.073	31.2
Right head, Tilt 15 Degree, Channel Middle	0.134	31.56
Right head, Tilt 15 Degree, Channel High	0.256	31.96
Right head, Touch cheek, Channel High（with GPRS）	1.184	31.96

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	
	1.6	
Test Case	Measurement Result (W/kg)	
	1 g Average (W/kg)	Power level (dBm)
Left head, Touch cheek, Channel Low	0.028	28.78
Left head, Touch cheek, Channel Middle	0.043	28.82
Left head, Touch cheek, Channel High	0.095	28.56
Left head, Tilt 15 Degree, Channel Low	0.016	28.78
Left head, Tilt 15 Degree, Channel Middle	0.034	28.82
Left head, Tilt 15 Degree, Channel High	0.074	28.56

Right head, Touch cheek, Channel Low	0.025	28.78
Right head, Touch cheek, Channel Middle	0.039	28.82
Right head, Touch cheek, Channel High	0.079	28.56
Right head, Tilt 15 Degree, Channel Low	0.014	28.78
Right head, Tilt 15 Degree, Channel Middle	0.047	28.82
Right head, Tilt 15 Degree, Channel High	0.093	28.56

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	
	1.6	
Test Case	Measurement Result (W/kg)	
	1 g Average (W/kg)	Power level (dBm)
Side, Low frequency	0.215	31.2
Side, Middle frequency	0.317	31.56
Side, High frequency	0.392	31.96
Side , High frequency(with Headphone)	0.145	31.96
Side , High frequency(back)	0.355	31.96

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	
	1.6	
Test Case	Measurement Result (W/kg)	
	1 g Average (W/kg)	Power level (dBm)
Side, Low frequency	0.039	28.78
Side, Middle frequency	0.032	28.82
Side, High frequency	0.060	28.56
Side , High frequency(back)	0.045	28.56

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)

Accreditation Certificate

China National Accreditation Service for Conformity Assessment

LABORATORY ACCREDITATION CERTIFICATE

(No. CNAS L1659)

China National Accreditation Service for Conformity Assessment has accredited

Shenzhen Electronic Product Quality Testing Center
(CQCS Testing Co. Ltd.)
Electronic Testing Building Wenguang Road, Shahe West, Xili Town, Nanshan District, Shenzhen, Guangdong, China

to ISO/IEC 17025:1999 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing and calibration.

The scope of accreditation is detailed in the attached schedule bearing the same accreditation number as above. The schedule forms an integral part of this certificate.

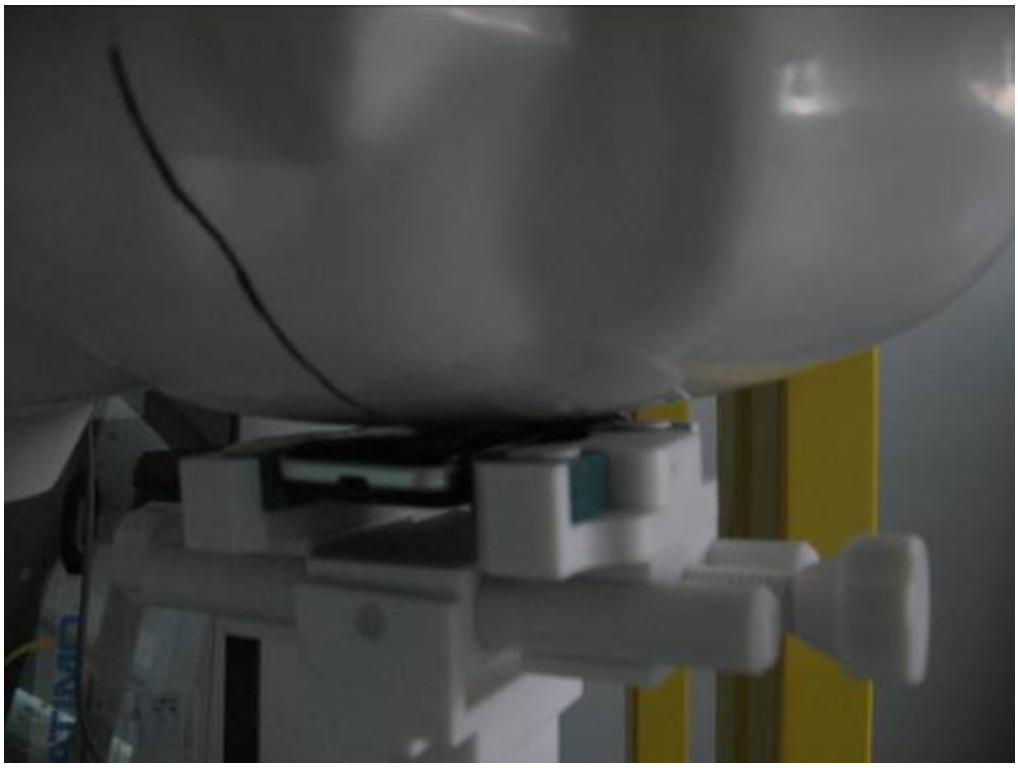
Date of Issue: 2007-01-17
Date of Expiry: 2009-10-08
Date of Initial Accreditation: 1999-08-03

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment(CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation systems for conformity assessment. CNAS is the signatory to International Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (ILAC MRA), and the signatory to Asia Pacific Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (APLAC MRA).

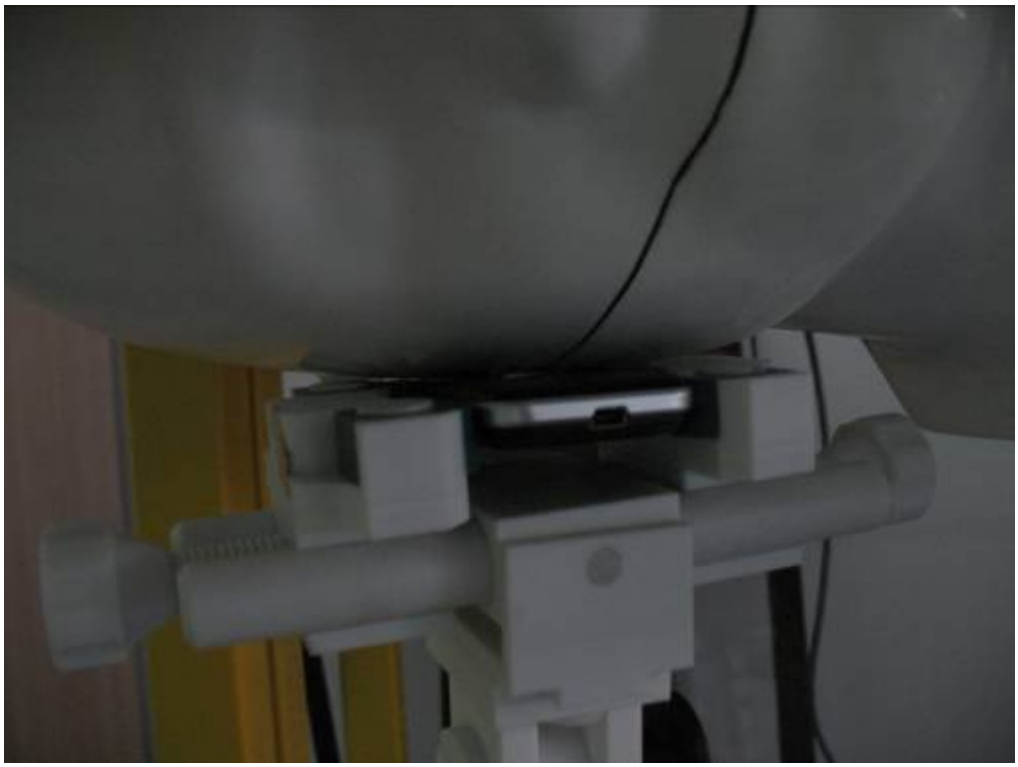
Annex A Photographs of the EUT

1 EUT Left Head Touch Cheek Position



2 EUT Left Head Tilt15 Position

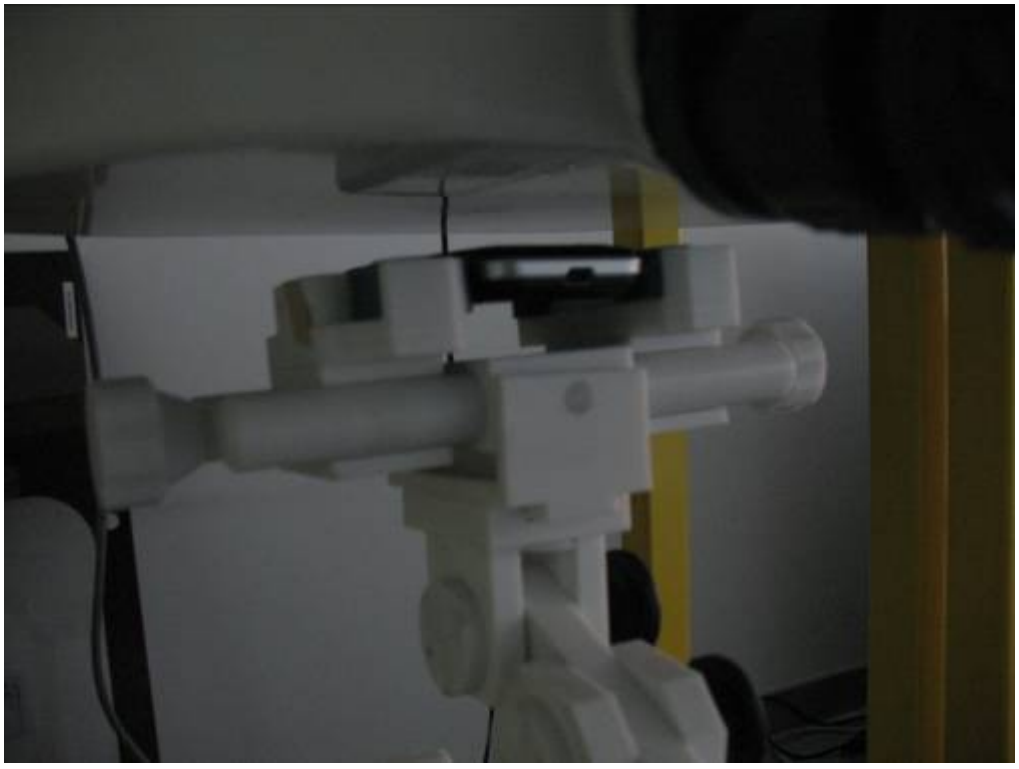
3 EUT Right Head Touch Cheek Position



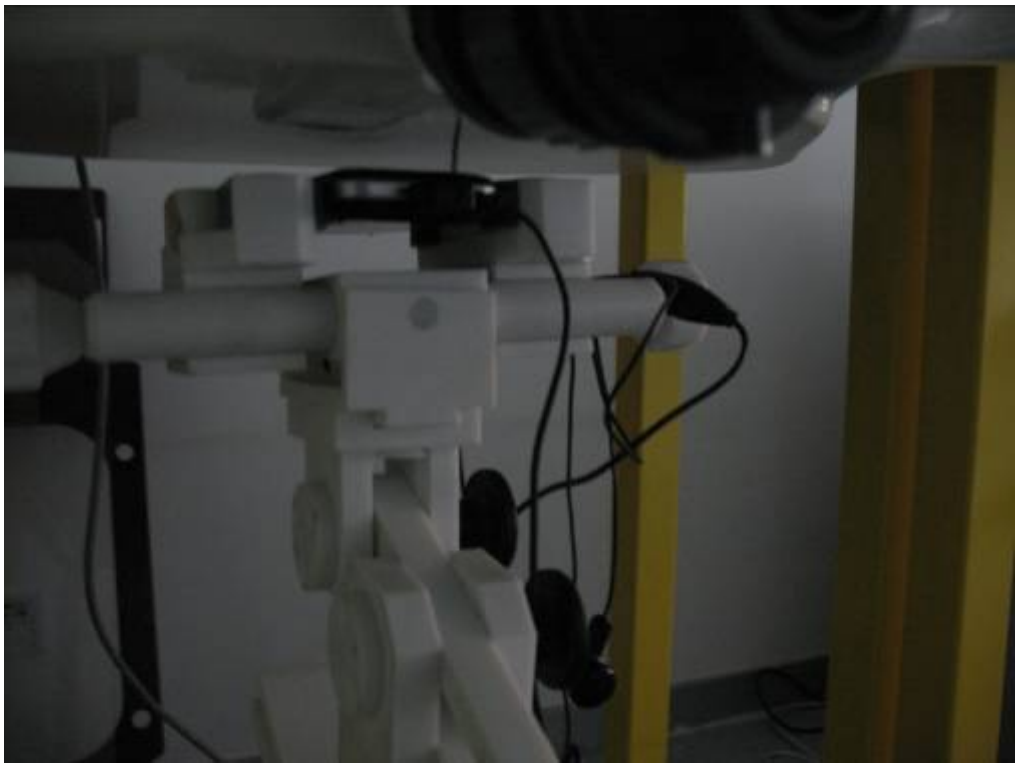
4 EUT Right Head Tilt15 Position

5 spacer 1.5cm

6 Side Position



7 Side Position EUT with Headphone



Annex B Graph Test Results

TYPE	BAND	PARAMETERS
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Noise	**GSM850**	Measurement 1: Right Head with Cheek device position on Low Channel in TDMA mode Measurement 2: Right Head with Cheek device position on Middle Channel in TDMA mode Measurement 3: Right Head with Cheek device position on High Channel in TDMA mode Measurement 4: Right Head with Tilt device position on Low Channel in TDMA mode Measurement 5: Right Head with Tilt device position on Middle Channel in TDMA mode Measurement 6: Right Head with Tilt device position on High Channel in TDMA mode Measurement 7: Left Head with Cheek device position on Low Channel in TDMA mode Measurement 8: Left Head with Cheek device position on Middle Channel in TDMA mode Measurement 9: Left Head with Cheek device position on High Channel in TDMA mode Measurement 10: Left Head with Tilt device position on Low Channel in TDMA mode Measurement 11: Left Head with Tilt device position on Middle Channel in TDMA mode Measurement 12: Left Head with Tilt device position on High Channel in TDMA mode_ Measurement 13: Right Head with Cheek device position on High Channel in TDMA mode (with GPRS) Measurement 14: Validation Plane with Body device position on Low Channel in TDMA mode Measurement 15: Validation Plane with Body device position on Middle Channel in TDMA mode Measurement 16: Validation Plane with Body device position on High Channel in TDMA mode Measurement 17: Validation Plane with Body device

		position on High Channel in TDMA mode(back) Measurement 18: Validation Plane with Body device position on High Channel in TDMA mode (with Headphone)
	GSM1900	Measurement 19: Right Head with Cheek device position on Low Channel in TDMA mode Measurement 20: Right Head with Cheek device position on Middle Channel in TDMA mode Measurement 21: Right Head with Cheek device position on High Channel in TDMA mode Measurement 22: Right Head with Tilt device position on Low Channel in TDMA mode Measurement 23: Right Head with Tilt device position on Middle Channel in TDMA mode Measurement 24: Right Head with Tilt device position on High Channel in TDMA mode Measurement 25: Left Head with Cheek device position on Low Channel in TDMA mode Measurement 26: Left Head with Cheek device position on Middle Channel in TDMA mode Measurement 27: Left Head with Cheek device position on High Channel in TDMA mode Measurement 28: Left Head with Tilt device position on Low Channel in TDMA mode Measurement 29: Left Head with Tilt device position on Middle Channel in TDMA mode Measurement 30: Left Head with Tilt device position on High Channel in TDMA mode Measurement 31: Validation Plane with Body device position on Low Channel in TDMA mode Measurement 32: Validation Plane with Body device position on Low Channel in TDMA mode Measurement 33: Validation Plane with Body device position on High Channel in TDMA mode(back) Measurement 34: Validation Plane with Body device position on High Channel in TDMA mode(back)

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

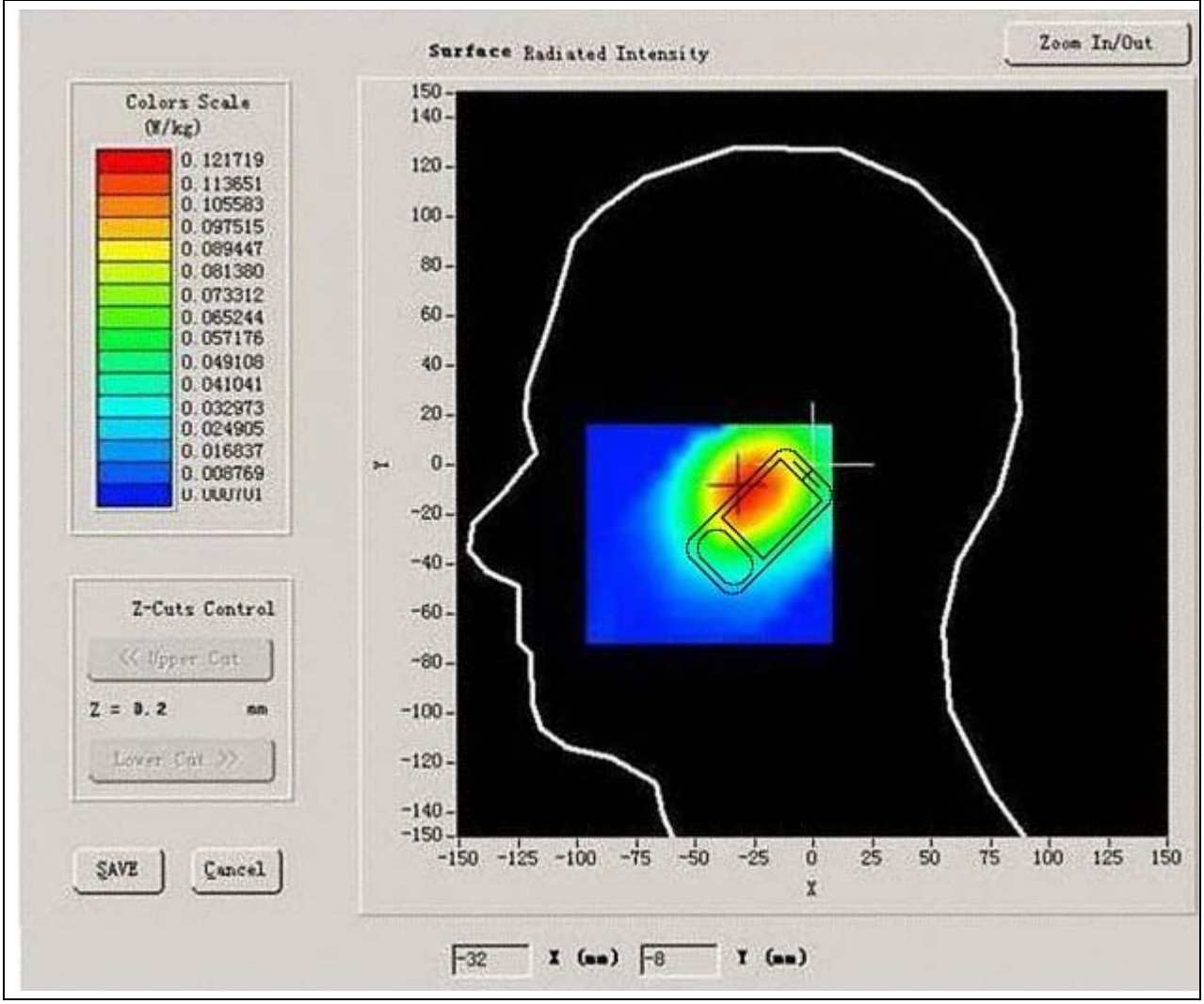
B. SAR Measurement Results

Lower Band SAR (Channel 128):

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

Conductivity (S/m)	0.866612
Variation (%)	-2.970000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

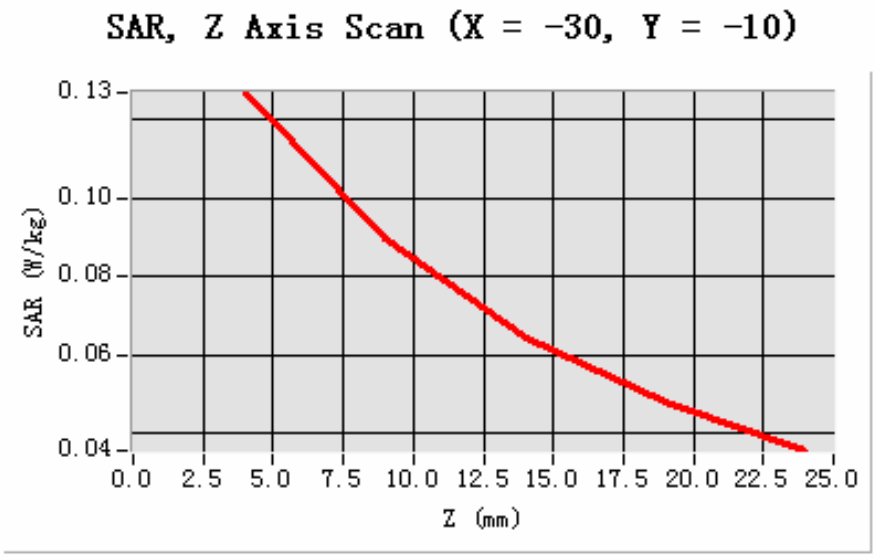


Maximum location: X=-30.00, Y=-10.00

SAR 10g (W/Kg)	0.081130
SAR 1g (W/Kg)	0.121557

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1269	0.0896	0.0646	0.0479



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

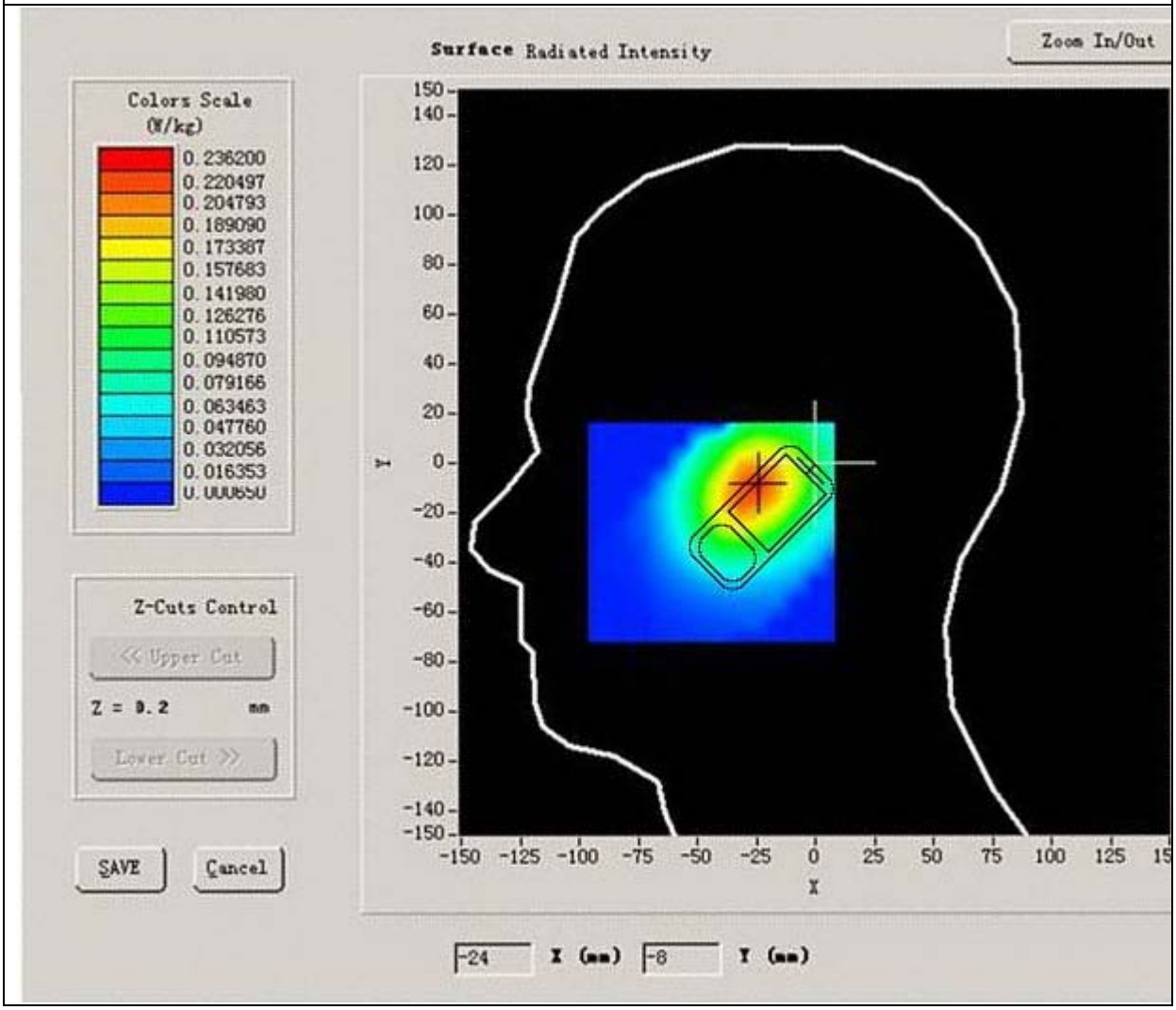
B. SAR Measurement Results

Middle Band SAR (Channel 190):

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

Conductivity (S/m)	0.888655
Variation (%)	-1.980000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

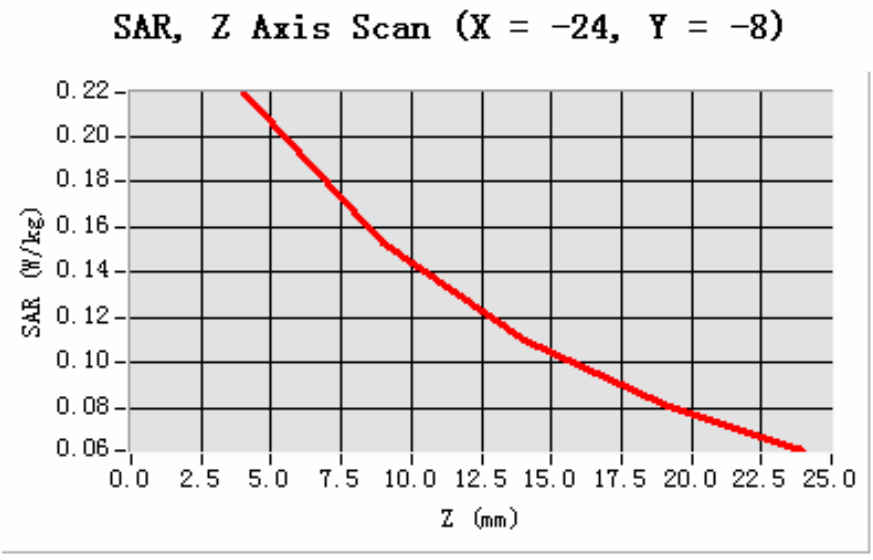


Maximum location: X=-24.00, Y=-8.00

SAR 10g (W/Kg)	0.140832
SAR 1g (W/Kg)	0.210023

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2195	0.1534	0.1100	0.0819



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

Phantom File	zinf5.txt
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	TDMA

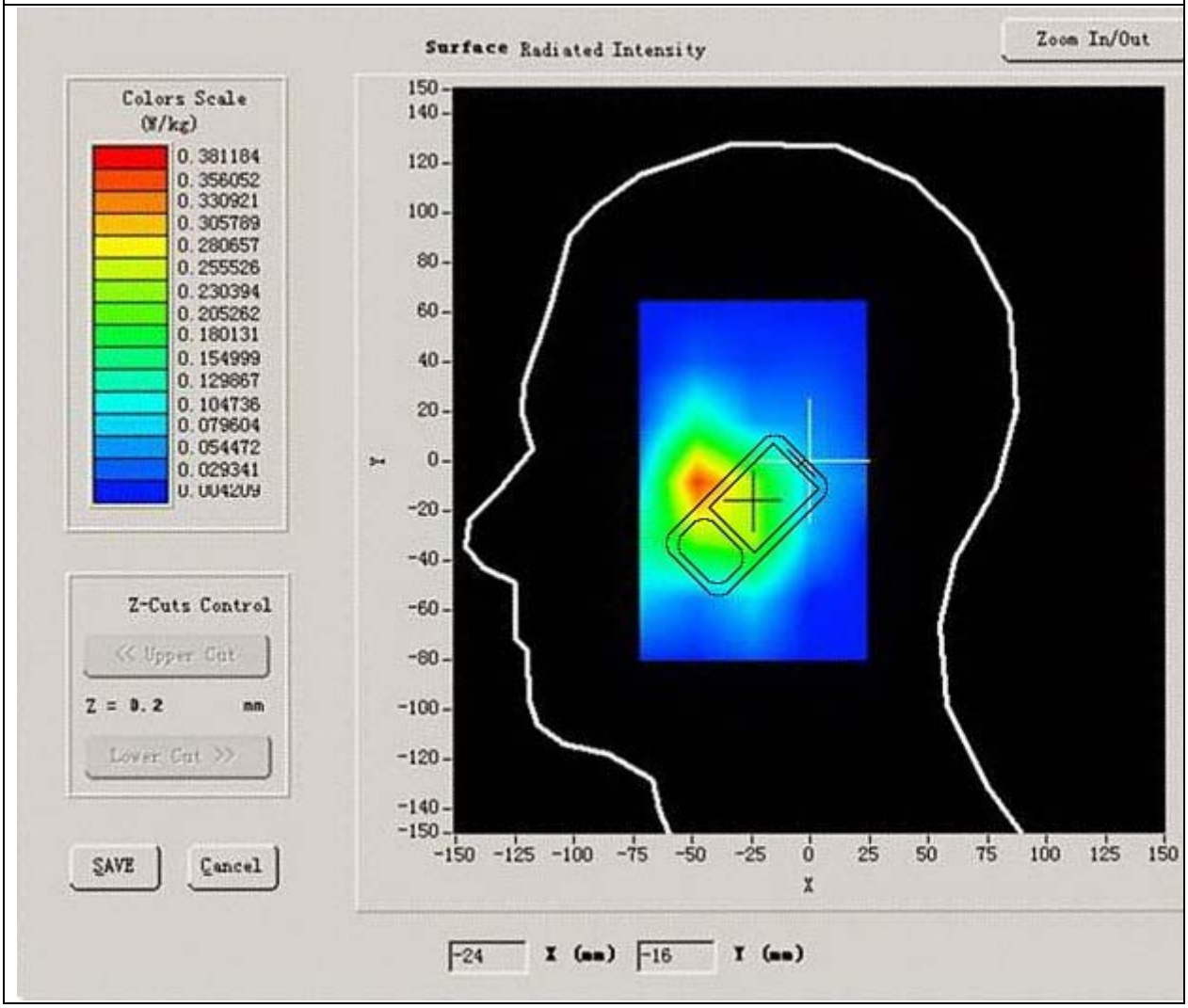
B. SAR Measurement Results

Higher Band SAR (Channel 251):

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

Conductivity (S/m)	0.894409
Variation (%)	-1.230000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

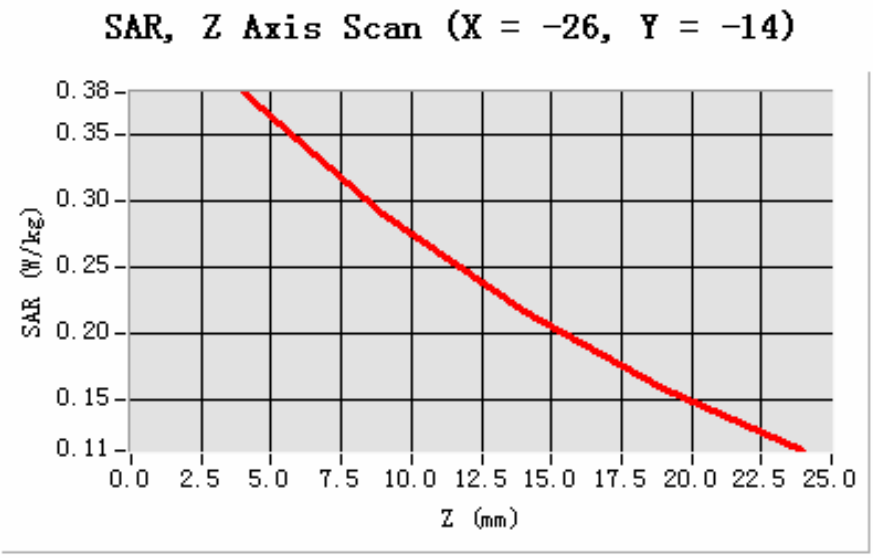


Maximum location: X=-26.00, Y=-14.00

SAR 10g (W/Kg)	0.252327
SAR 1g (W/Kg)	0.367808

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3813	0.2894	0.2165	0.1587



MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

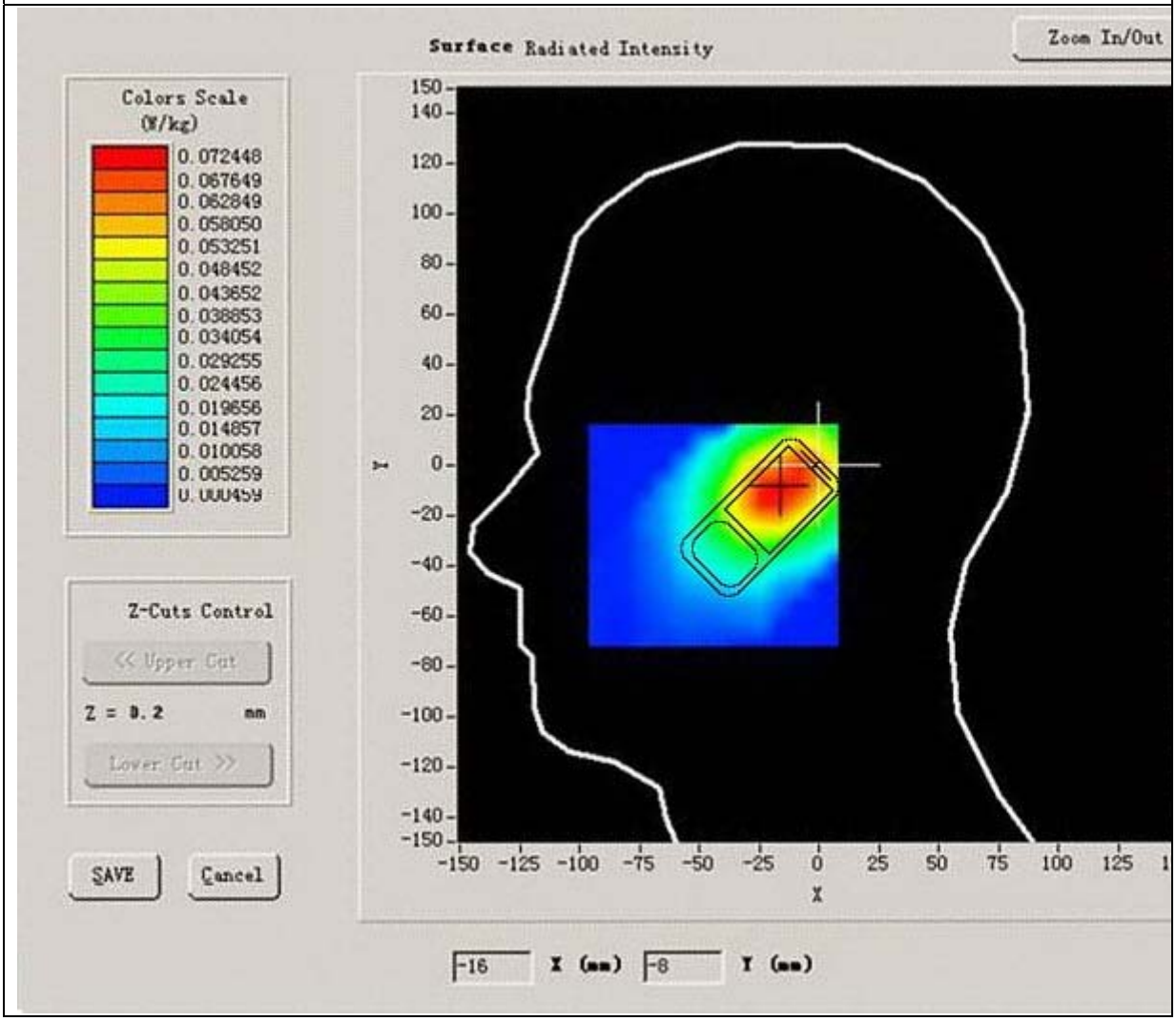
B. SAR Measurement Results

Lower Band SAR (Channel 128):

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

Conductivity (S/m)	0.866612
Variation (%)	3.410000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

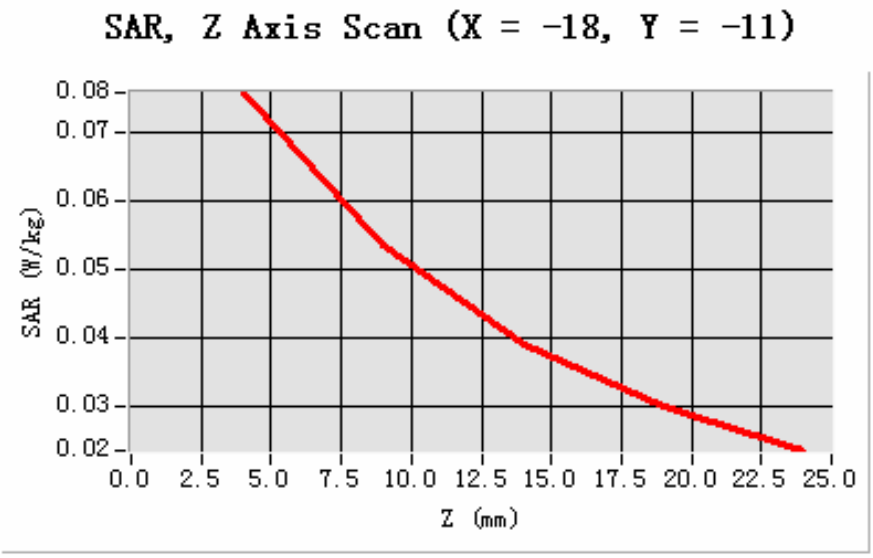


Maximum location: X=-18.00, Y=-11.00

SAR 10g (W/Kg)	0.049065
SAR 1g (W/Kg)	0.072799

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0759	0.0535	0.0391	0.0300



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

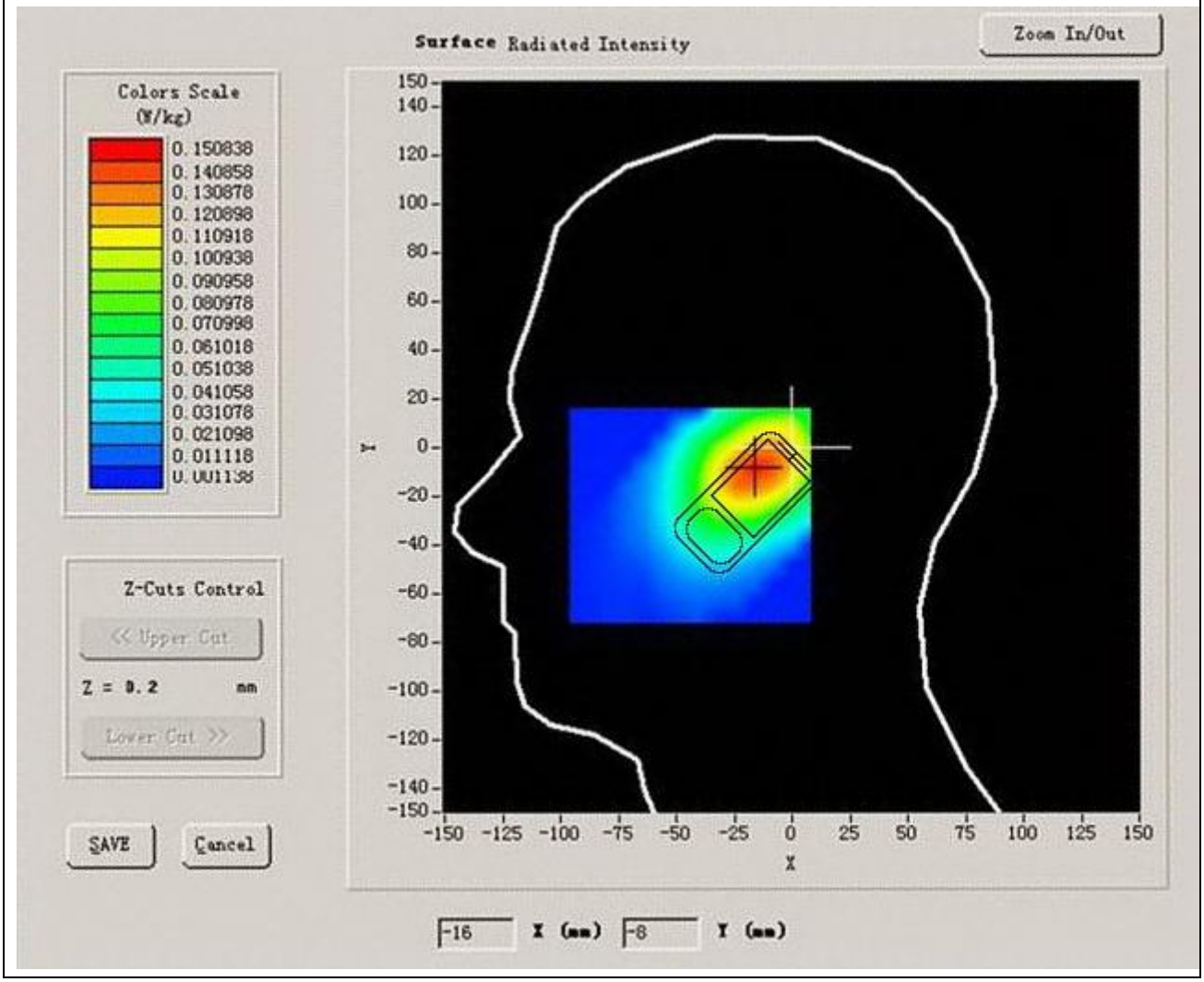
B. SAR Measurement Results

Middle Band SAR (Channel 190):

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

Conductivity (S/m)	0.888655
Variation (%)	-3.030000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

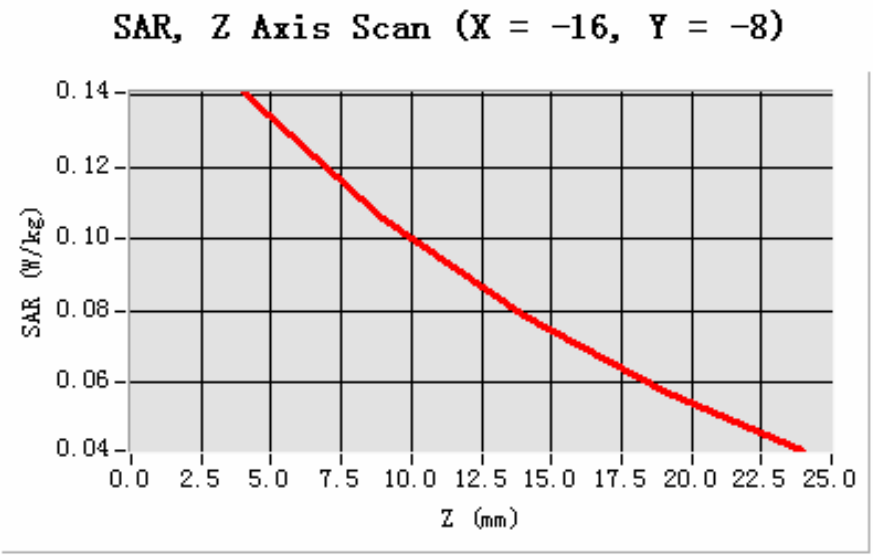


Maximum location: X=-16.00, Y=-8.00

SAR 10g (W/Kg)	0.093169
SAR 1g (W/Kg)	0.133987

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1406	0.1058	0.0788	0.0579



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

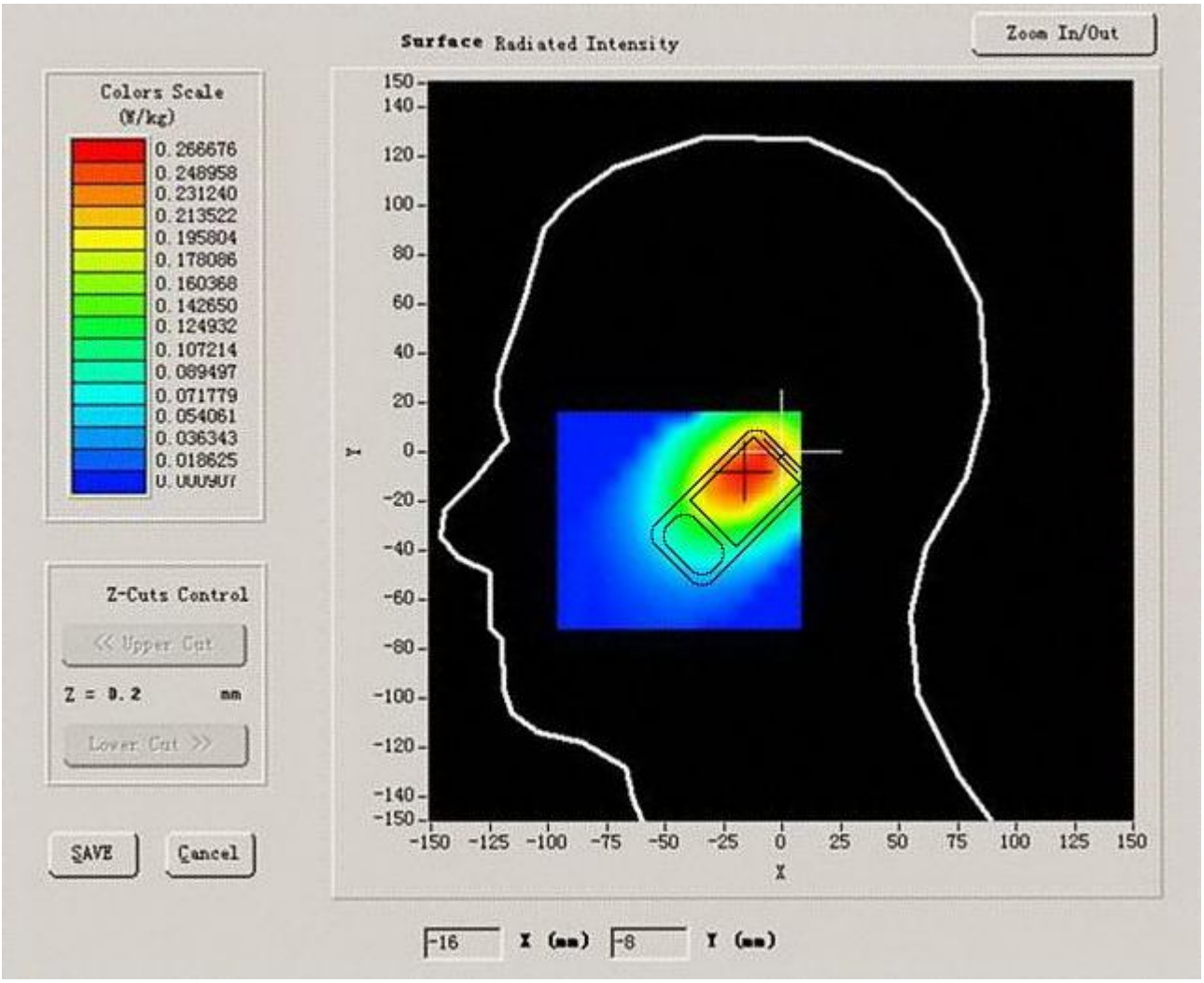
B. SAR Measurement Results

Higher Band SAR (Channel 251):

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

Conductivity (S/m)	0.894409
Variation (%)	1.160000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

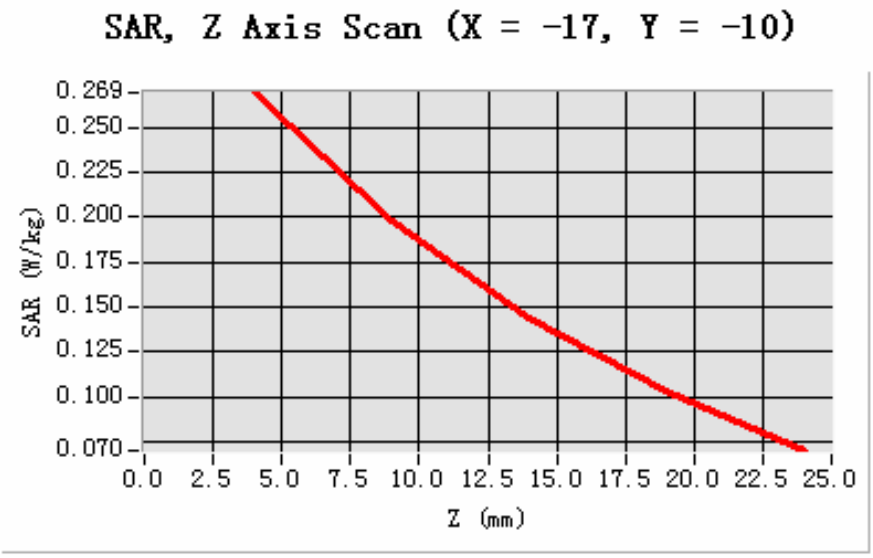


Maximum location: X=-17.00, Y=-10.00

SAR 10g (W/Kg)	0.174769
SAR 1g (W/Kg)	0.256457

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2694	0.1984	0.1441	0.1026



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

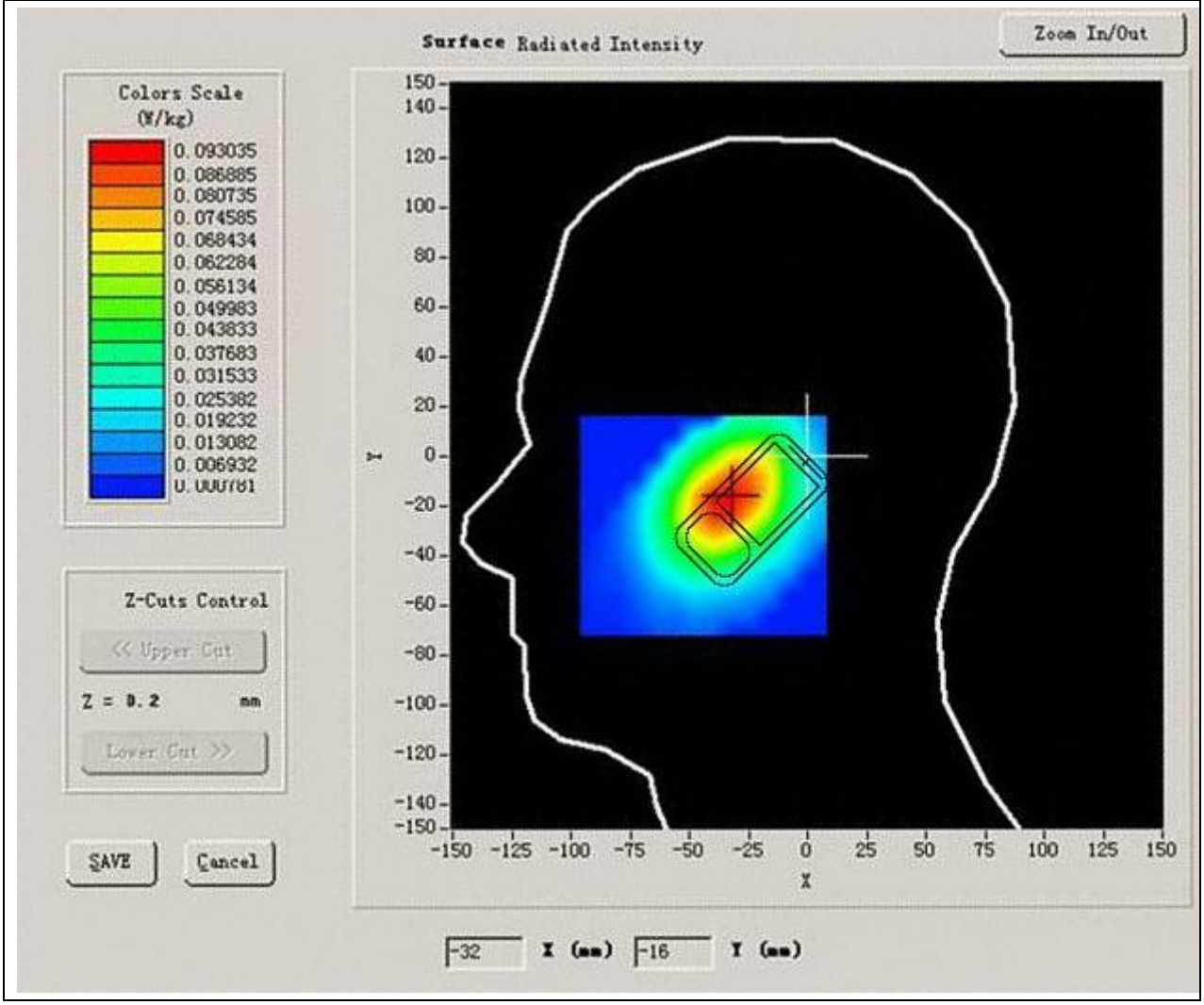
B. SAR Measurement Results

Lower Band SAR (Channel 128):

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

Conductivity (S/m)	0.866612
Variation (%)	0.950000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

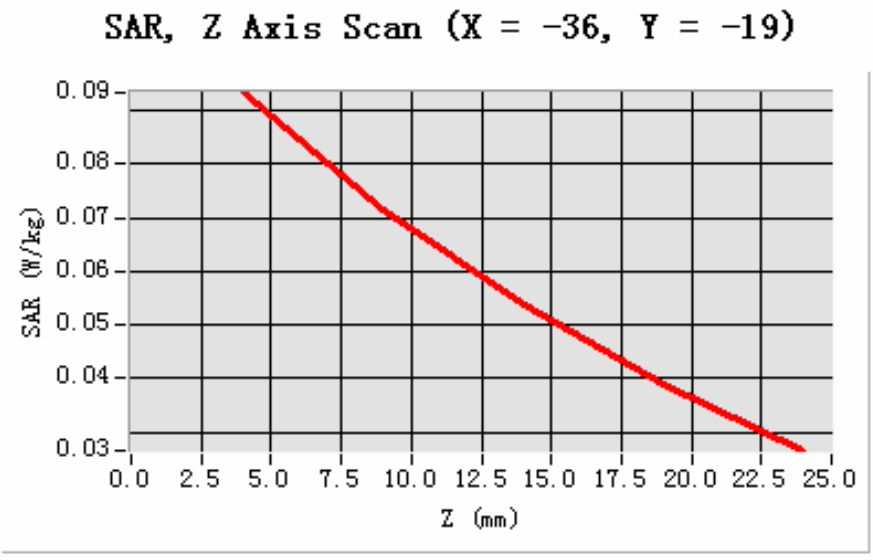


Maximum location: X=-36.00, Y=-19.00

SAR 10g (W/Kg)	0.060656
SAR 1g (W/Kg)	0.087836

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0933	0.0716	0.0536	0.0387



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

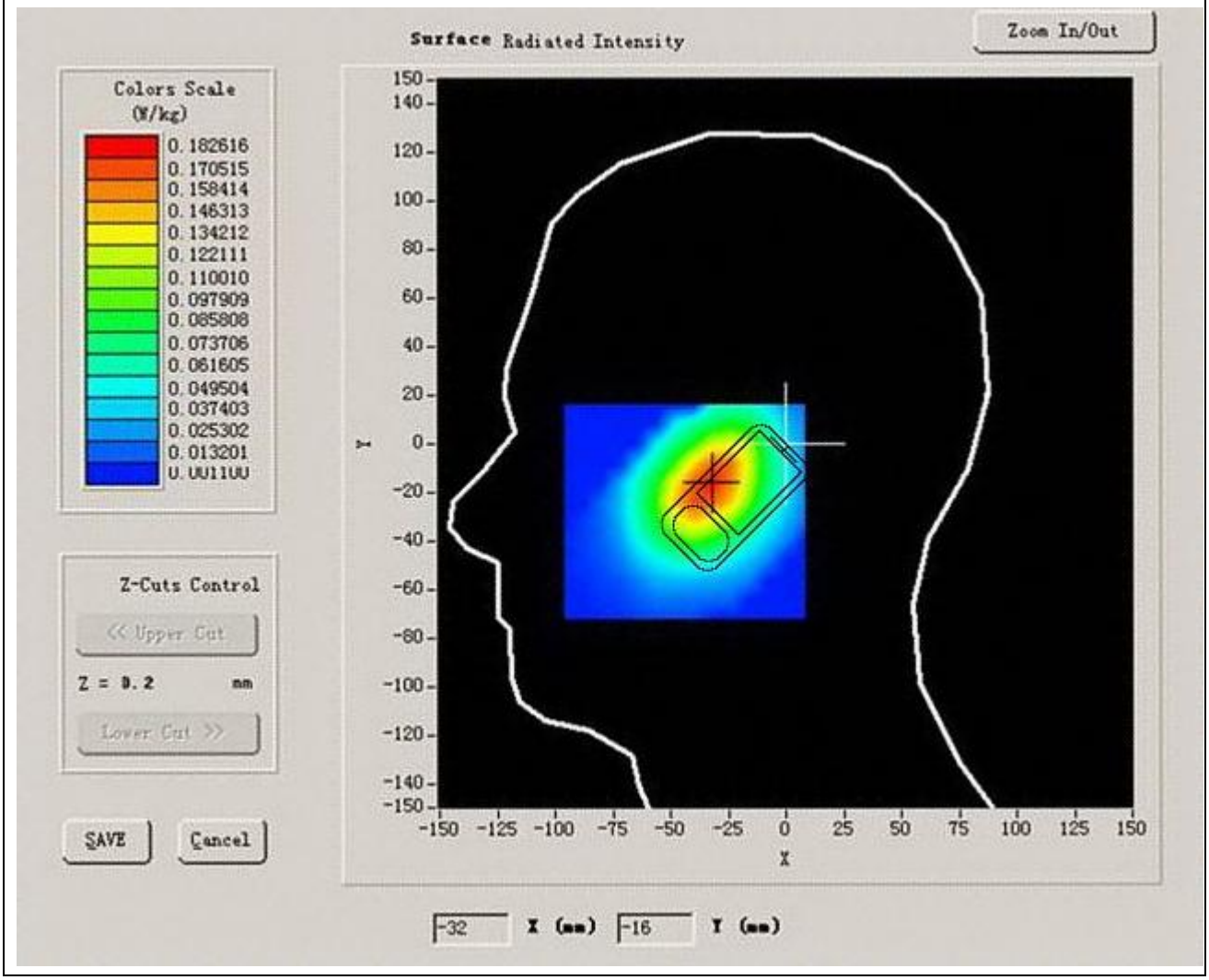
B. SAR Measurement Results

Middle Band SAR (Channel 190):

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

Conductivity (S/m)	0.888655
Variation (%)	-1.510000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

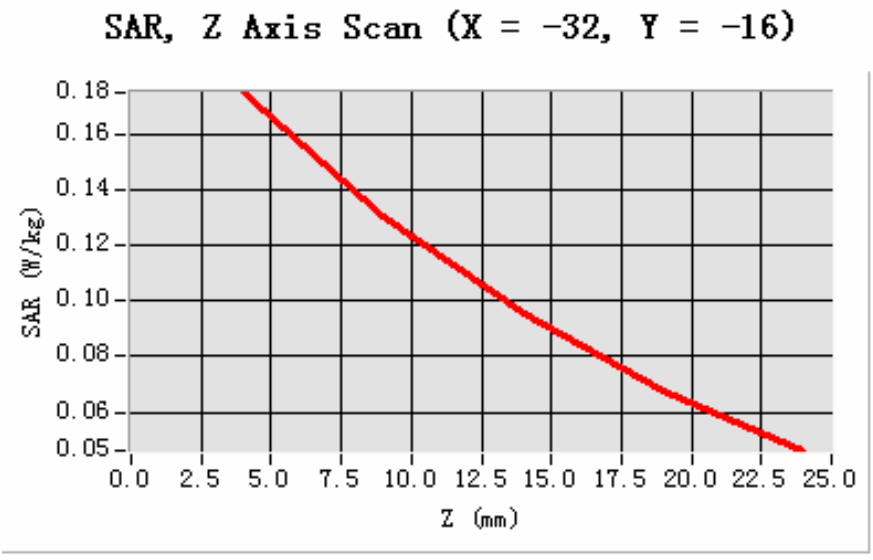


Maximum location: X=-32.00, Y=-16.00

SAR 10g (W/Kg)	0.113457
SAR 1g (W/Kg)	0.166610

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1754	0.1306	0.0954	0.0680



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

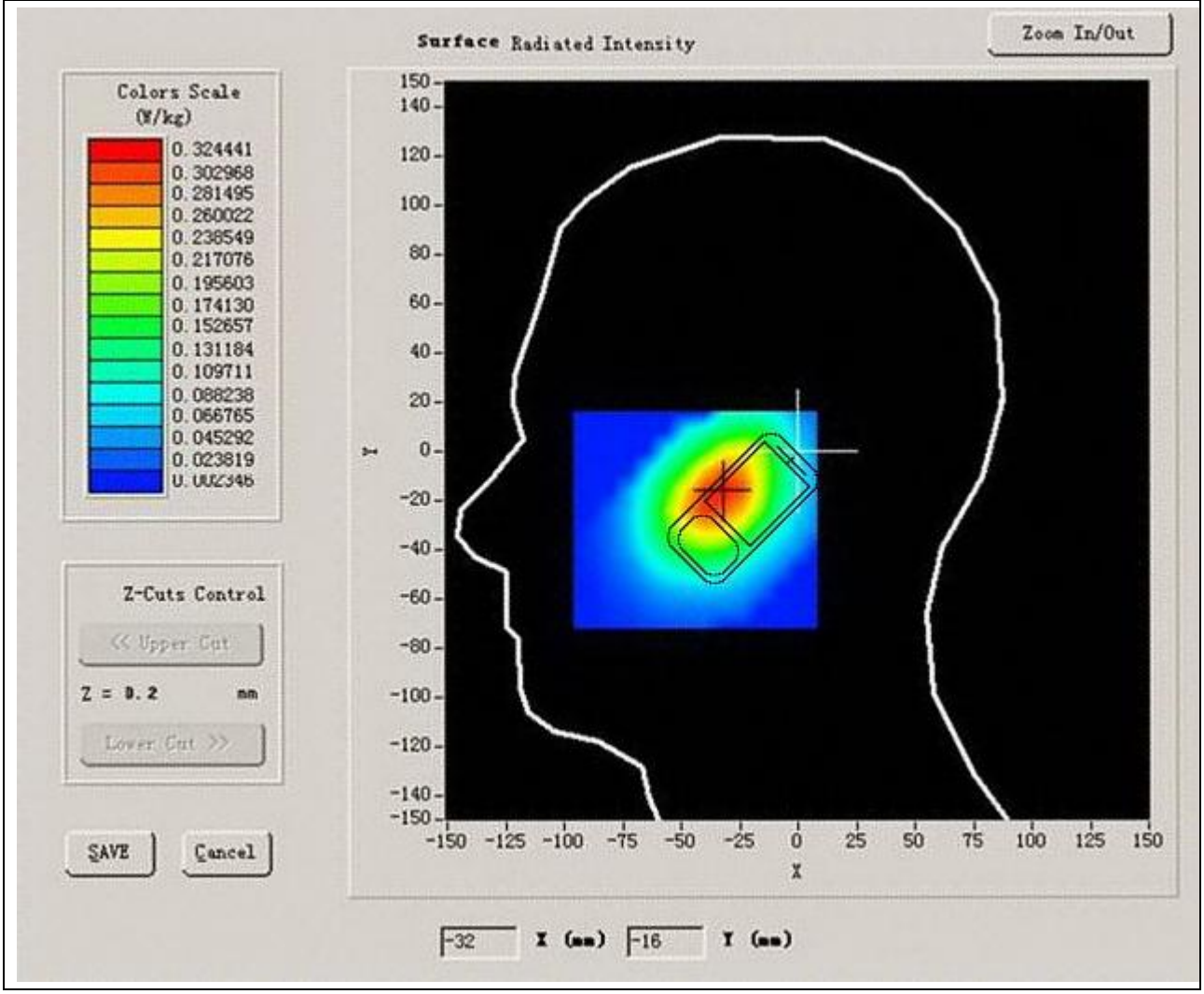
B. SAR Measurement Results

Higher Band SAR (Channel 251):

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

Conductivity (S/m)	0.894409
Variation (%)	-0.630000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

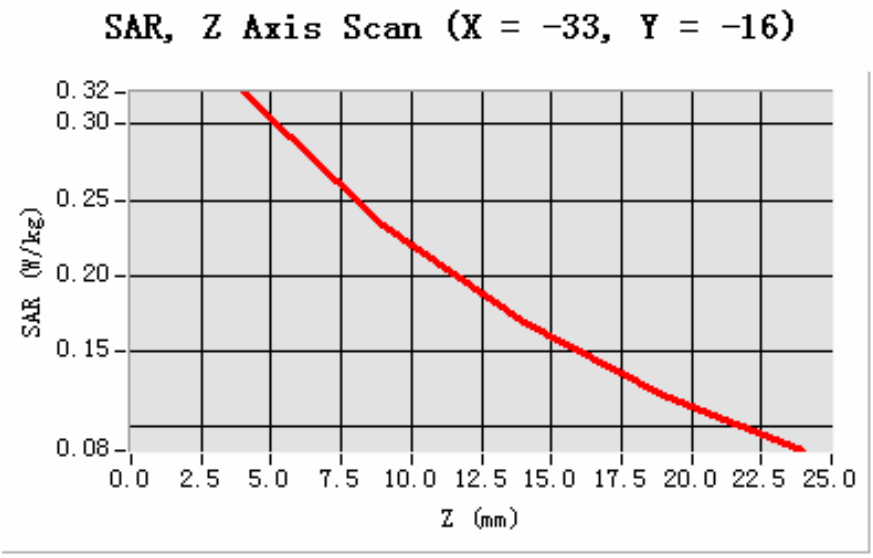


Maximum location: X=-33.00, Y=-16.00

SAR 10g (W/Kg)	0.204383
SAR 1g (W/Kg)	0.305260

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3210	0.2335	0.1690	0.1215



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

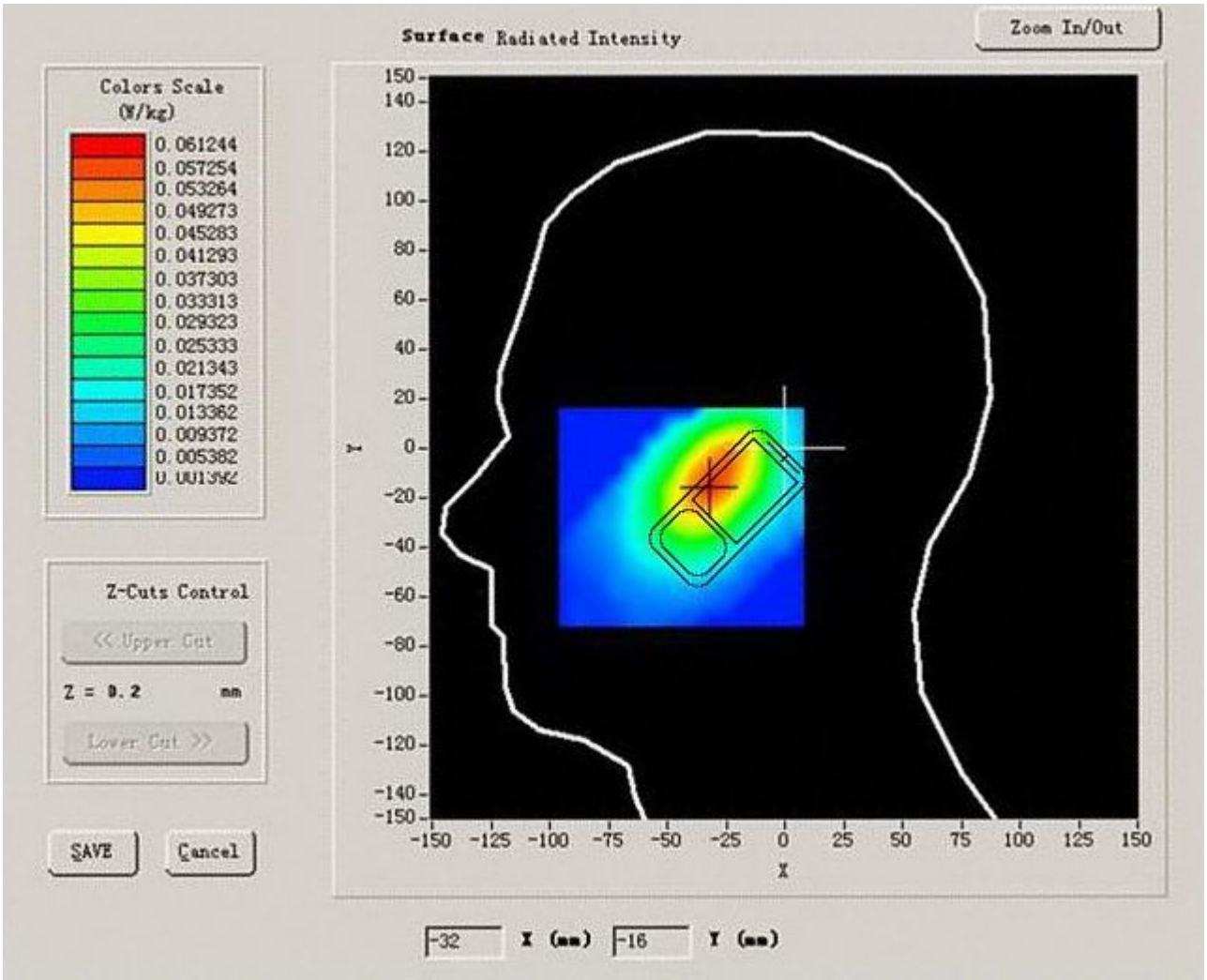
B. SAR Measurement Results

Lower Band SAR (Channel 128):

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

Conductivity (S/m)	0.866612
Variation (%)	0.590000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

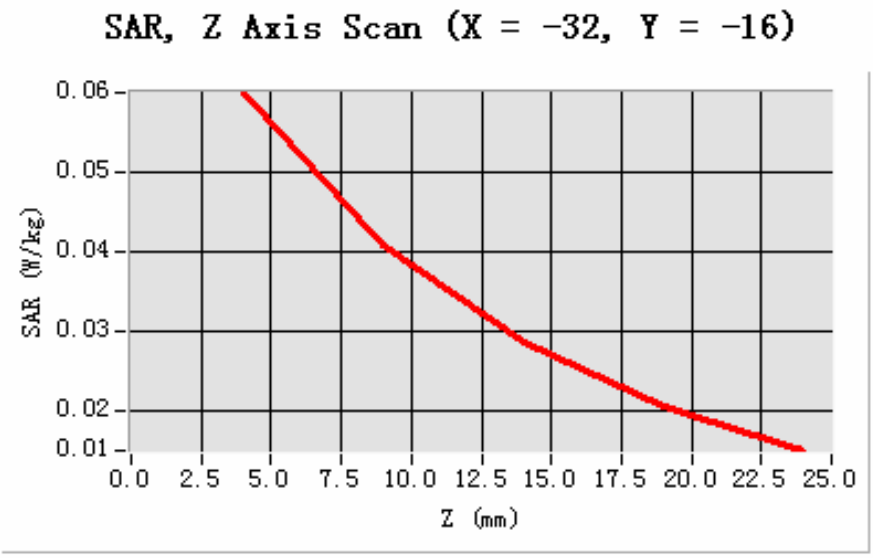


Maximum location: X=-32.00, Y=-16.00

SAR 10g (W/Kg)	0.037255
SAR 1g (W/Kg)	0.057193

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0601	0.0409	0.0285	0.0206



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

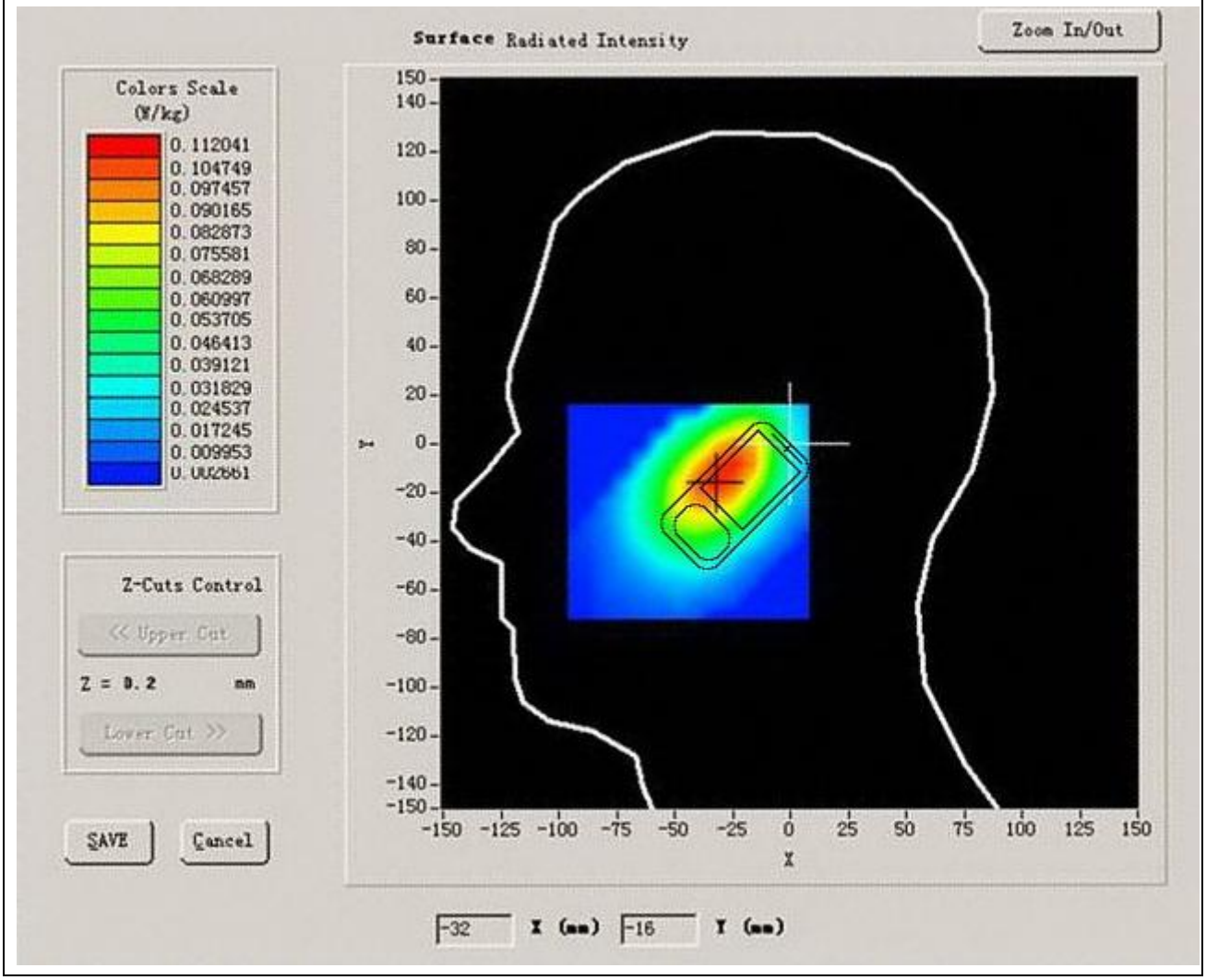
B. SAR Measurement Results

Middle Band SAR (Channel 190):

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

Conductivity (S/m)	0.888655
Variation (%)	-1.750000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

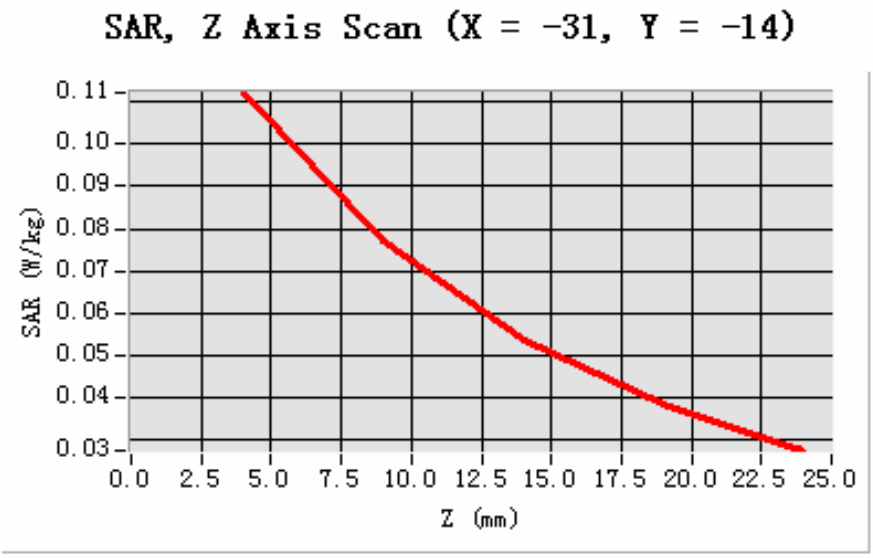


Maximum location: X=-31.00, Y=-14.00

SAR 10g (W/Kg)	0.069637
SAR 1g (W/Kg)	0.106699

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1122	0.0771	0.0539	0.0386



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

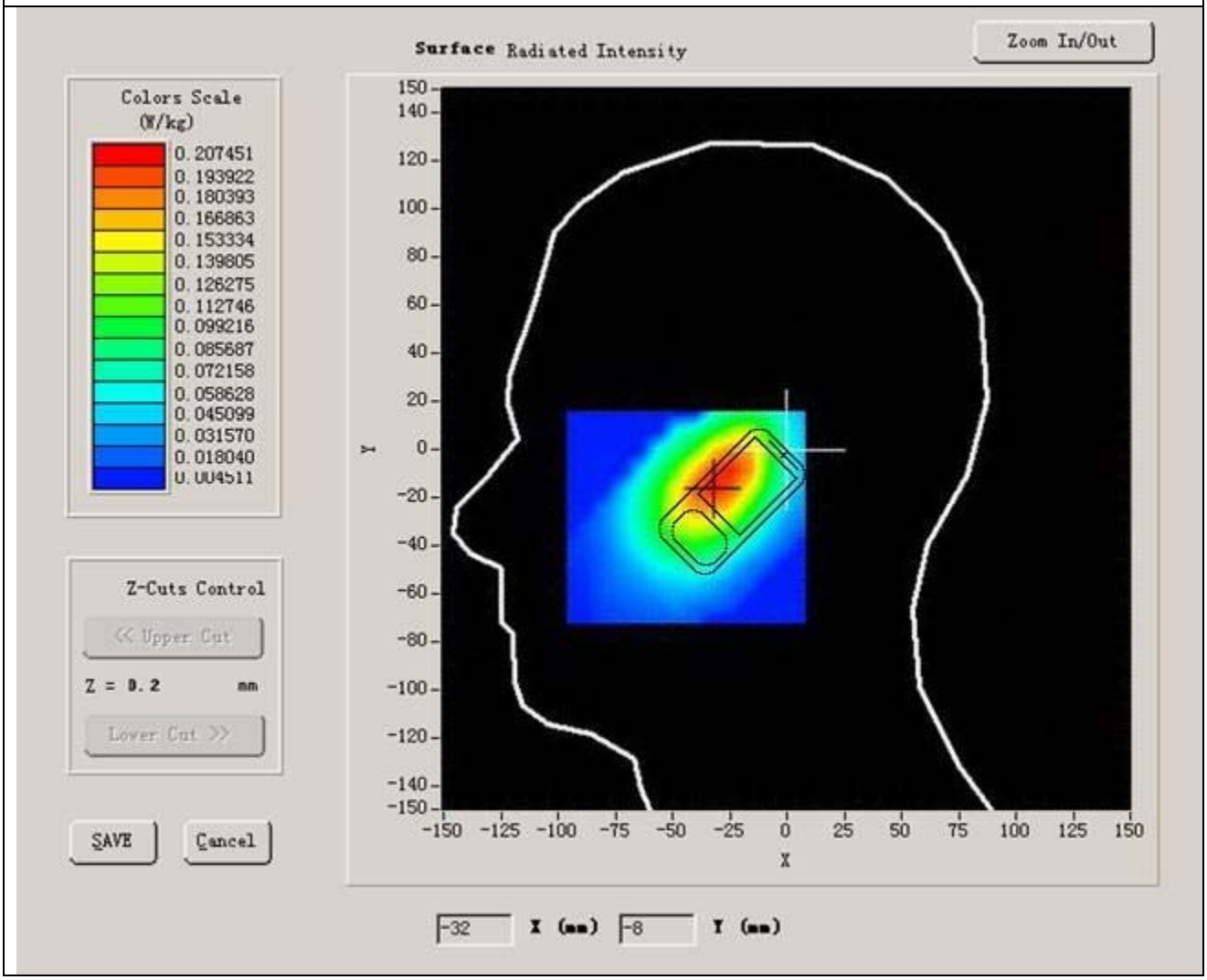
B. SAR Measurement Results

Higher Band SAR (Channel 251):

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

Conductivity (S/m)	0.894409
Variation (%)	-0.300000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

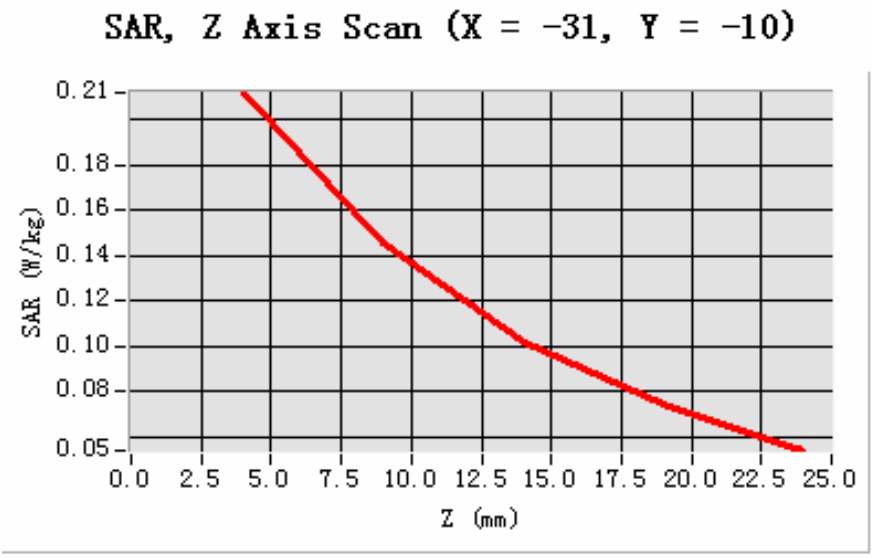


Maximum location: X=-31.00, Y=-10.00

SAR 10g (W/Kg)	0.135041
SAR 1g (W/Kg)	0.204644

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2119	0.1454	0.1020	0.0742



MEASUREMENT 13(with GPRS)

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

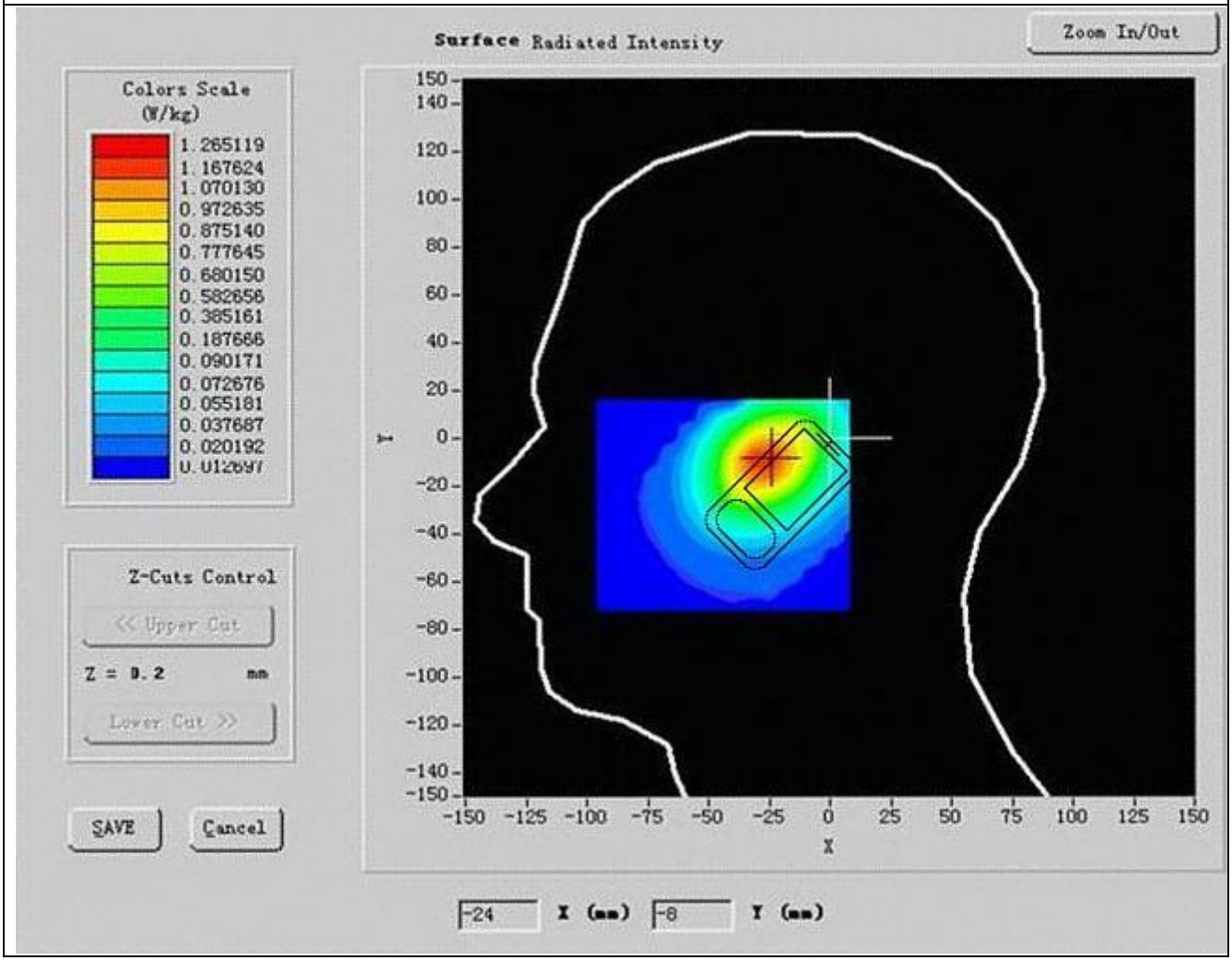
B. SAR Measurement Results

Higher Band SAR (Channel 251):

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

Conductivity (S/m)	0.894409
Variation (%)	-4.240000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

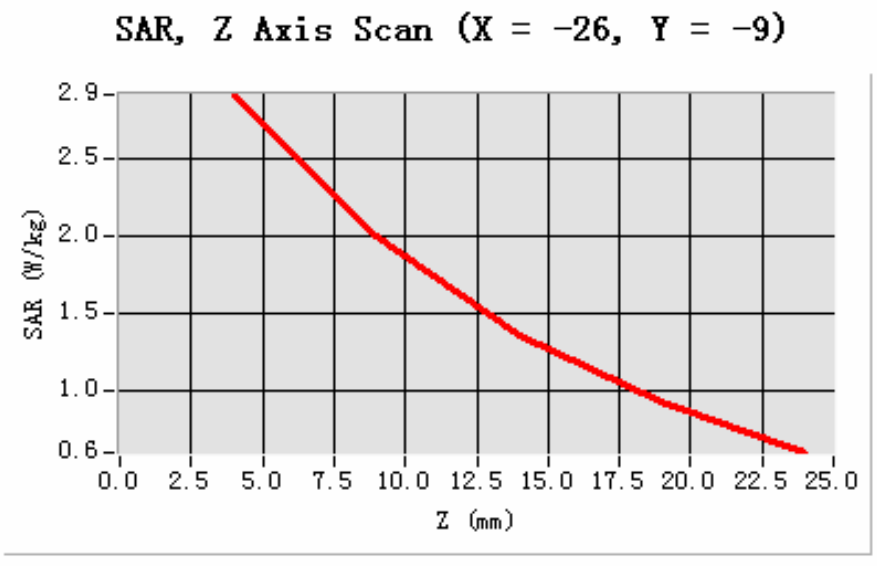


Maximum location: X=-26.00, Y=-9.00

SAR 10g (W/Kg)	0.625349
SAR 1g (W/Kg)	1.184308

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	2.9209	2.0013	1.3606	0.9173



MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	Cheek
Band	GSM850
Channels	Low
Signal	TDMA

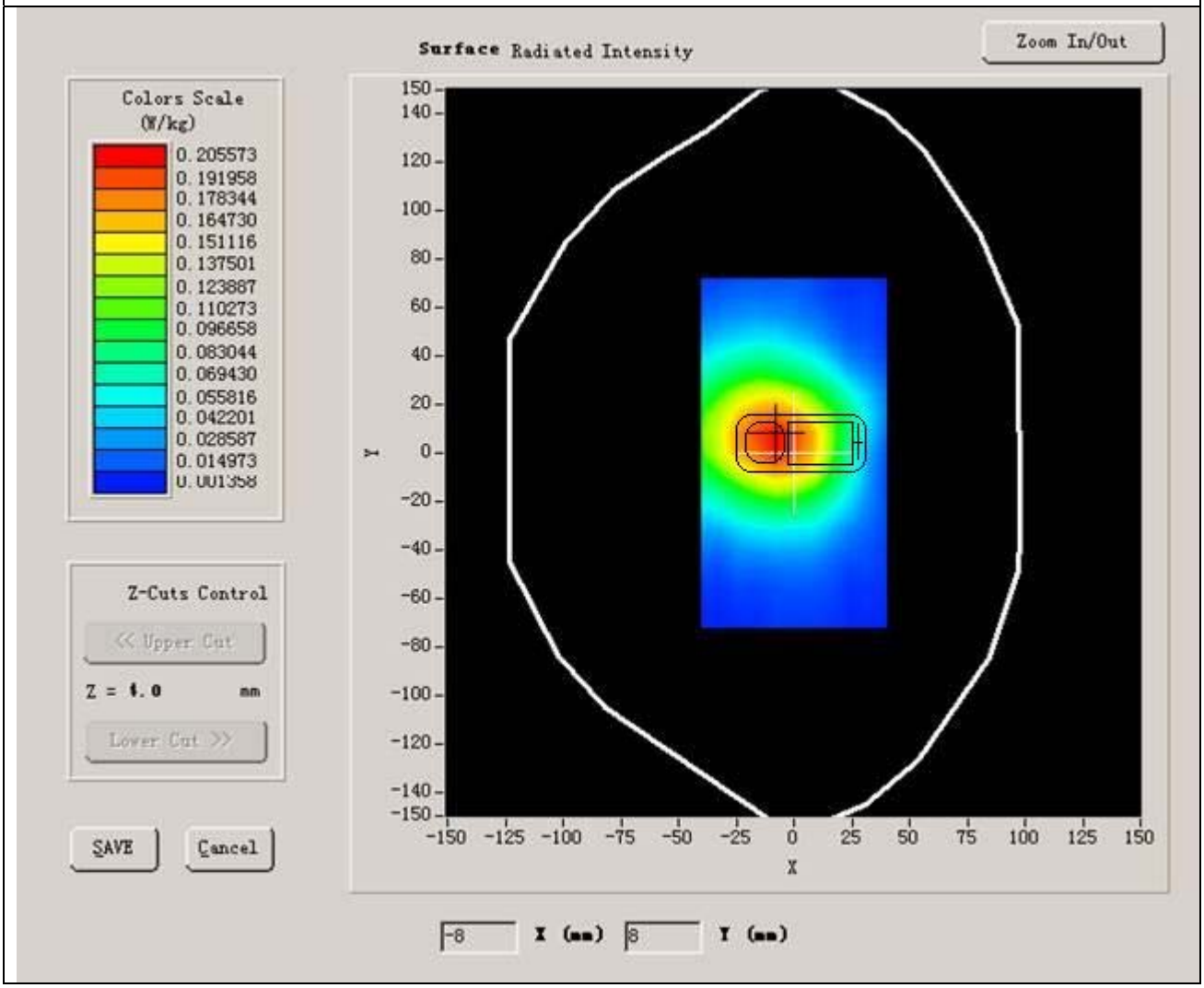
B. SAR Measurement Results

Middle Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	55.709999
Relative permittivity (imaginary part)	21.709999

Conductivity (S/m)	1.009033
Variation (%)	-2.860000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

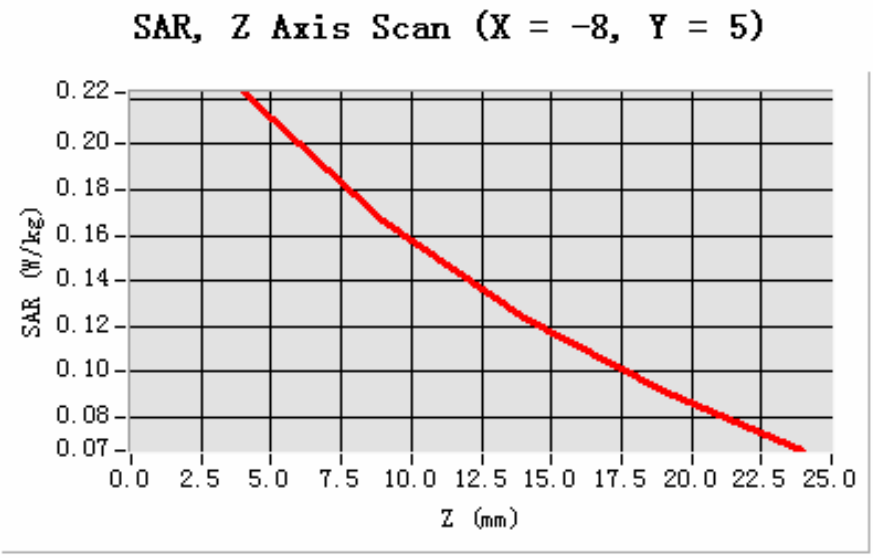


Maximum location: X=-8.00, Y=5.00

SAR 10g (W/Kg)	0.151508
SAR 1g (W/Kg)	0.214889

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2228	0.1667	0.1240	0.0914



MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	Cheek
Band	GSM850
Channels	Middle
Signal	TDMA

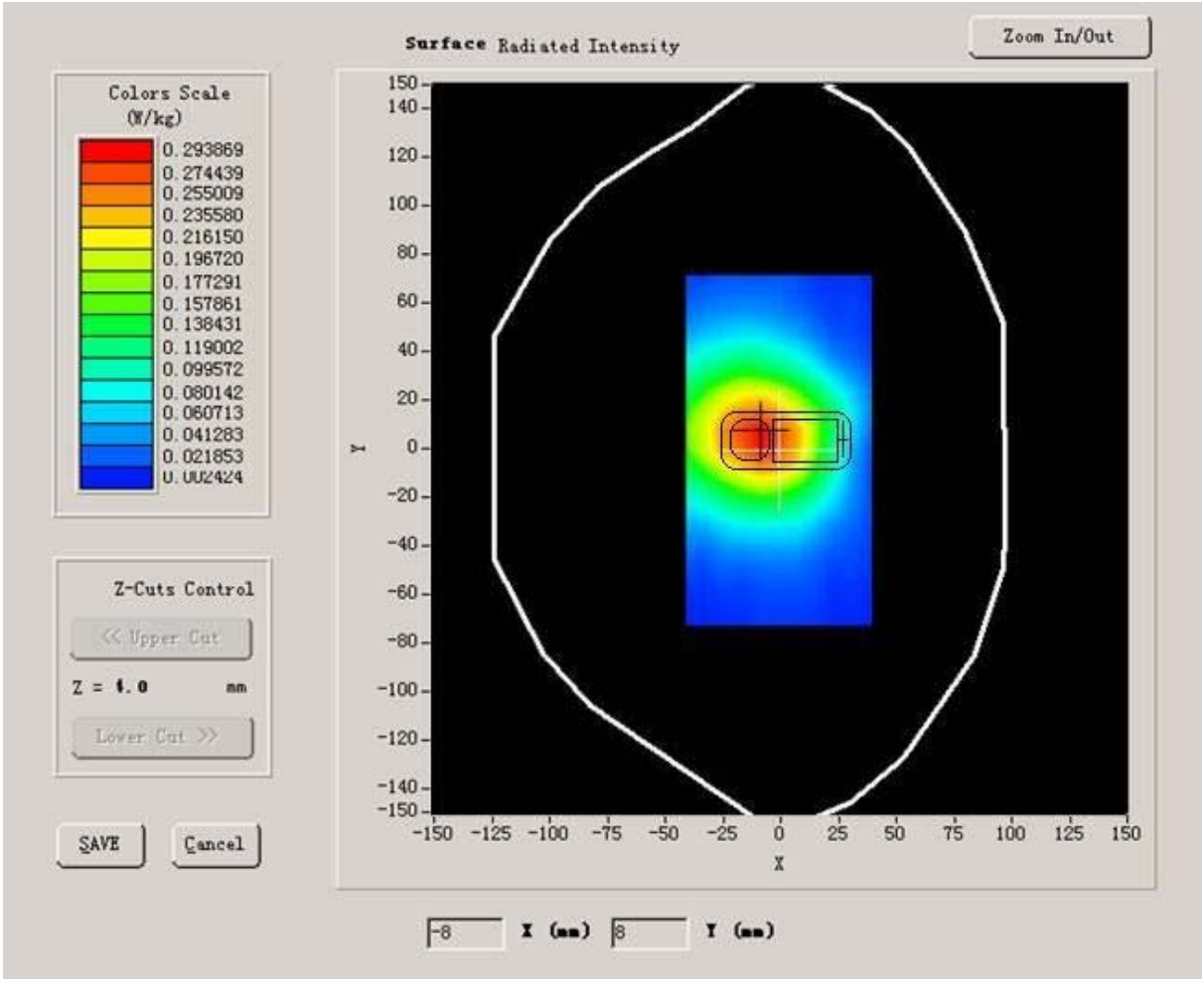
B. SAR Measurement Results

Middle Band SAR (Channel 190):

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

Conductivity (S/m)	1.009033
Variation (%)	0.240000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

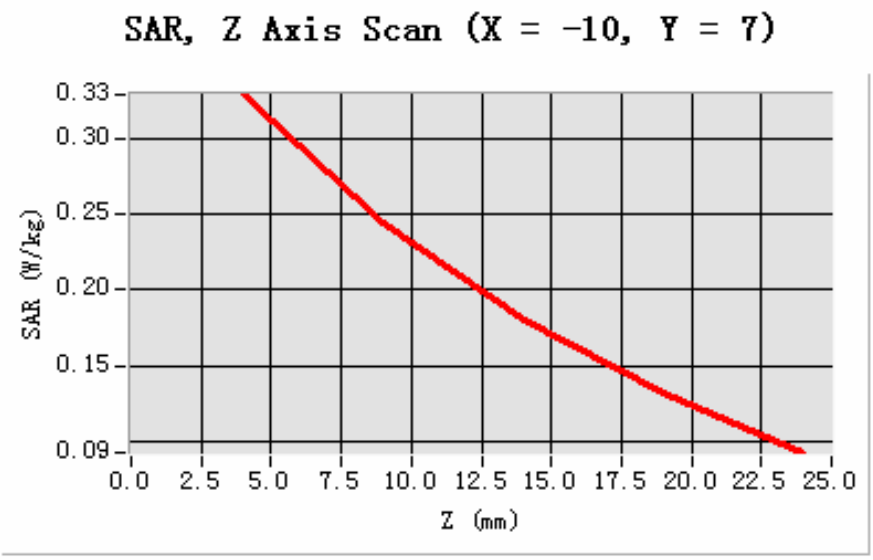


Maximum location: X=-10.00, Y=7.00

SAR 10g (W/Kg)	0.222034
SAR 1g (W/Kg)	0.317413

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3288	0.2446	0.1804	0.1314



MEASUREMENT 16

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	Cheek
Band	GSM850
Channels	High
Signal	TDMA

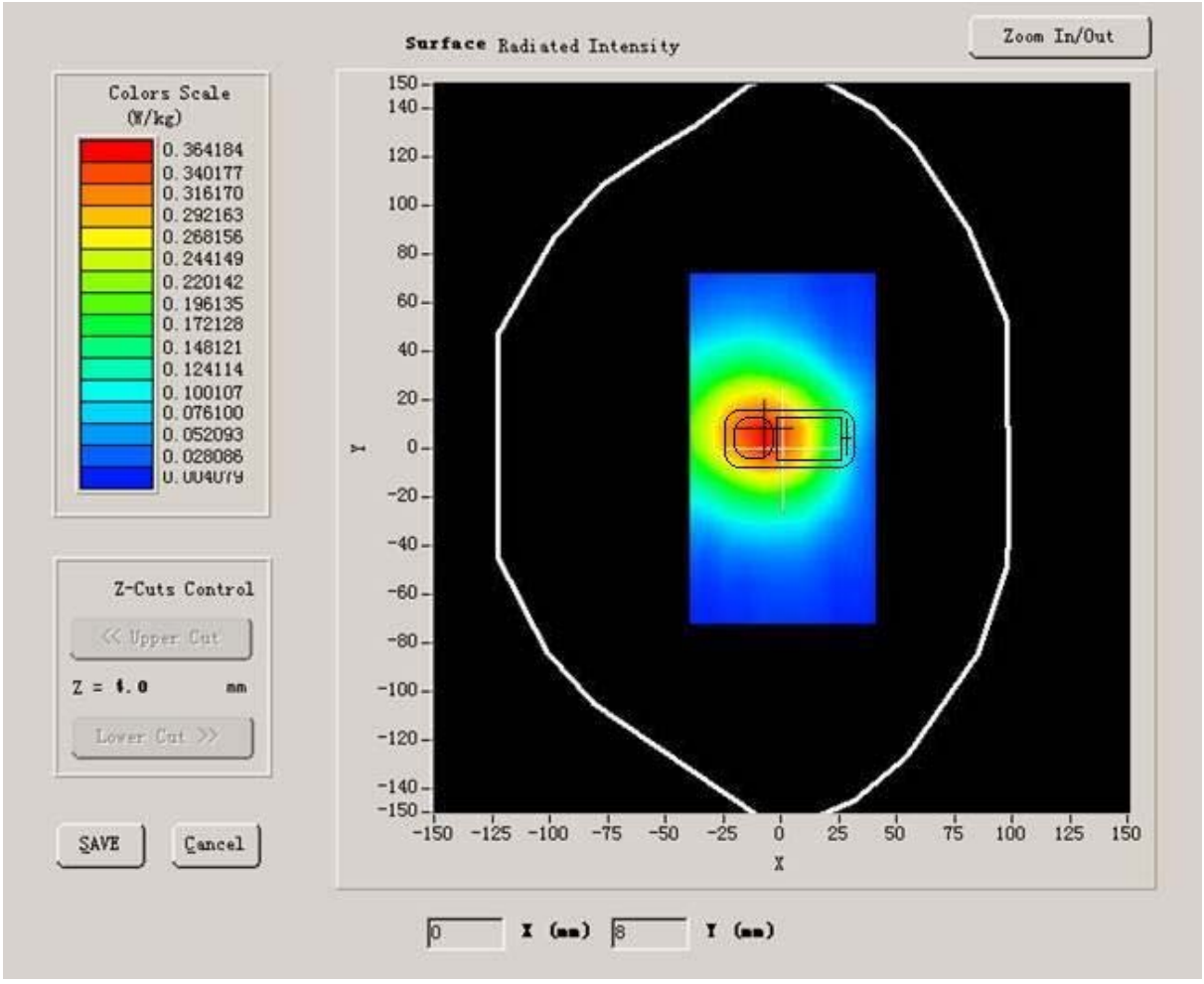
B. SAR Measurement Results

Higher Band SAR (Channel 251):

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

Conductivity (S/m)	1.005962
Variation (%)	-0.320000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

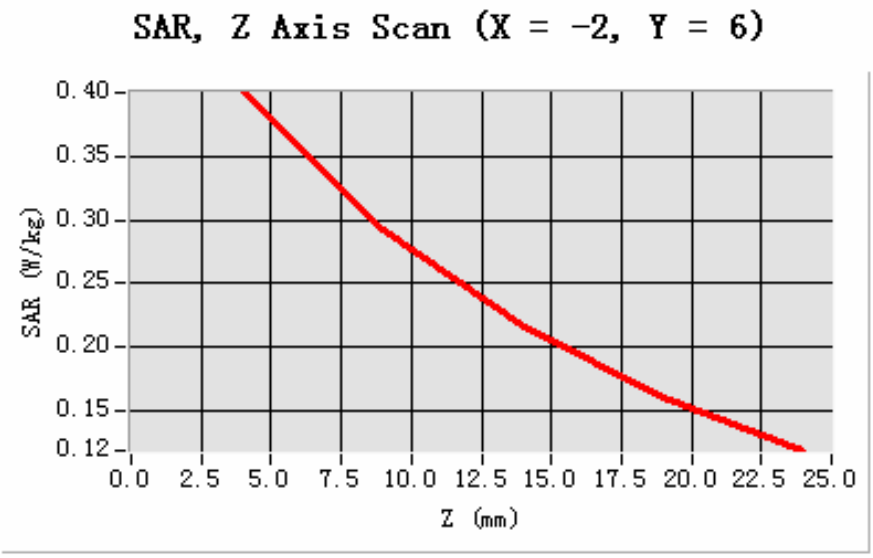


Maximum location: X=-2.00, Y=6.00

SAR 10g (W/Kg)	0.273738
SAR 1g (W/Kg)	0.391866

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4005	0.2925	0.2154	0.1604



MEASUREMENT 17(back)

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	Cheek
Band	GSM850
Channels	High
Signal	TDMA

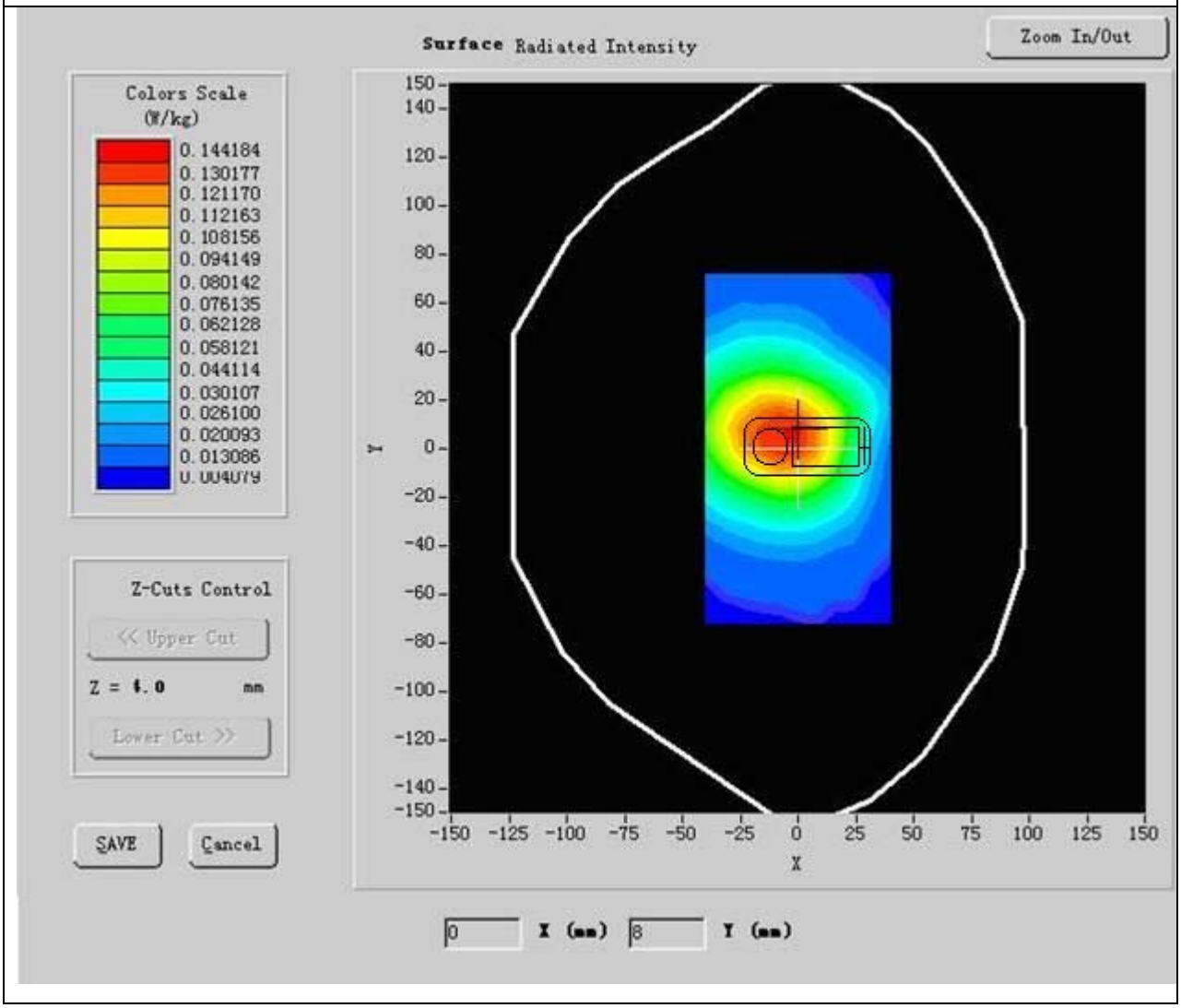
B. SAR Measurement Results

Higher Band SAR (Channel 251):

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

Conductivity (S/m)	1.005962
Variation (%)	-0.320000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

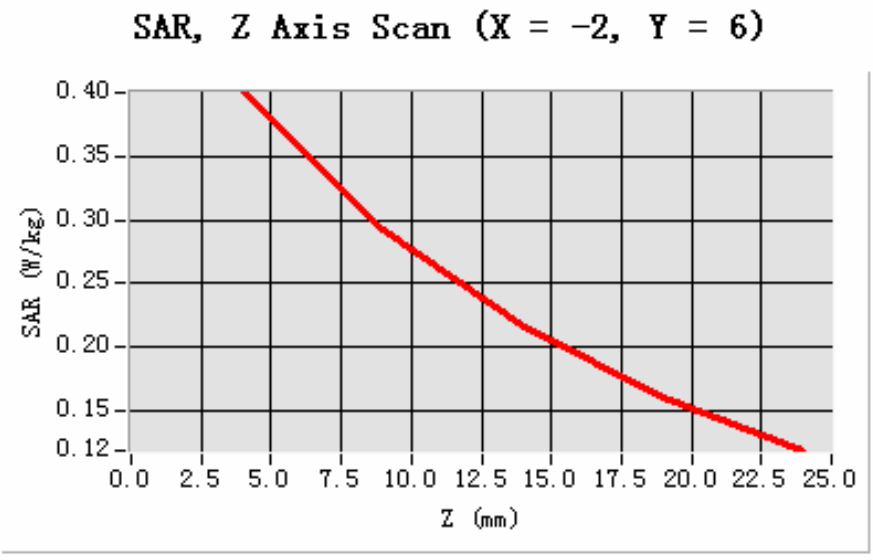


Maximum location: X=-2.00, Y=6.00

SAR 10g (W/Kg)	0.085447
SAR 1g (W/Kg)	0.145566

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4005	0.2925	0.2154	0.1604



MEASUREMENT 18(with Headphone)

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	Cheek
Band	GSM850
Channels	High
Signal	TDMA

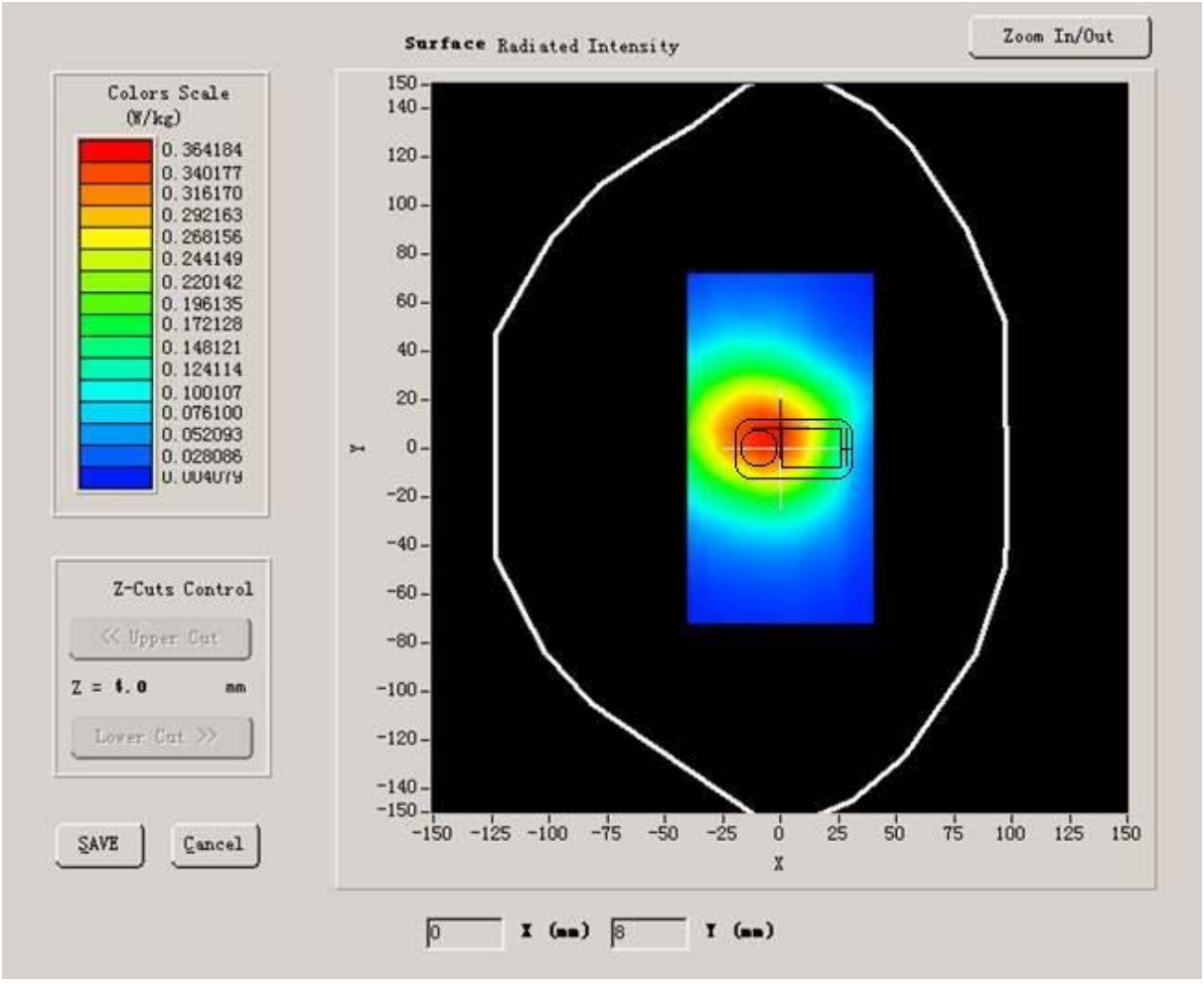
B. SAR Measurement Results

Higher Band SAR (Channel 251):

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

Conductivity (S/m)	1.005962
Variation (%)	-0.320000
Ambient Temperature:	23.4°C
Liquid Temperature:	23.1°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

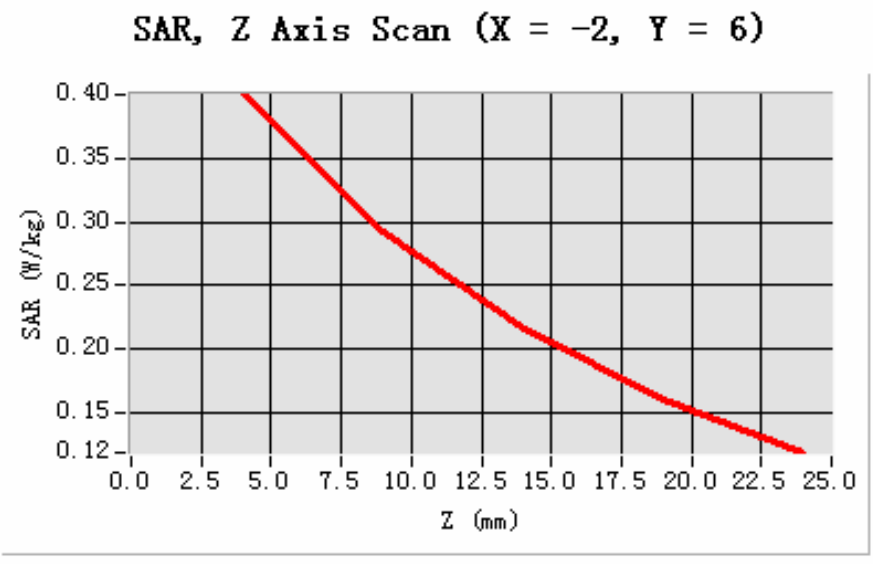


Maximum location: X=-2.00, Y=6.00

SAR 10g (W/Kg)	0.186653
SAR 1g (W/Kg)	0.355115

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4005	0.2925	0.2154	0.1604



MEASUREMENT 19

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

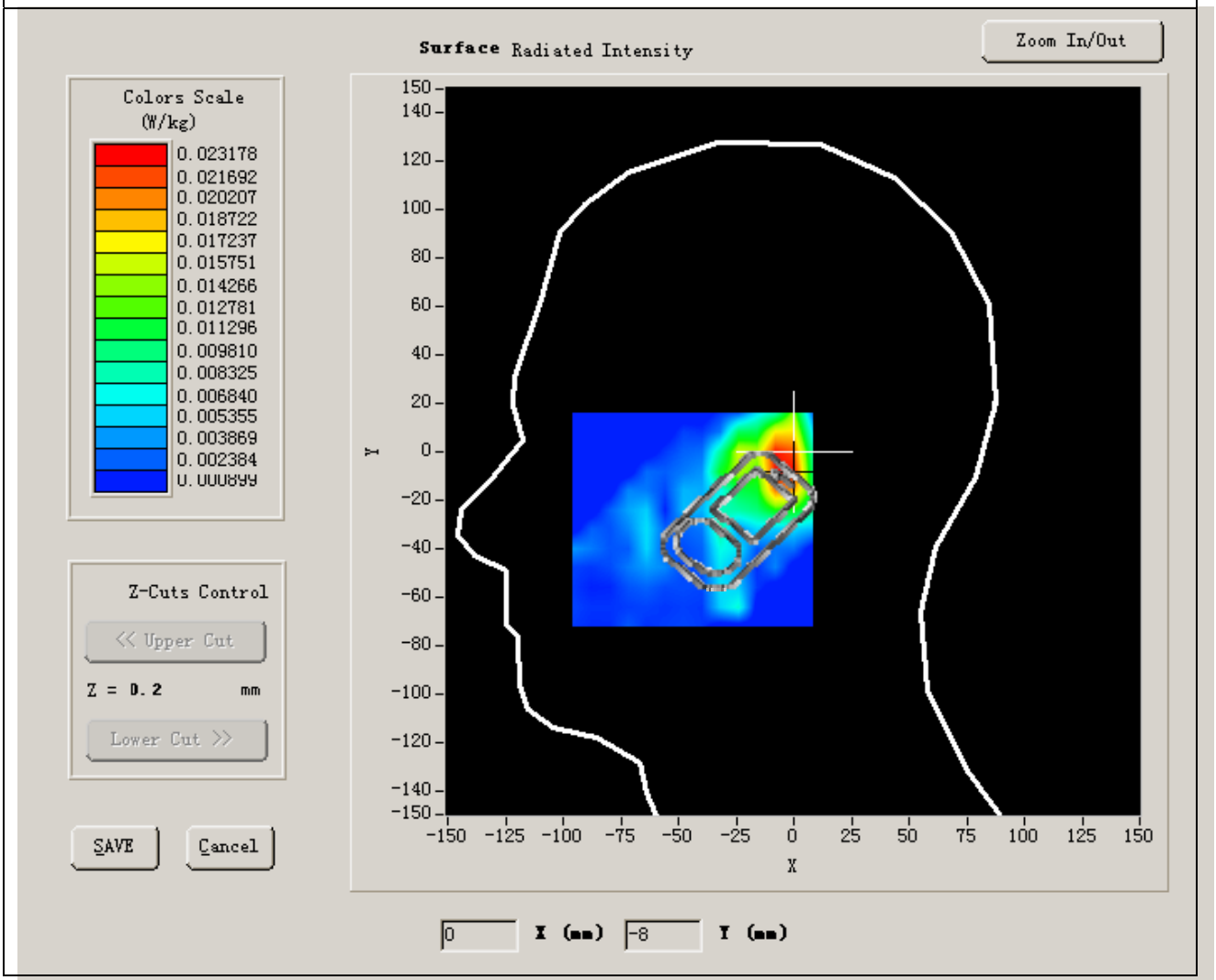
B. SAR Measurement Results

Lower Band SAR (Channel 512):

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

Conductivity (S/m)	1.335397
Variation (%)	-3.410000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

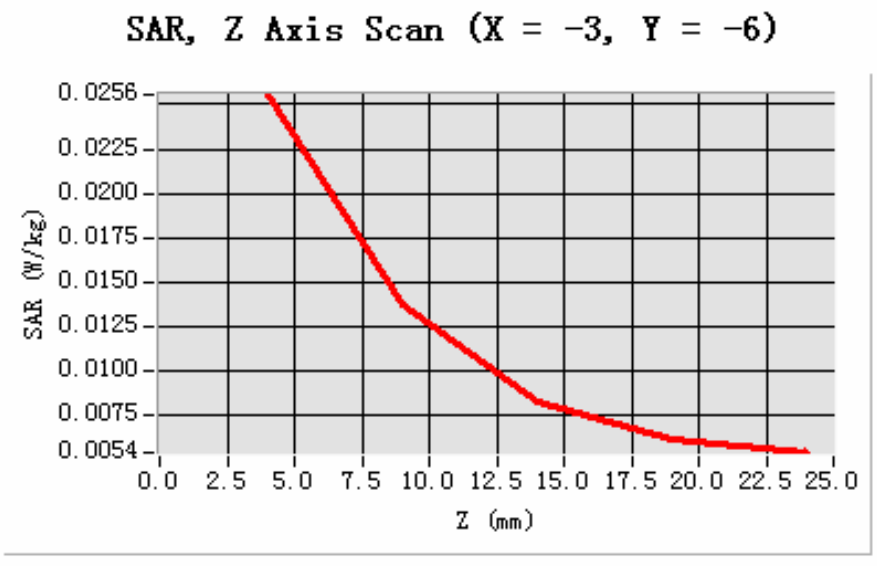


Maximum location: X=-3.00, Y=-6.00

SAR 10g (W/Kg)	0.014713
SAR 1g (W/Kg)	0.024903

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0256	0.0137	0.0082	0.0062



MEASUREMENT 20

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

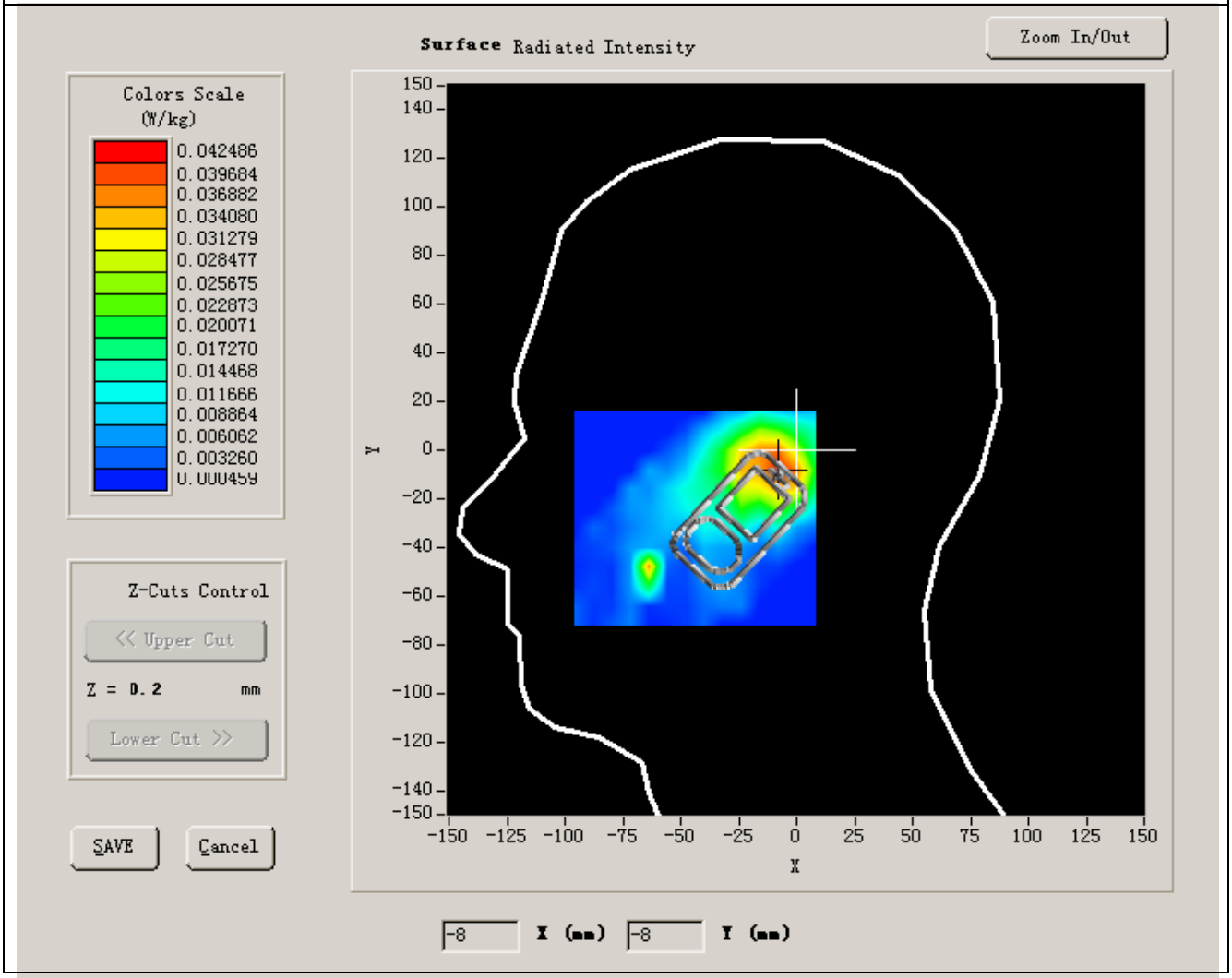
B. SAR Measurement Results

Middle Band SAR (Channel 661):

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

Conductivity (S/m)	1.436111
Variation (%)	-3.670000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

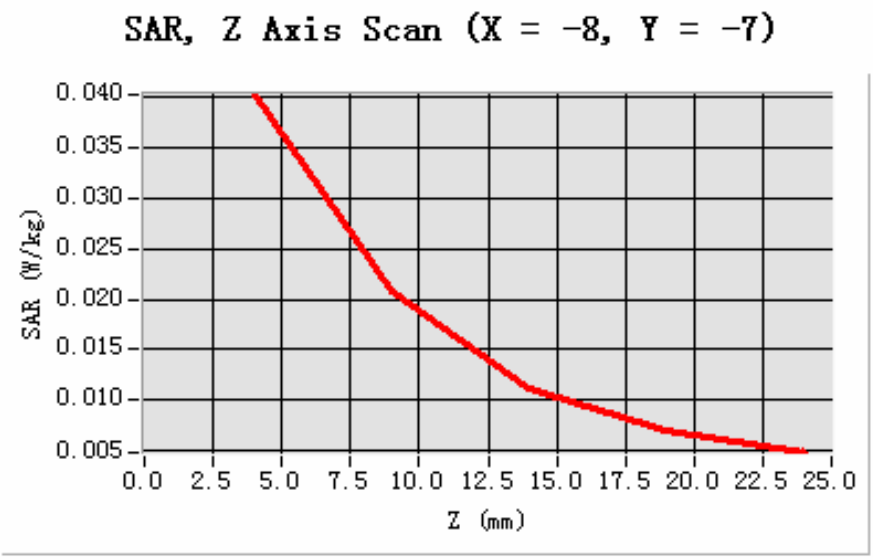


Maximum location: X=-8.00, Y=-7.00

SAR 10g (W/Kg)	0.021101
SAR 1g (W/Kg)	0.038697

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0403	0.0208	0.0112	0.0070



MEASUREMENT 21

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

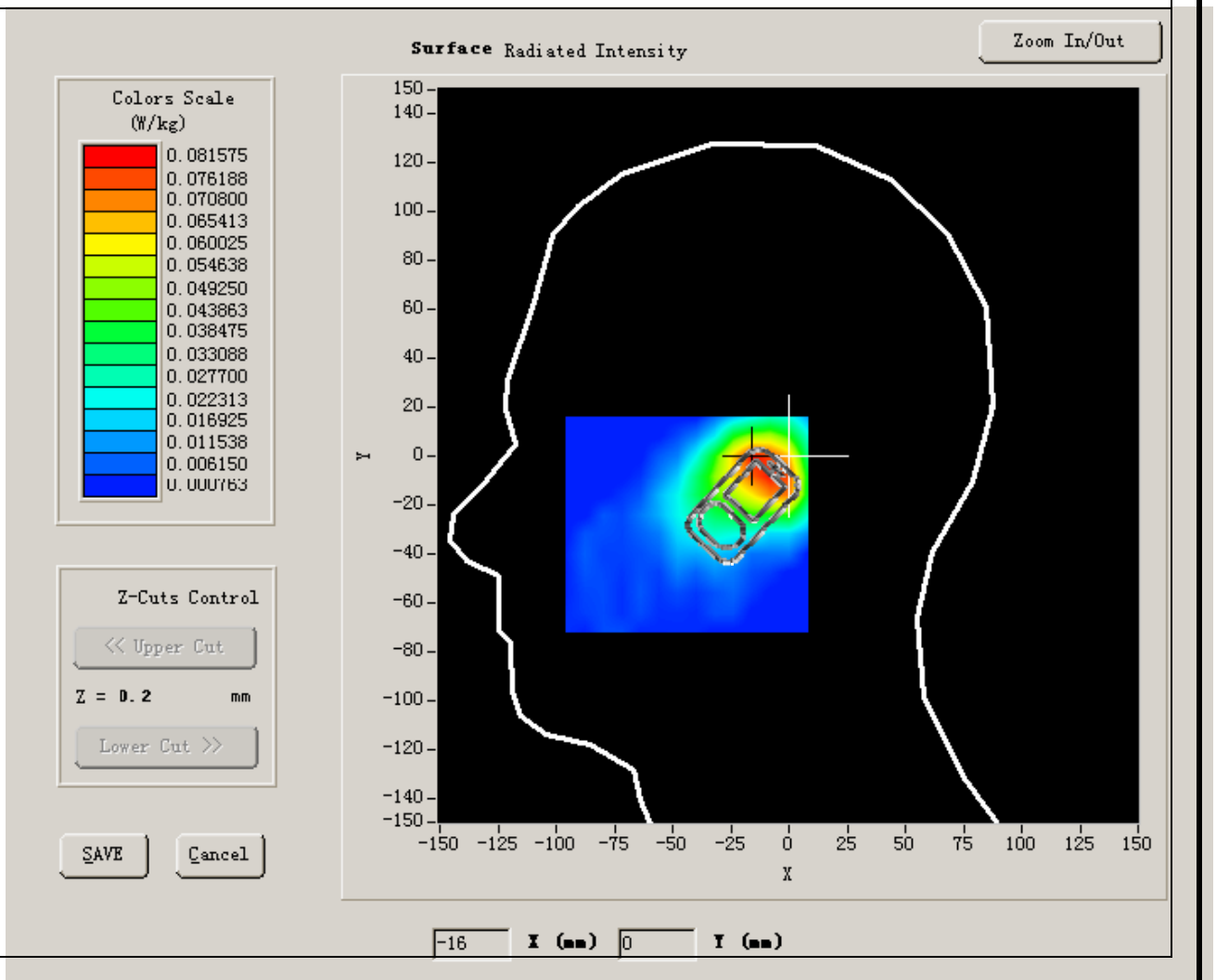
B. SAR Measurement Results

Higher Band SAR (Channel 810):

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

Conductivity (S/m)	1.395905
Variation (%)	-3.390000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

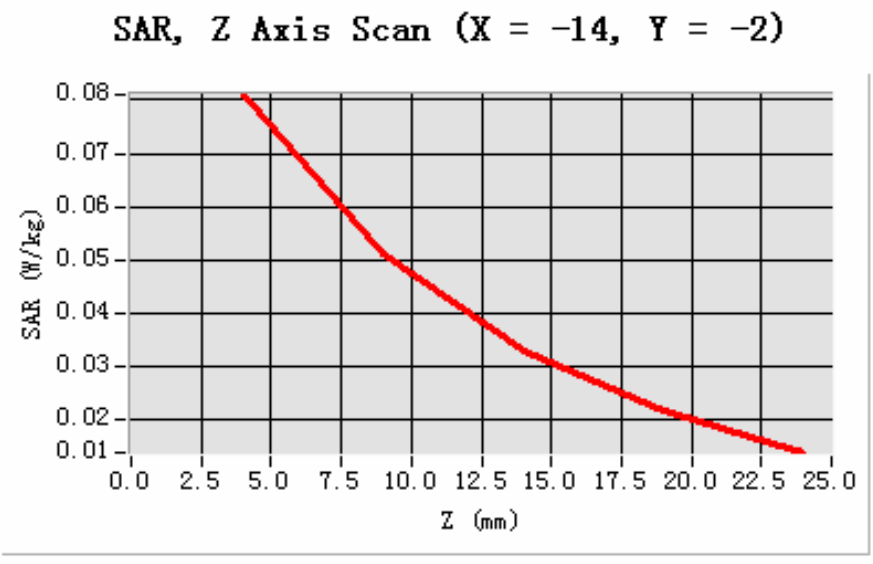


Maximum location: X=-14.00, Y=-2.00

SAR 10g (W/Kg)	0.047071
SAR 1g (W/Kg)	0.079170

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0810	0.0513	0.0329	0.0216



MEASUREMENT 22

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

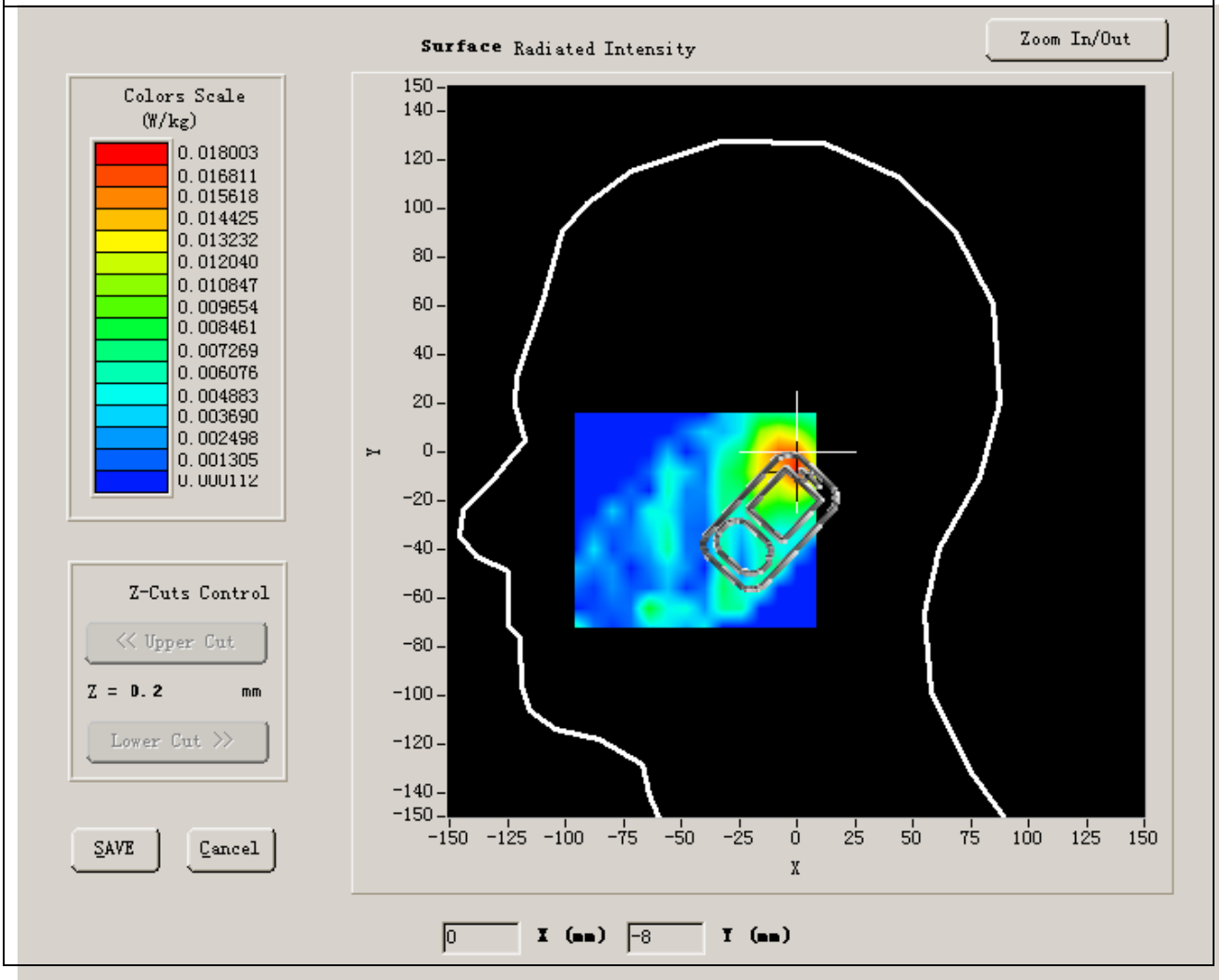
B. SAR Measurement Results

Lower Band SAR (Channel 512):

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

Conductivity (S/m)	1.335397
Variation (%)	-0.040000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

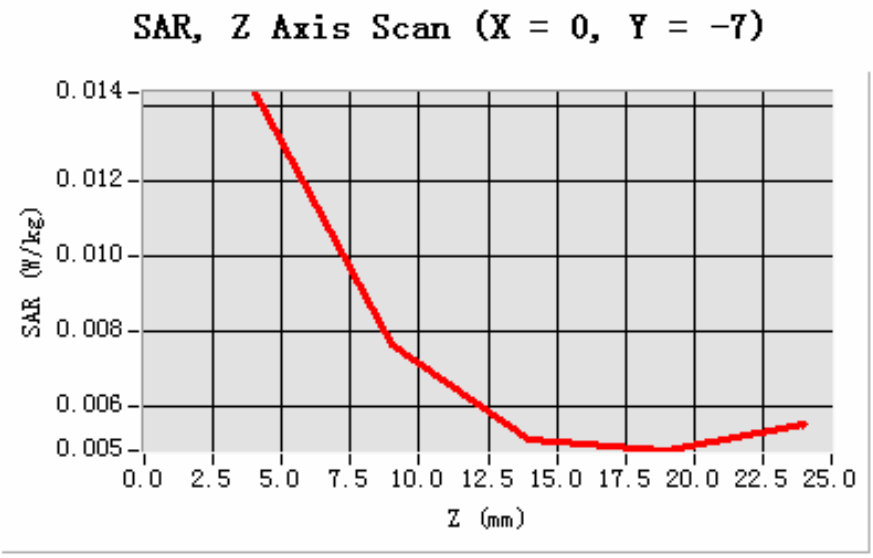


Maximum location: X=0.00, Y=-7.00

SAR 10g (W/Kg)	0.008035
SAR 1g (W/Kg)	0.013771

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0144	0.0077	0.0051	0.0048



MEASUREMENT 23

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

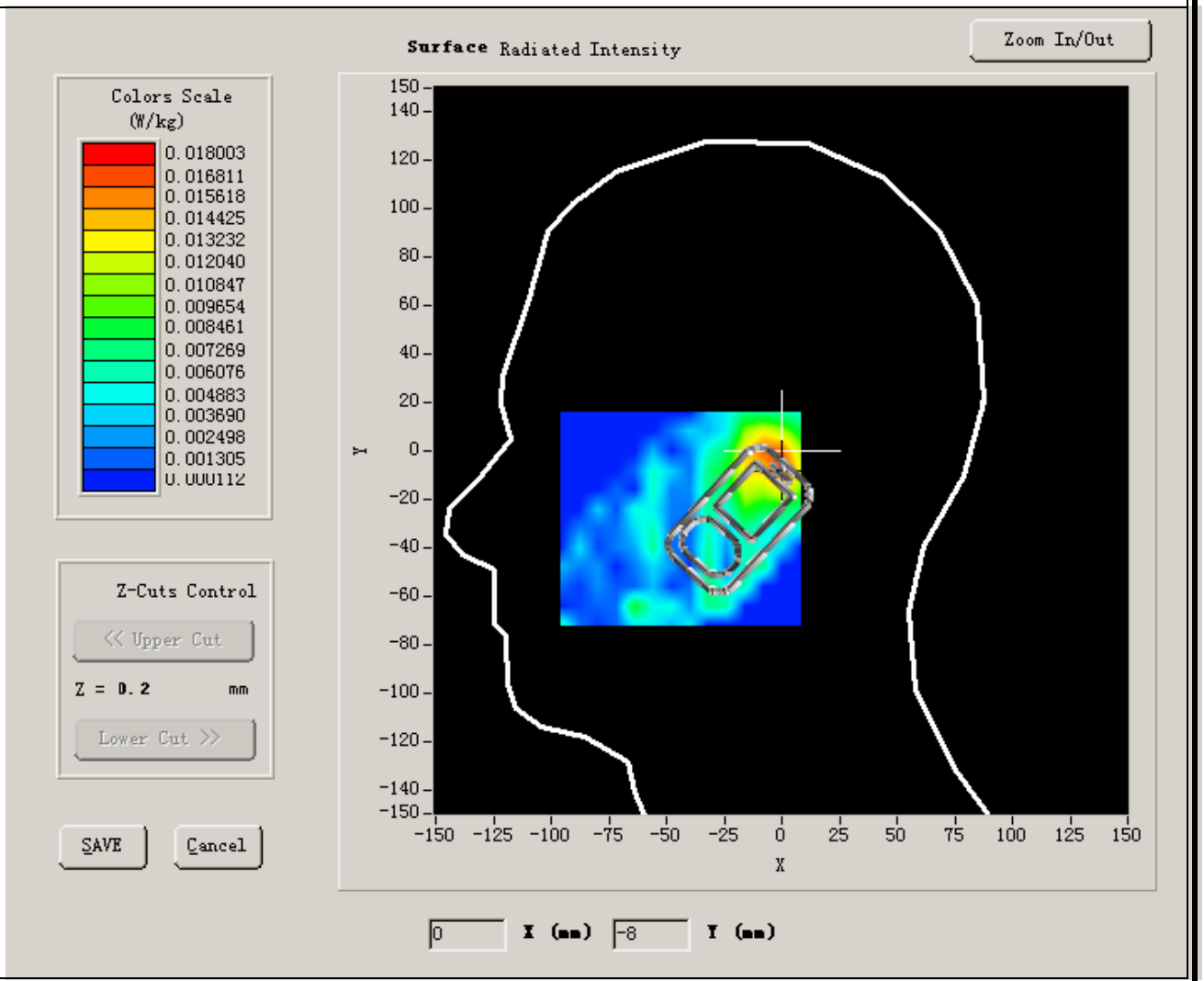
B. SAR Measurement Results

Lower Band SAR (Channel 512):

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

Conductivity (S/m)	1.335397
Variation (%)	-0.040000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

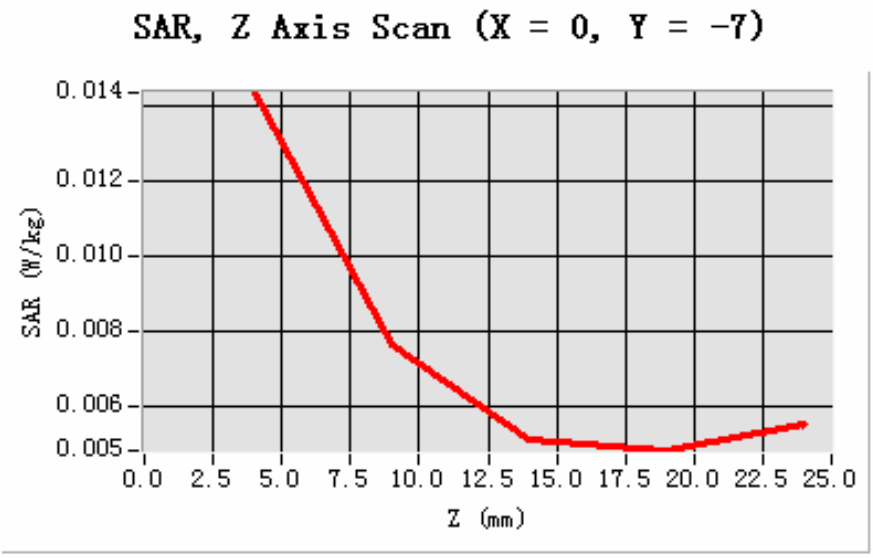


Maximum location: X=0.00, Y=-7.00

SAR 10g (W/Kg)	0.028785
SAR 1g (W/Kg)	0.047568

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0144	0.0077	0.0051	0.0048



MEASUREMENT 24

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

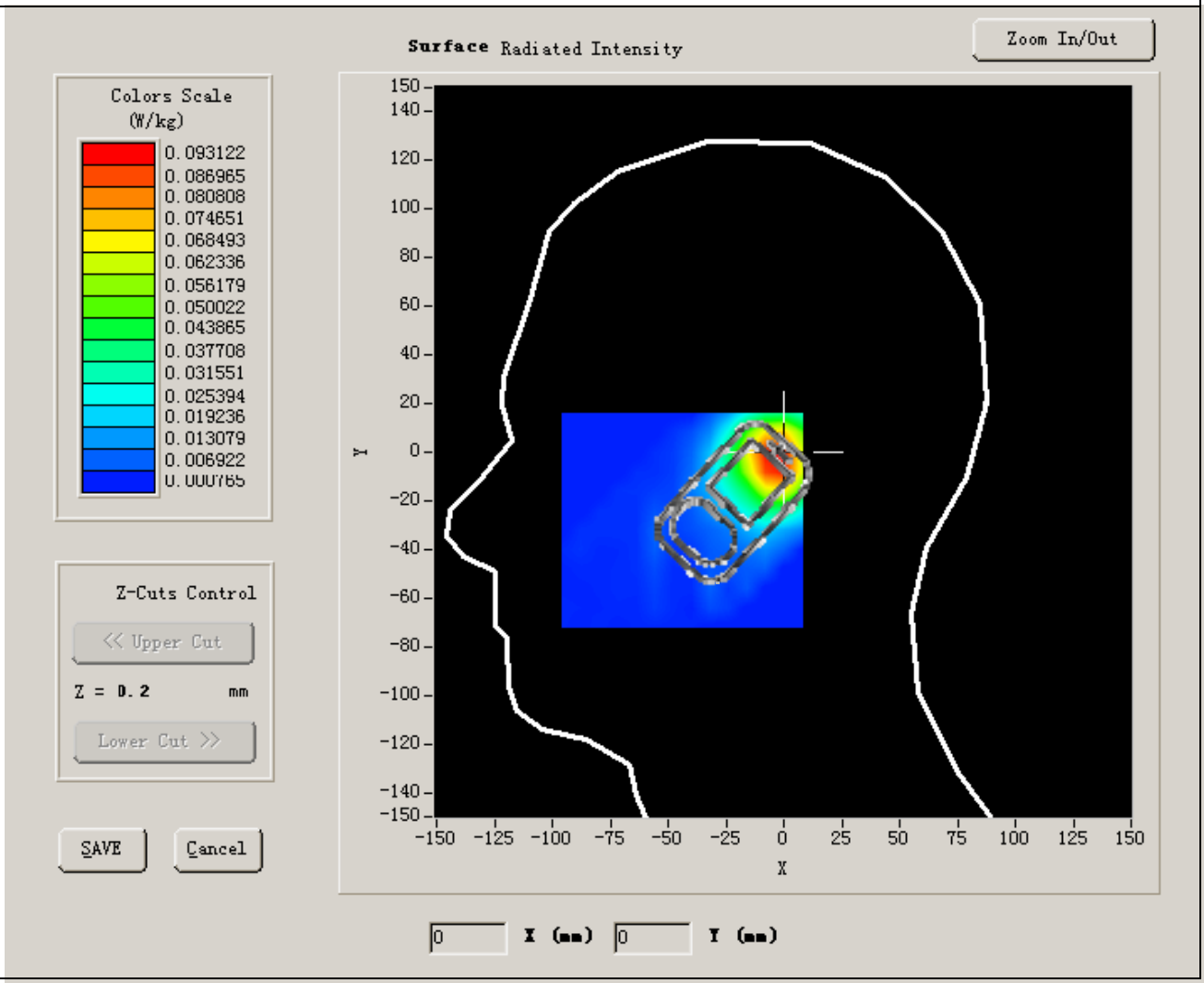
B. SAR Measurement Results

Higher Band SAR (Channel 810):

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

Conductivity (S/m)	1.395905
Variation (%)	-1.730000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

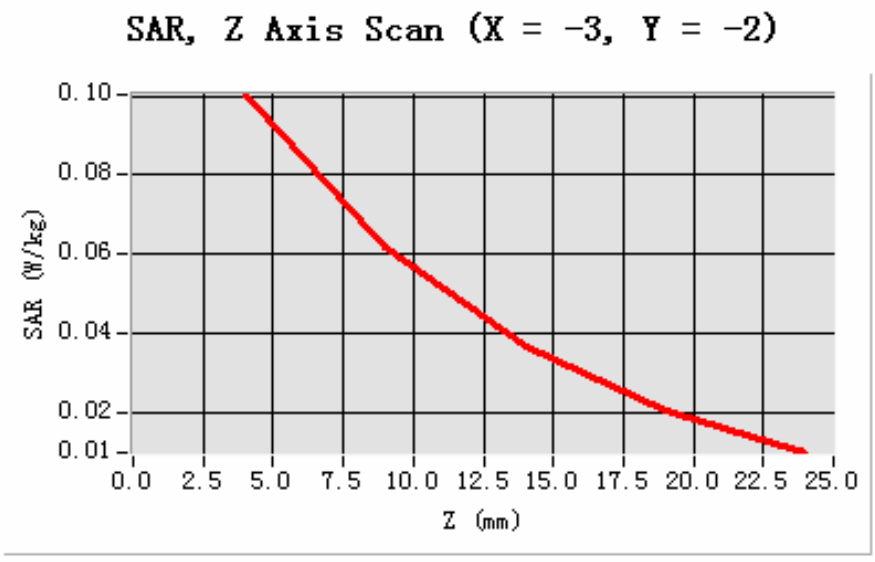


Maximum location: X=-3.00, Y=-2.00

SAR 10g (W/Kg)	0.052010
SAR 1g (W/Kg)	0.093231

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1003	0.0620	0.0368	0.0206



MEASUREMENT 25

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

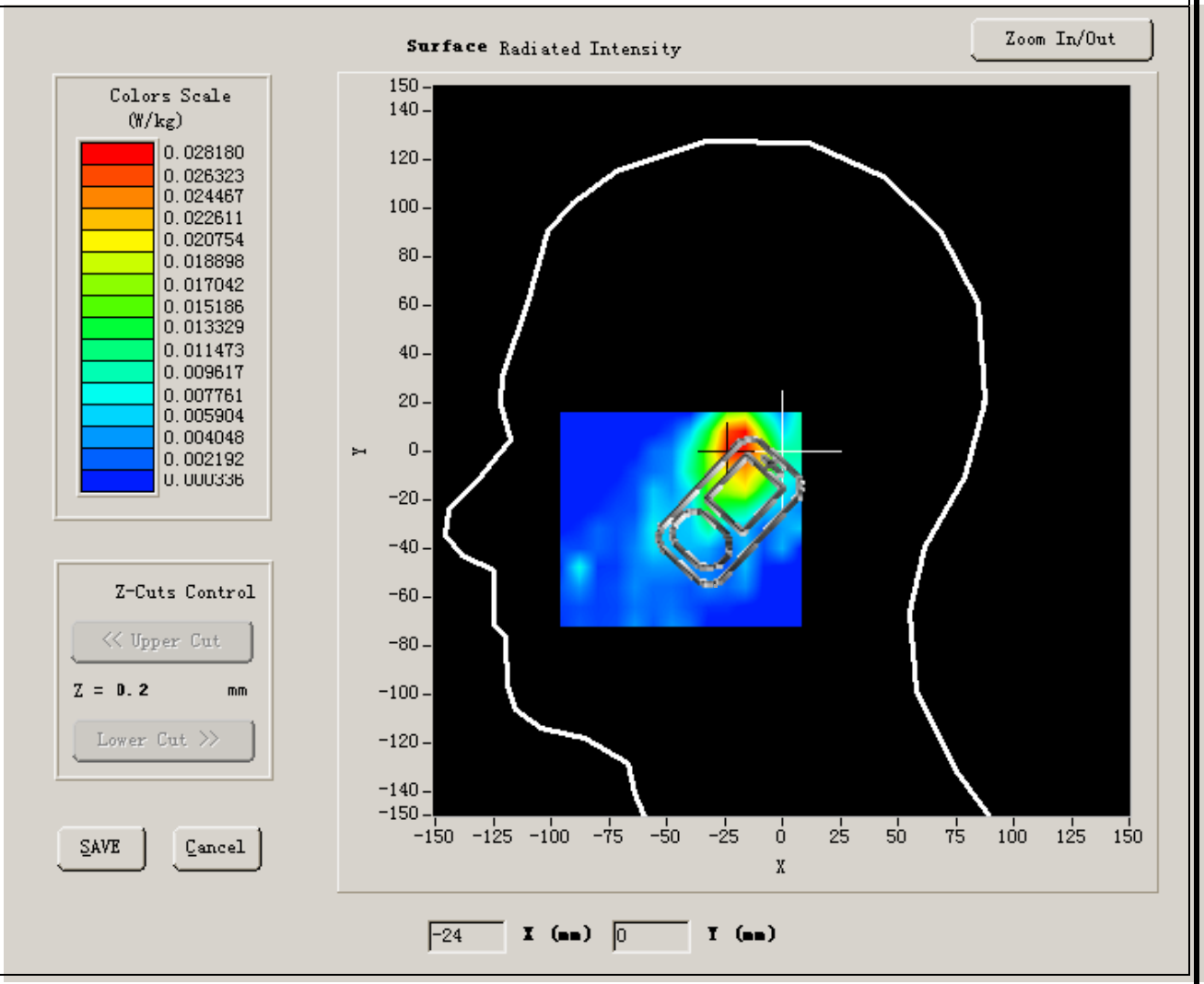
B. SAR Measurement Results

Lower Band SAR (Channel 512):

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

Conductivity (S/m)	1.335397
Variation (%)	-4.410000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

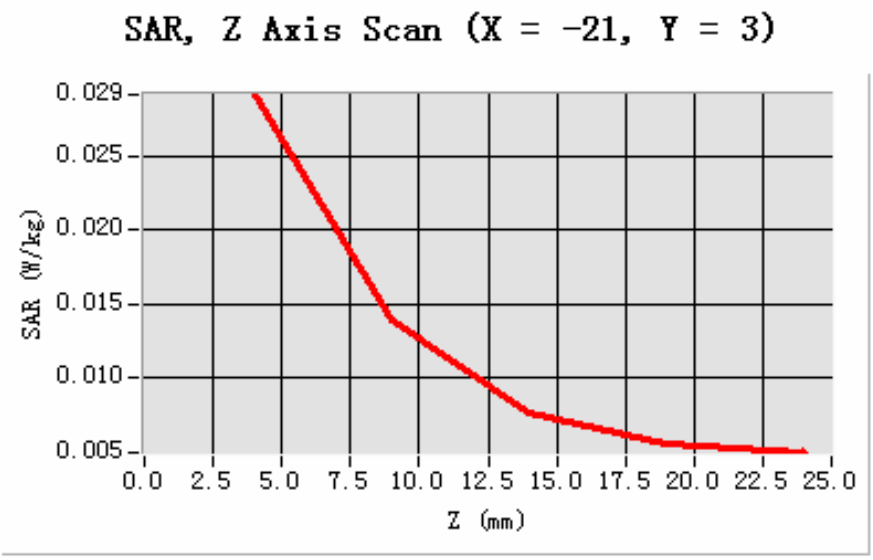


Maximum location: X=-21.00, Y=3.00

SAR 10g (W/Kg)	0.014728
SAR 1g (W/Kg)	0.028003

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0291	0.0140	0.0076	0.0055



MEASUREMENT 26

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

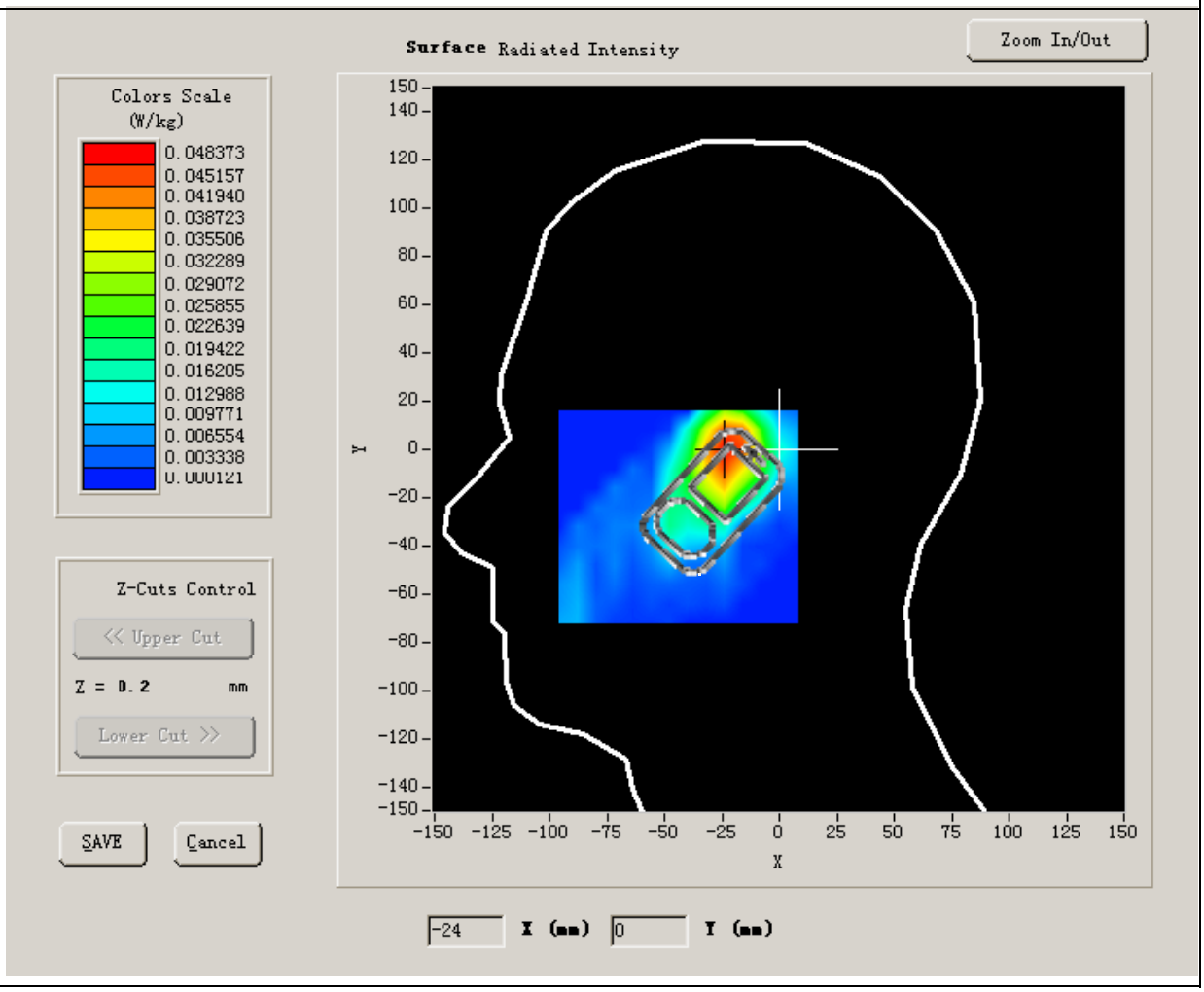
B. SAR Measurement Results

Middle Band SAR (Channel 661):

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

Conductivity (S/m)	1.436111
Variation (%)	-3.750000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

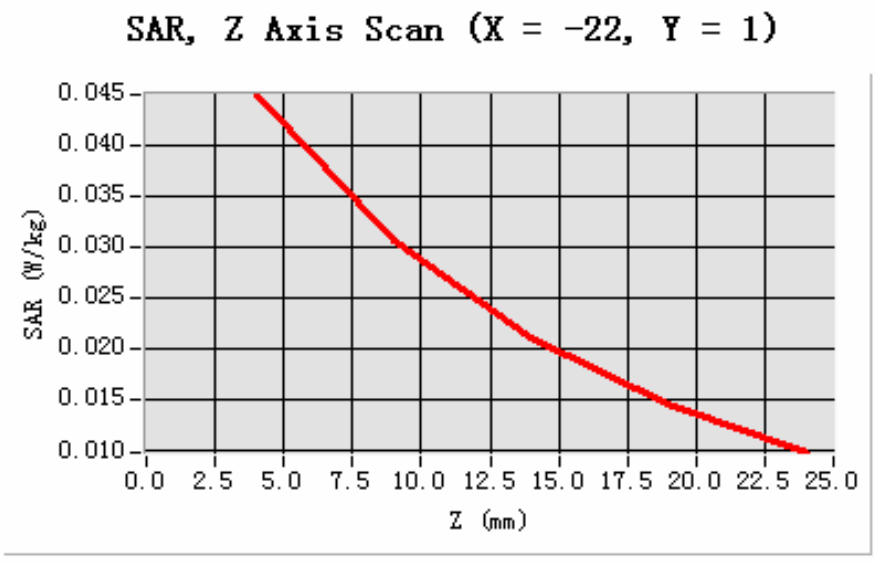


Maximum location: X=-22.00, Y=1.00

SAR 10g (W/Kg)	0.026661
SAR 1g (W/Kg)	0.042719

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0451	0.0308	0.0211	0.0146



MEASUREMENT 27

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

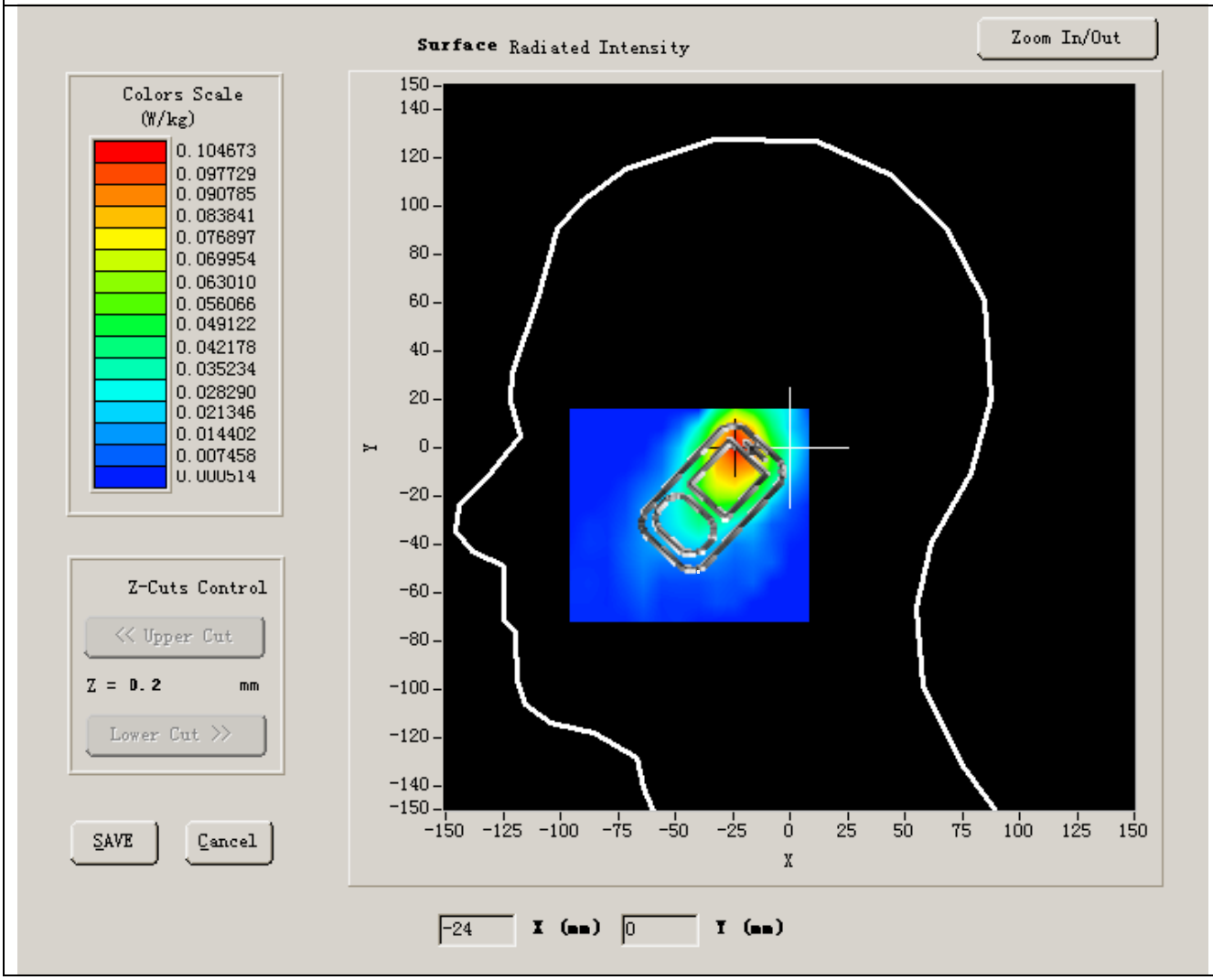
B. SAR Measurement Results

Higher Band SAR (Channel 810):

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

Conductivity (S/m)	1.395905
Variation (%)	-2.590000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

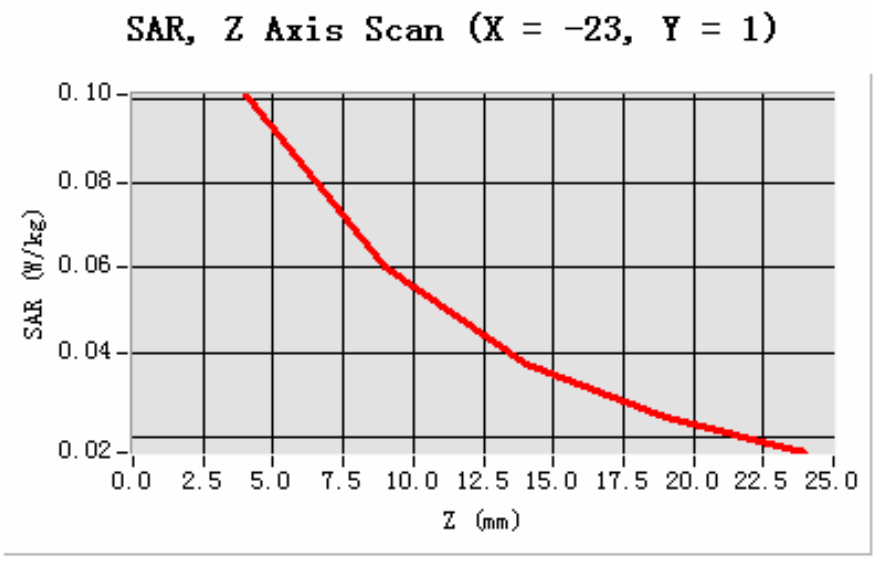


Maximum location: X=-23.00, Y=1.00

SAR 10g (W/Kg)	0.055443
SAR 1g (W/Kg)	0.095429

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1012	0.0605	0.0372	0.0243



MEASUREMENT 28

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

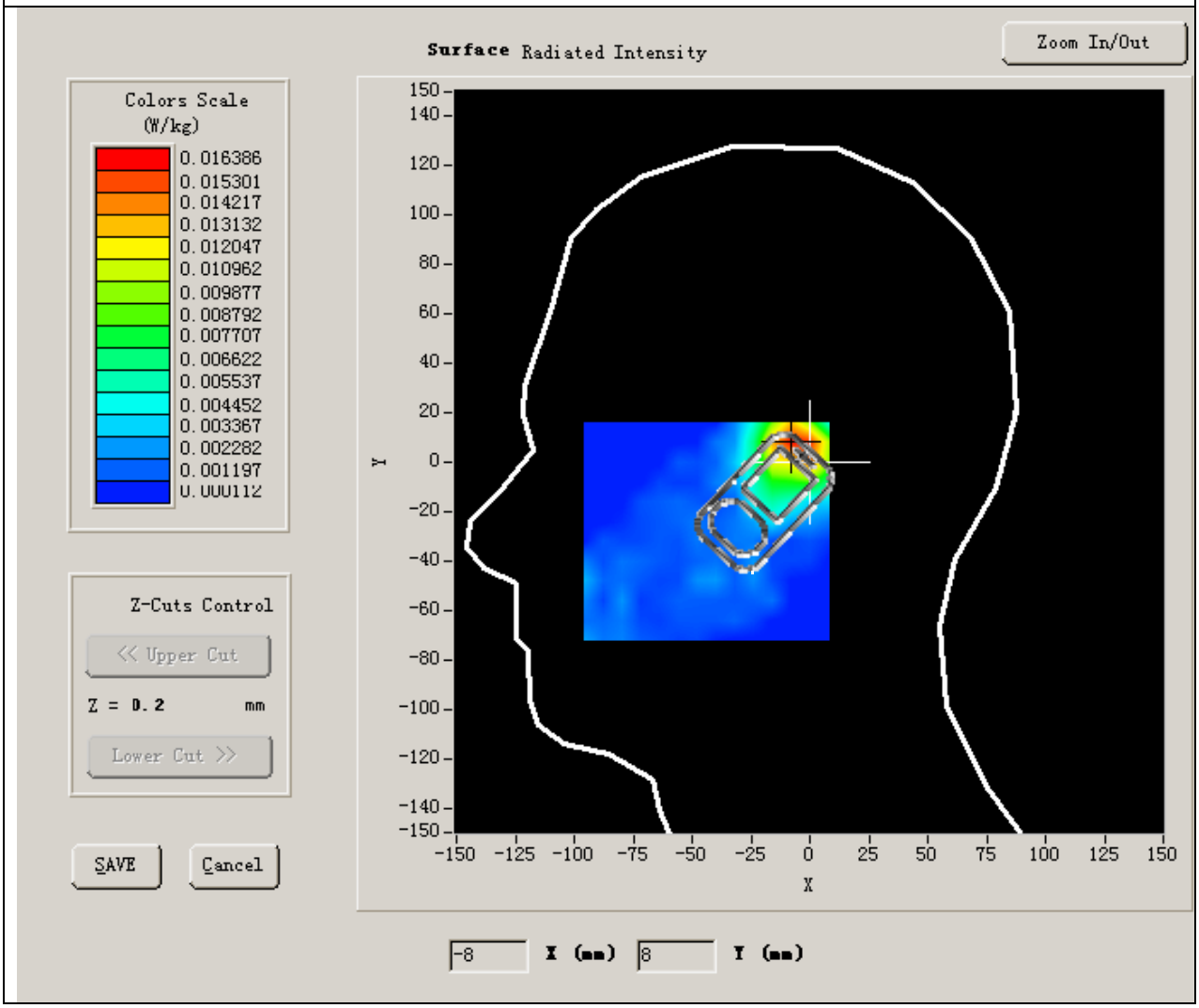
B. SAR Measurement Results

Lower Band SAR (Channel 512):

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

Conductivity (S/m)	1.335397
Variation (%)	-2.570000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

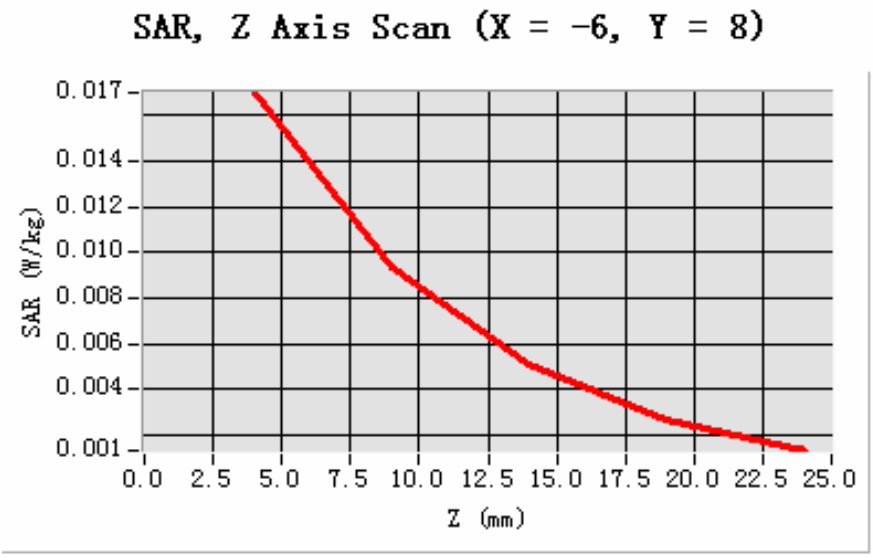


Maximum location: X=-6.00, Y=8.00

SAR 10g (W/Kg)	0.008280
SAR 1g (W/Kg)	0.015717

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0170	0.0094	0.0050	0.0027



MEASUREMENT 29

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

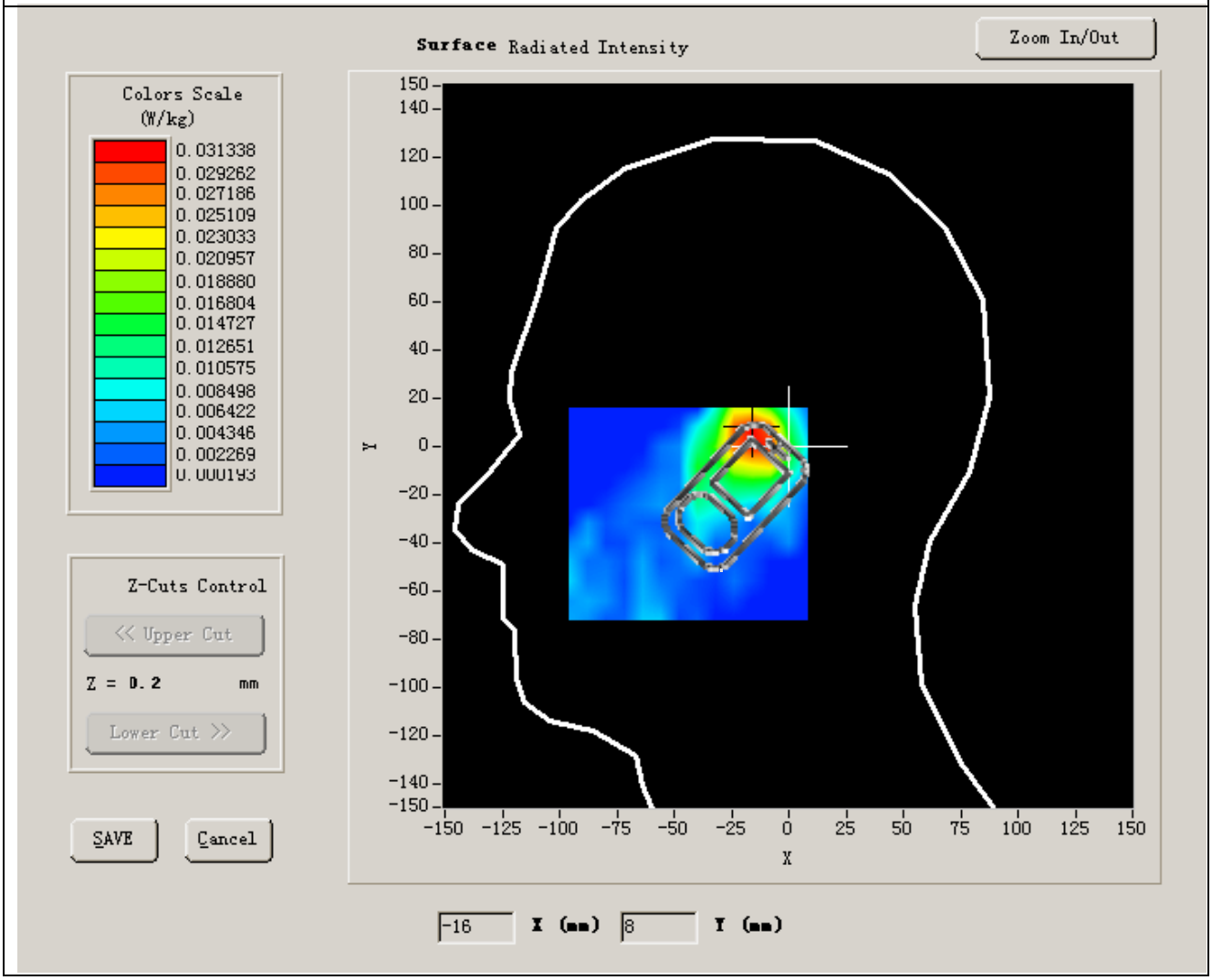
B. SAR Measurement Results

Middle Band SAR (Channel 661):

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

Conductivity (S/m)	1.436111
Variation (%)	-2.630000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

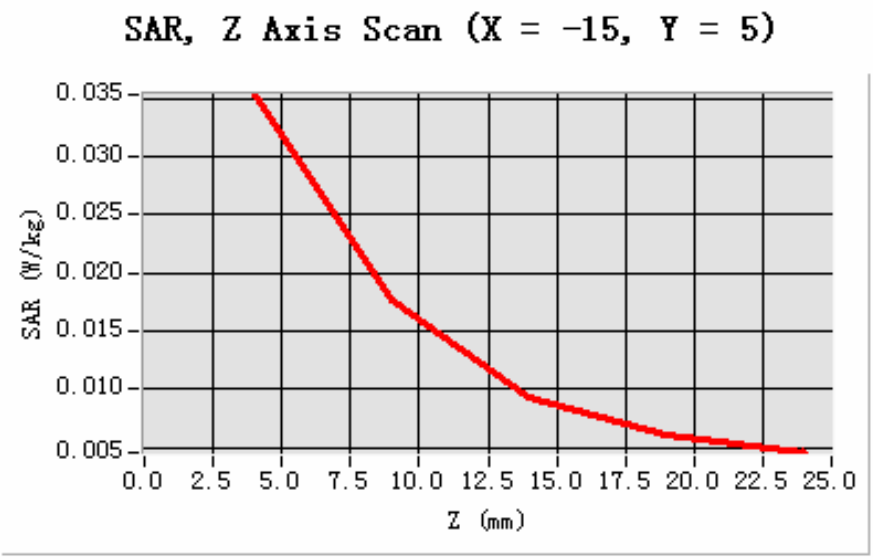


Maximum location: X=-15.00, Y=5.00

SAR 10g (W/Kg)	0.017816
SAR 1g (W/Kg)	0.033787

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0354	0.0176	0.0094	0.0061



MEASUREMENT 30

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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

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

A. Experimental conditions.

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

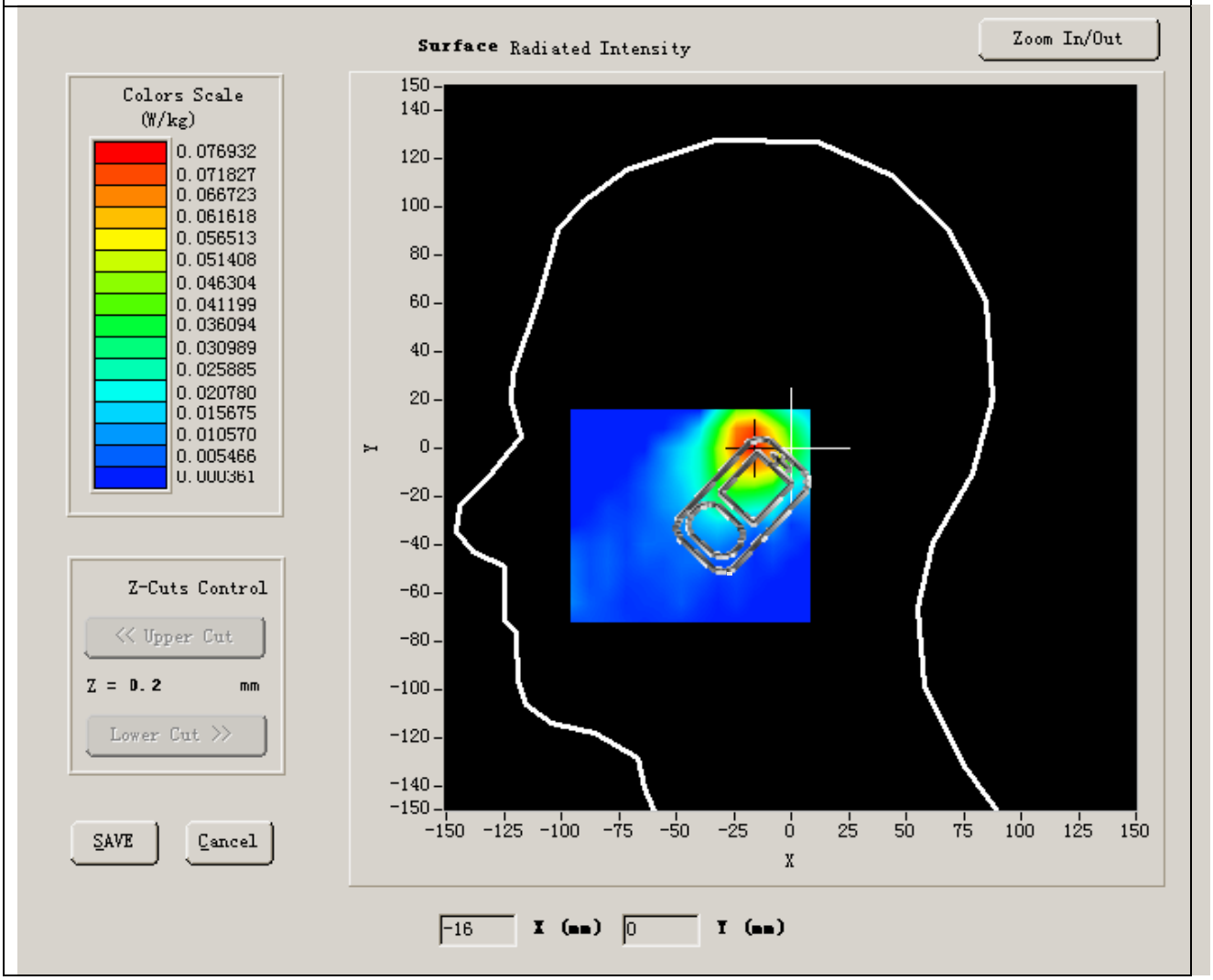
B. SAR Measurement Results

Higher Band SAR (Channel 810):

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

Conductivity (S/m)	1.395905
Variation (%)	1.380000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

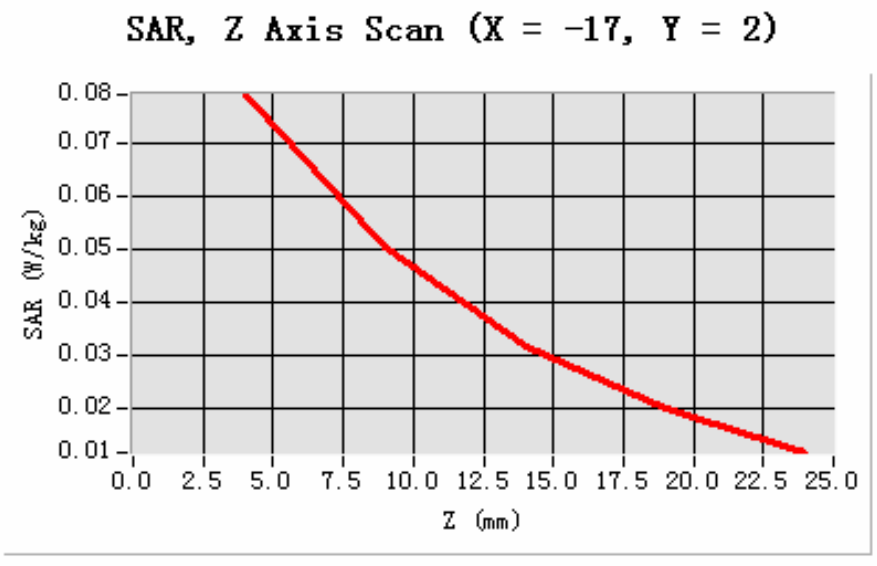


Maximum location: X=-17.00, Y=2.00

SAR 10g (W/Kg)	0.044178
SAR 1g (W/Kg)	0.074292

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0791	0.0504	0.0318	0.0200



MEASUREMENT 31

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	Cheek
Band	GSM1900
Channels	Low
Signal	TDMA

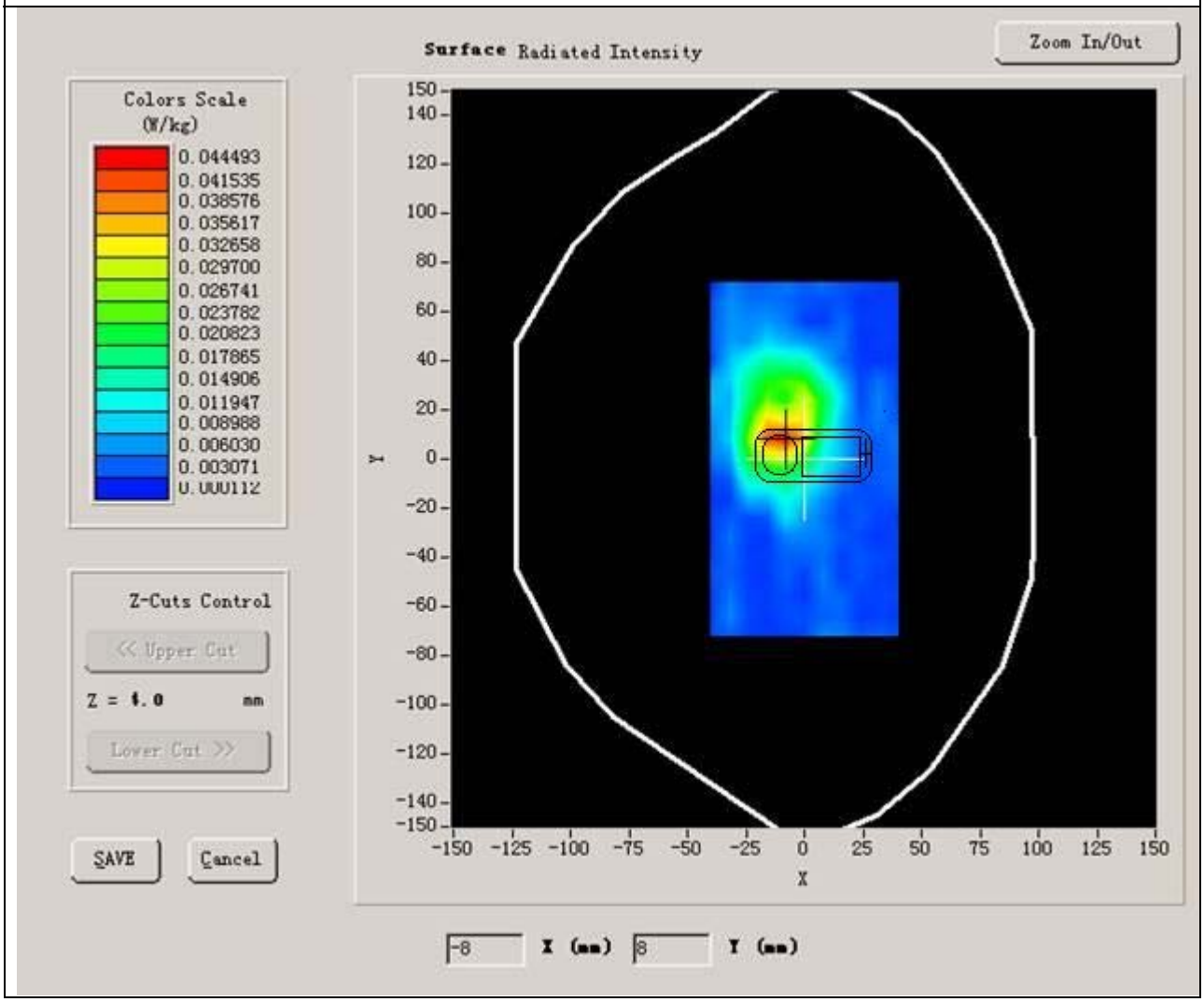
B. SAR Measurement Results

Lower Band SAR (Channel 512):

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

Conductivity (S/m)	1.233467
Variation (%)	-7.700000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

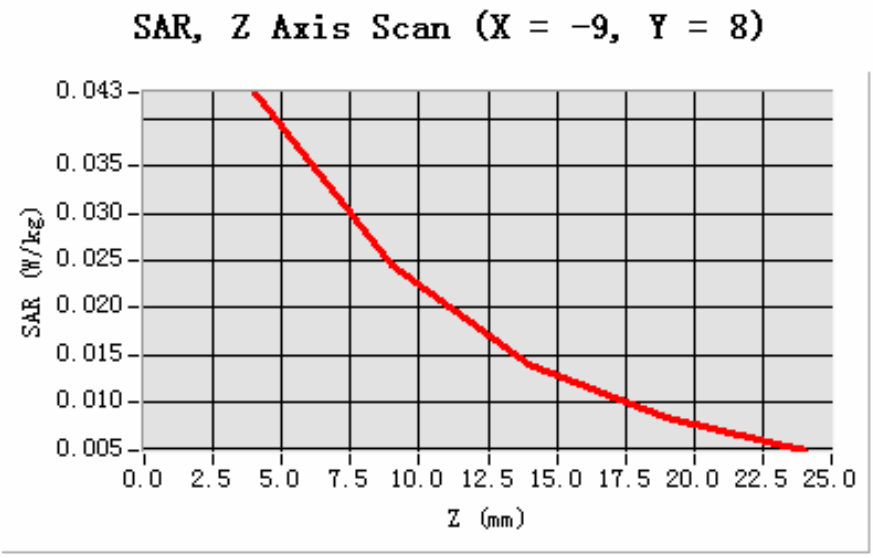


Maximum location: X=-9.00, Y=8.00

SAR 10g (W/Kg)	0.020834
SAR 1g (W/Kg)	0.039428

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0428	0.0245	0.0141	0.0083



MEASUREMENT 32

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	Cheek
Band	GSM1900
Channels	Middle
Signal	TDMA

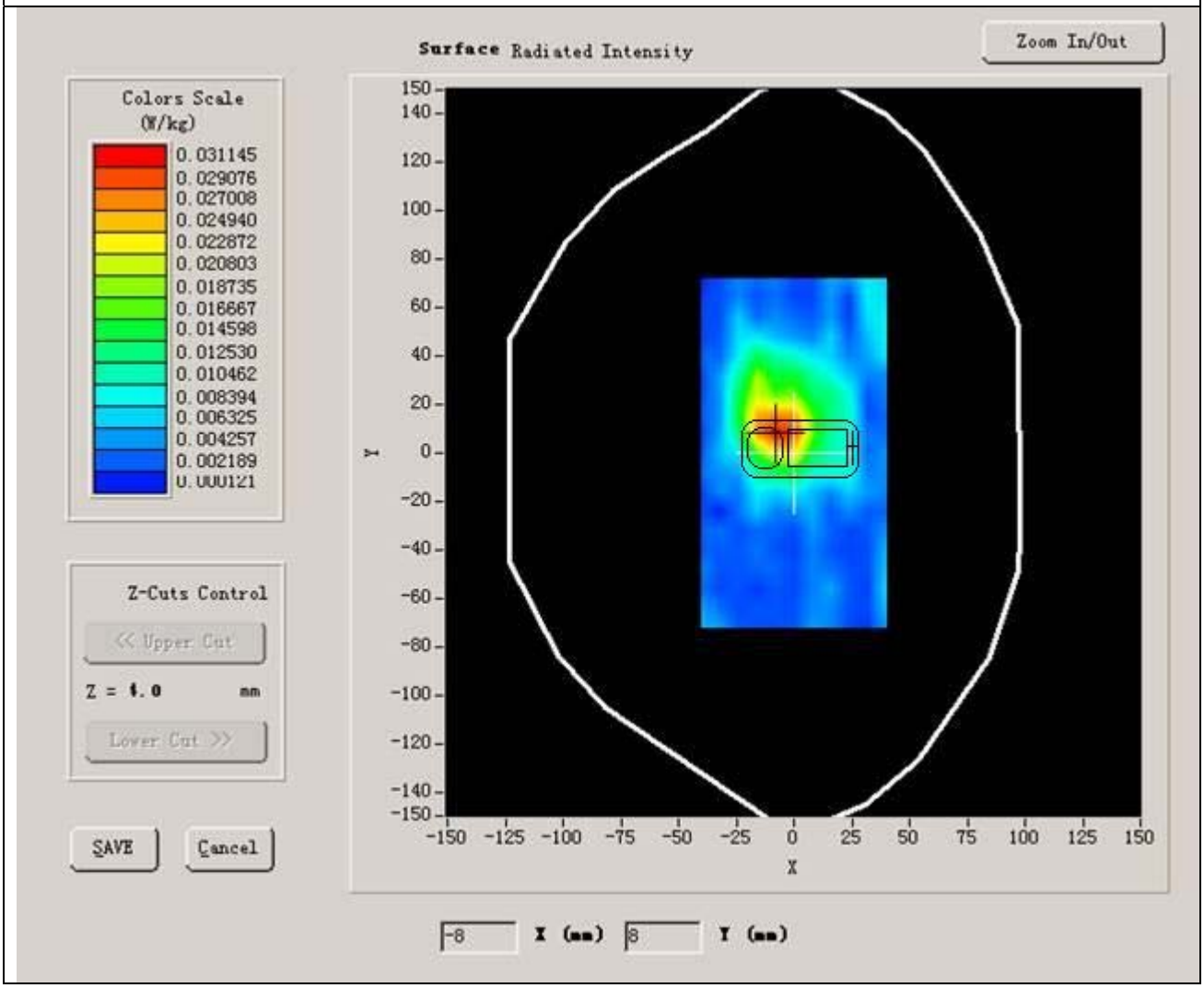
B. SAR Measurement Results

Middle Band SAR (Channel 661):

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

Conductivity (S/m)	1.573978
Variation (%)	4.510000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

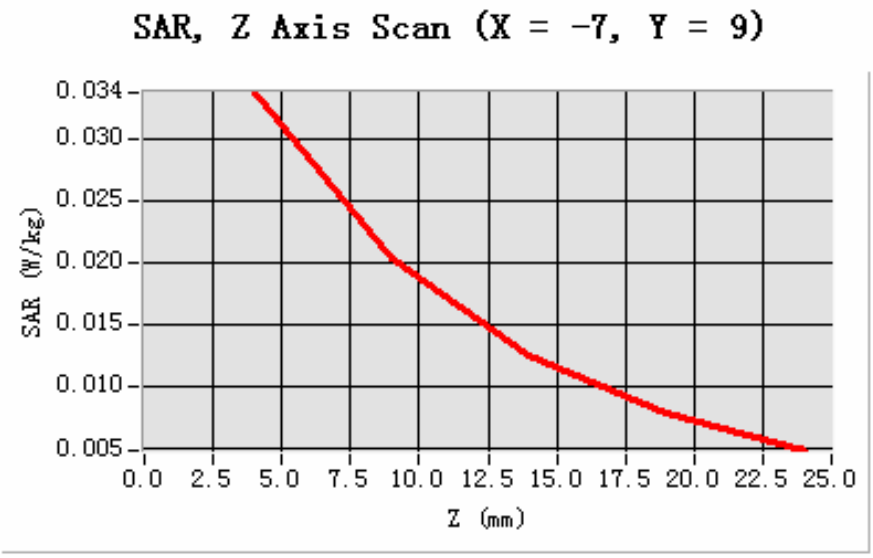


Maximum location: X=-7.00, Y=9.00

SAR 10g (W/Kg)	0.017862
SAR 1g (W/Kg)	0.031781

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0338	0.0204	0.0124	0.0078



MEASUREMENT 33

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	Cheek
Band	GSM1900
Channels	High
Signal	TDMA

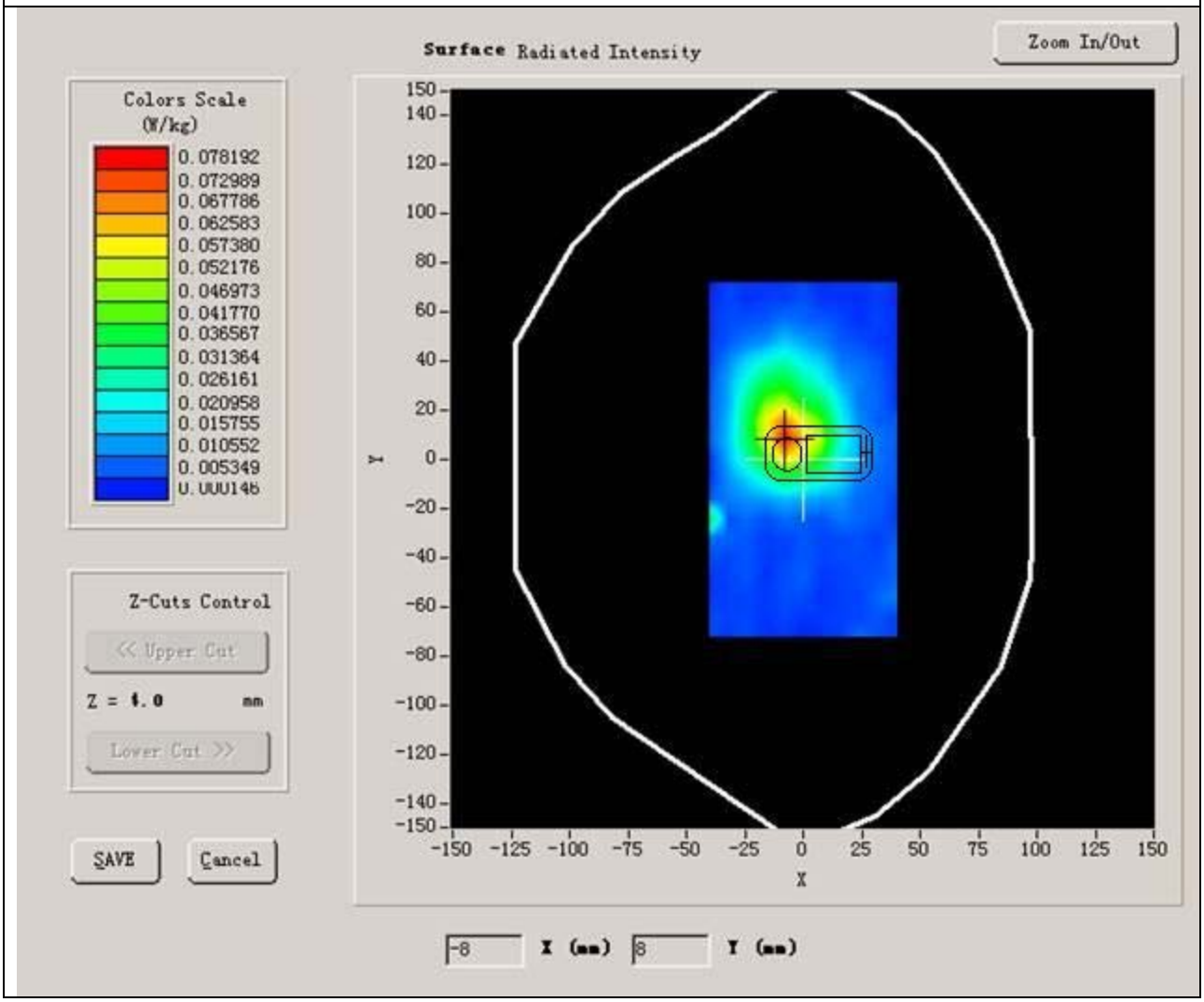
B. SAR Measurement Results

Higher Band SAR (Channel 810):

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

Conductivity (S/m)	1.273200
Variation (%)	-3.790000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

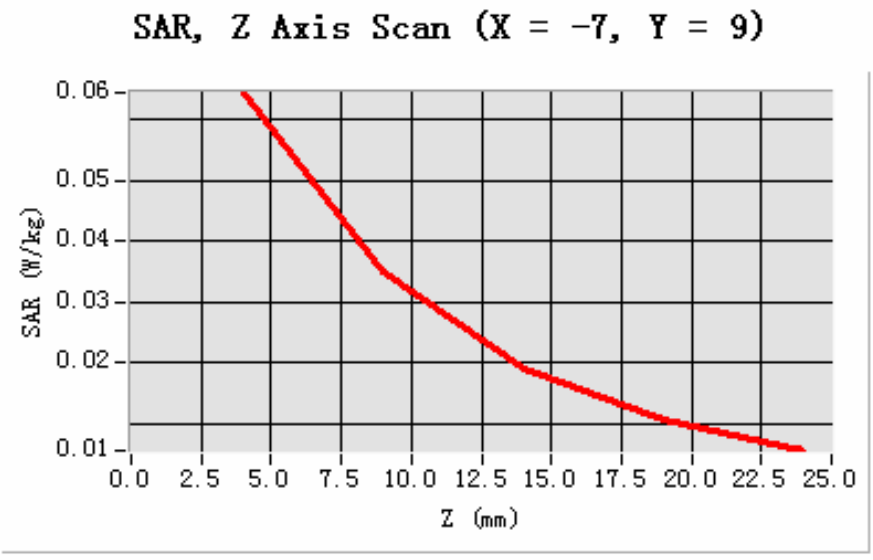


Maximum location: X=-7.00, Y=9.00

SAR 10g (W/Kg)	0.031651
SAR 1g (W/Kg)	0.060206

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0644	0.0351	0.0190	0.0106



MEASUREMENT 34

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	Cheek
Band	GSM1900
Channels	High
Signal	TDMA

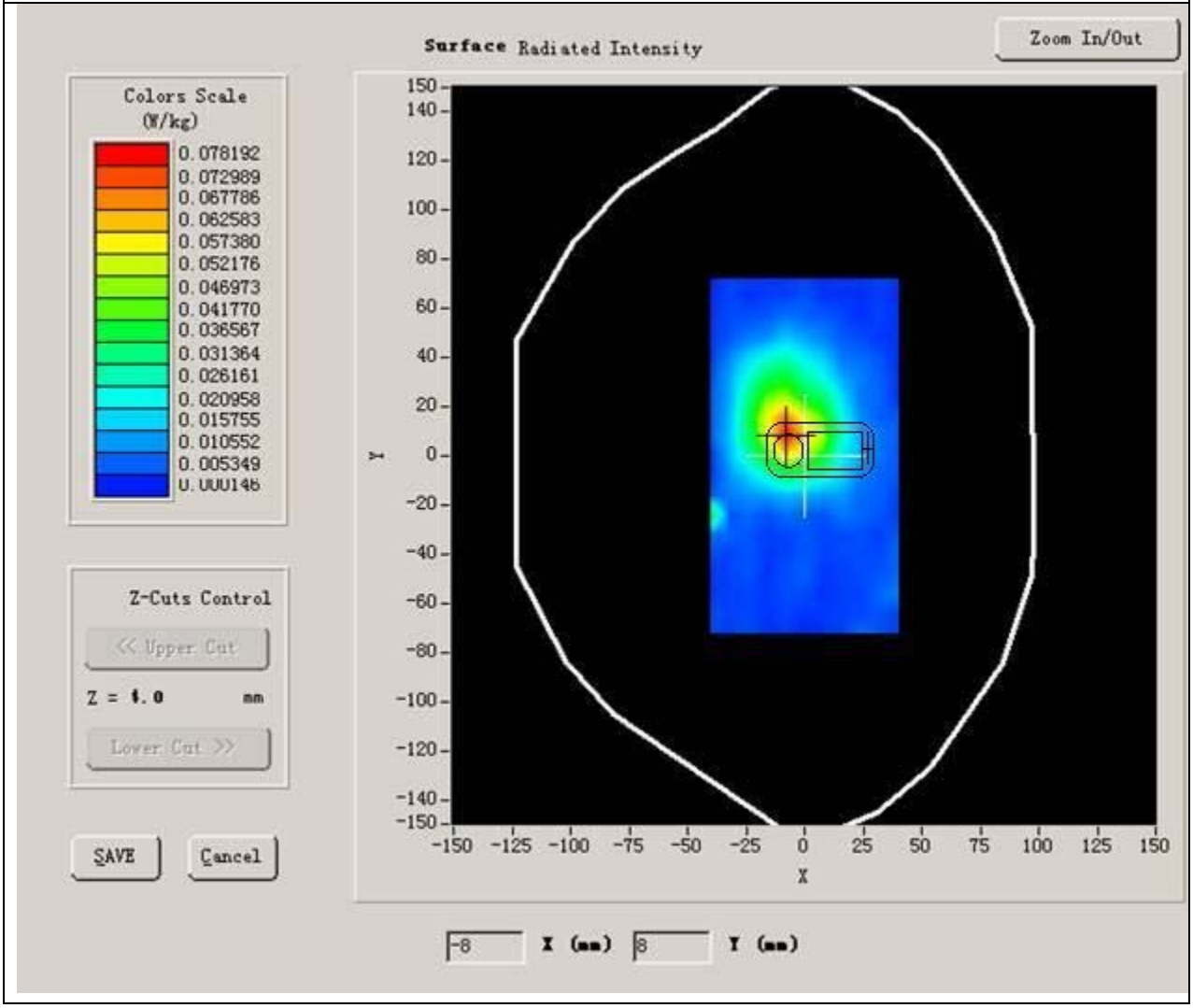
B. SAR Measurement Results

Higher Band SAR (Channel 810):

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

Conductivity (S/m)	1.273200
Variation (%)	-3.790000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

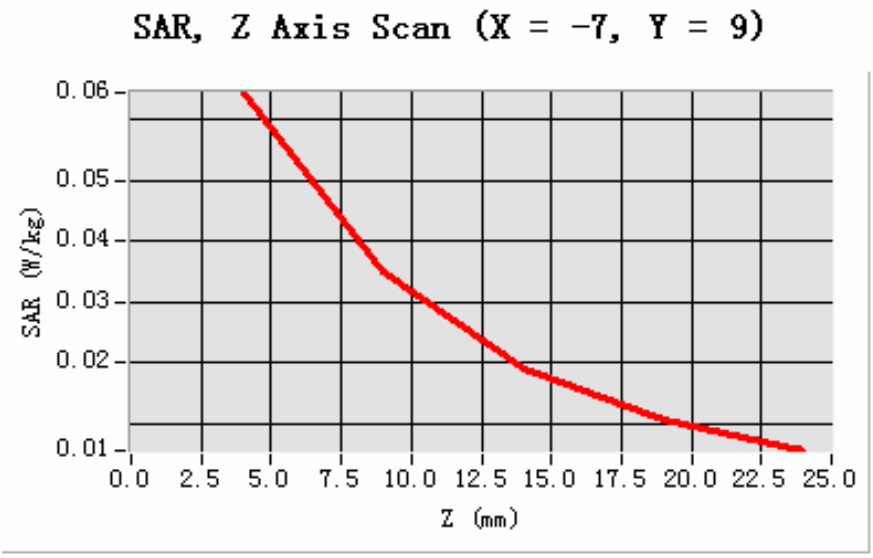


Maximum location: X=-7.00, Y=9.00

SAR 10g (W/Kg)	0.0237884
SAR 1g (W/Kg)	0.045993

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0644	0.0351	0.0190	0.0106



System Performance Check Data(835MHz Head)

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	GSM

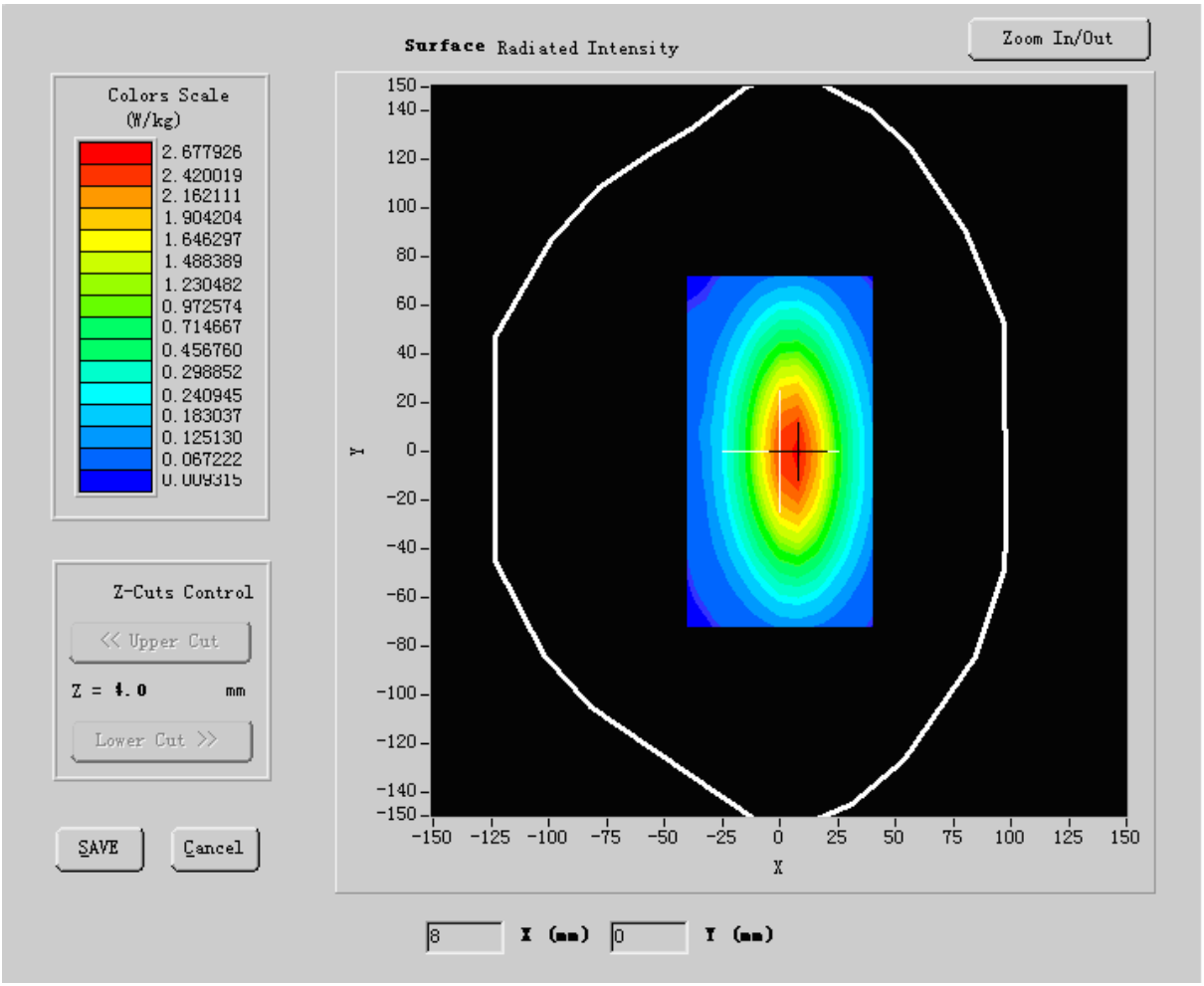
B. SAR Measurement Results

Middle Band SAR:

Frequency (MHz)	835.00000
Relative permittivity (real part)	41.790001
Relative permittivity (imaginary part)	18.926250

Conductivity (S/m)	0.866612
Variation (%)	-0.050000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

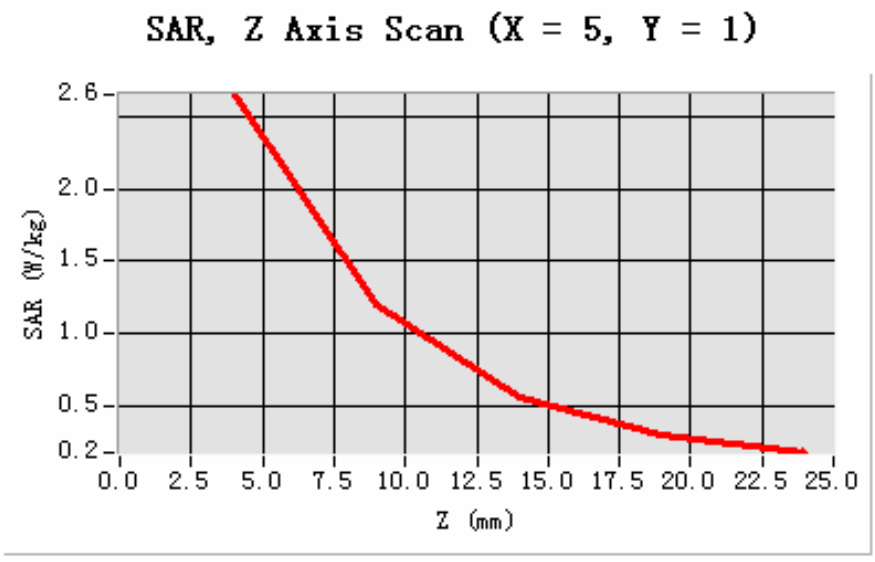


Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	1.875252
SAR 1g (W/Kg)	2.709422

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



System Performance Check Data(835MHz Body)

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	GSM

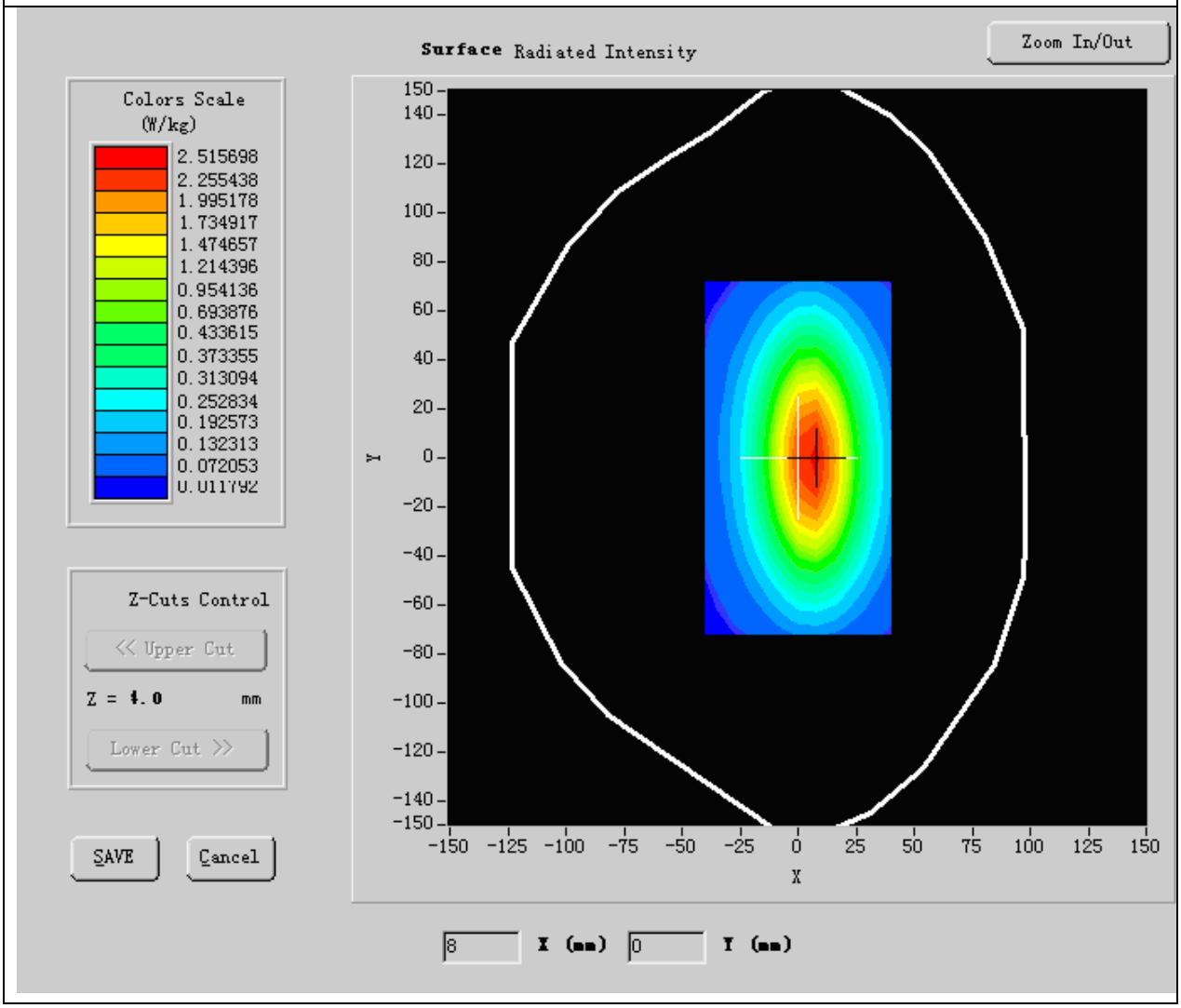
B. SAR Measurement Results

Middle Band SAR:

Frequency (MHz)	835.000000
Relative permittivity (real part)	54.872231
Relative permittivity (imaginary part)	15.070000

Conductivity (S/m)	1.054822
Variation (%)	-0.140000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	28.479,25.214,27.196

SURFACE SAR

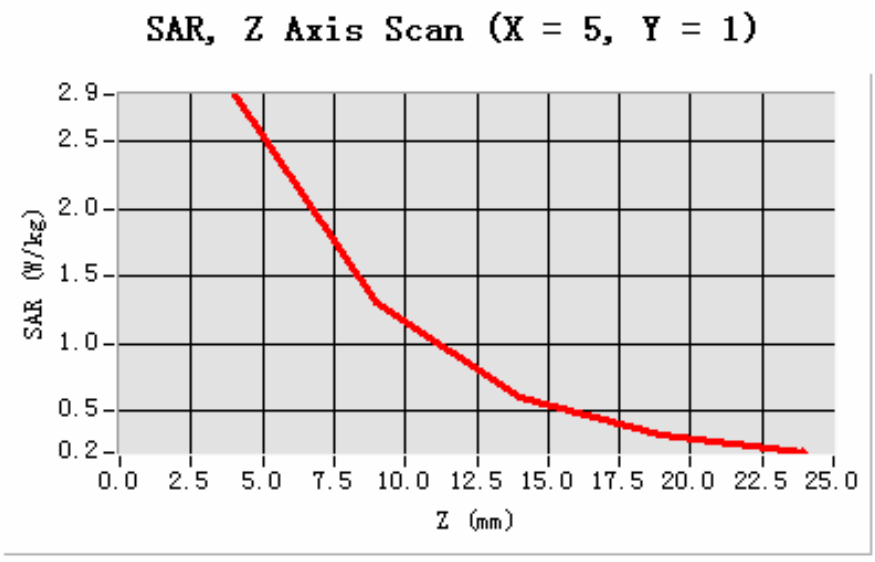


Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	1.652852
SAR 1g (W/Kg)	2.701584

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



System Performance Check Data(1900MHz Head)

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	GSM

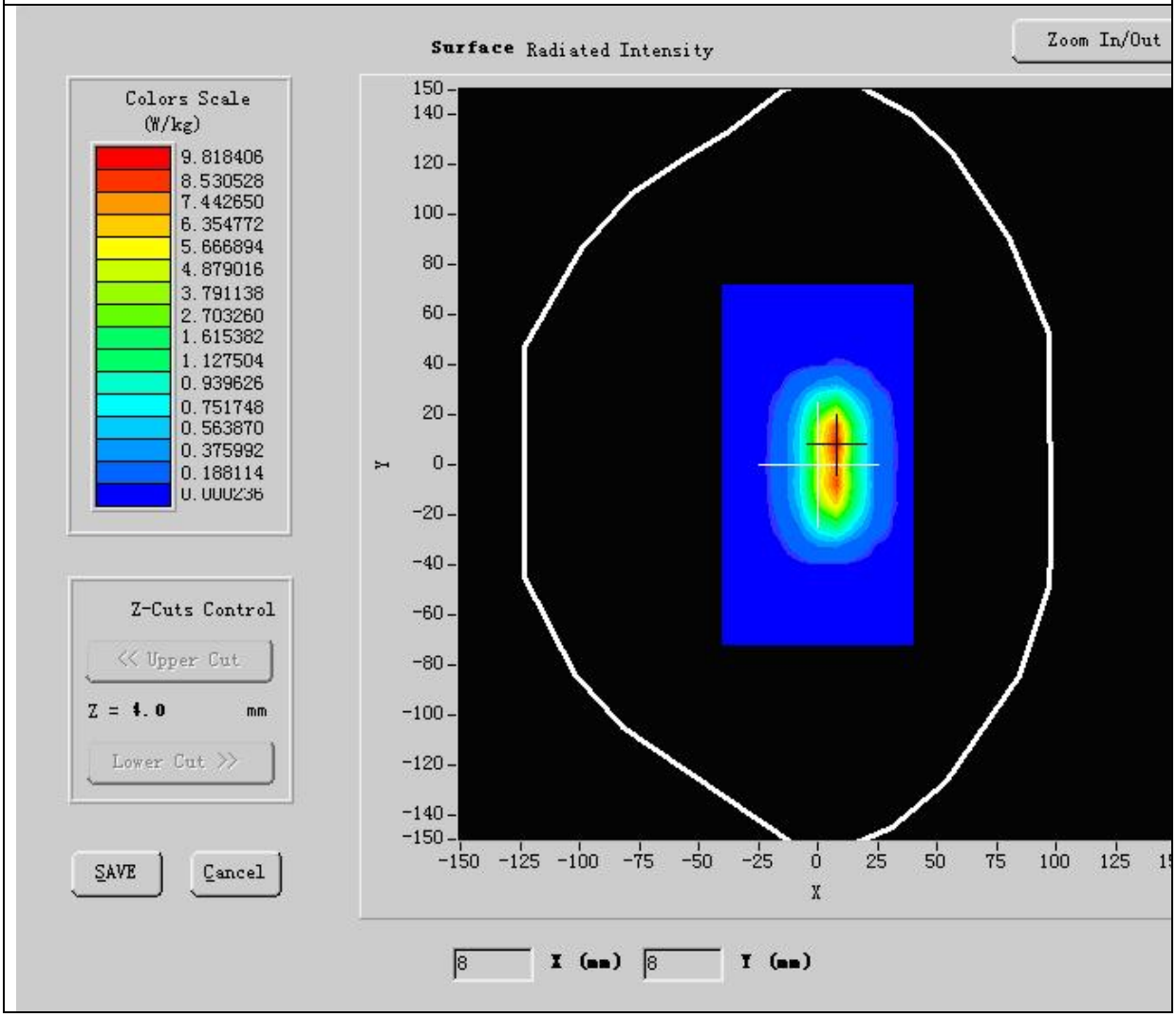
B. SAR Measurement Results

Lower Band SAR:

Frequency (MHz)	1900.000000
Relative permittivity (real part)	39.481223
Relative permittivity (imaginary part)	12.991650

Conductivity (S/m)	1.395758
Variation (%)	0.570000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR

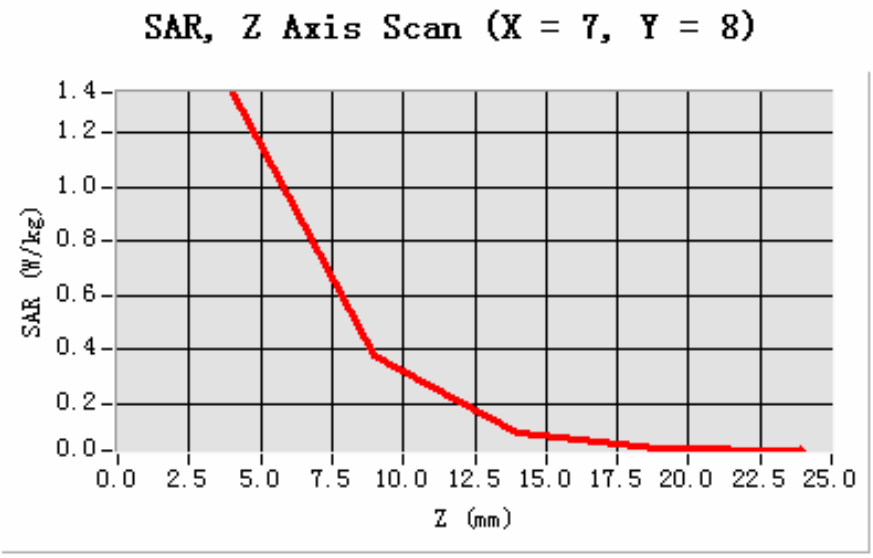


Maximum location: X=7.00, Y=8.00

SAR 10g (W/Kg)	5.873331
SAR 1g (W/Kg)	9.843651

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	1.3503	0.3791	0.0904	0.0338



System Performance Check Data(1900MHz Body)

Type: Phone measurement (Complete)

Date of measurement: 9/2/2009

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	TDMA(Crest factor: 8.0)

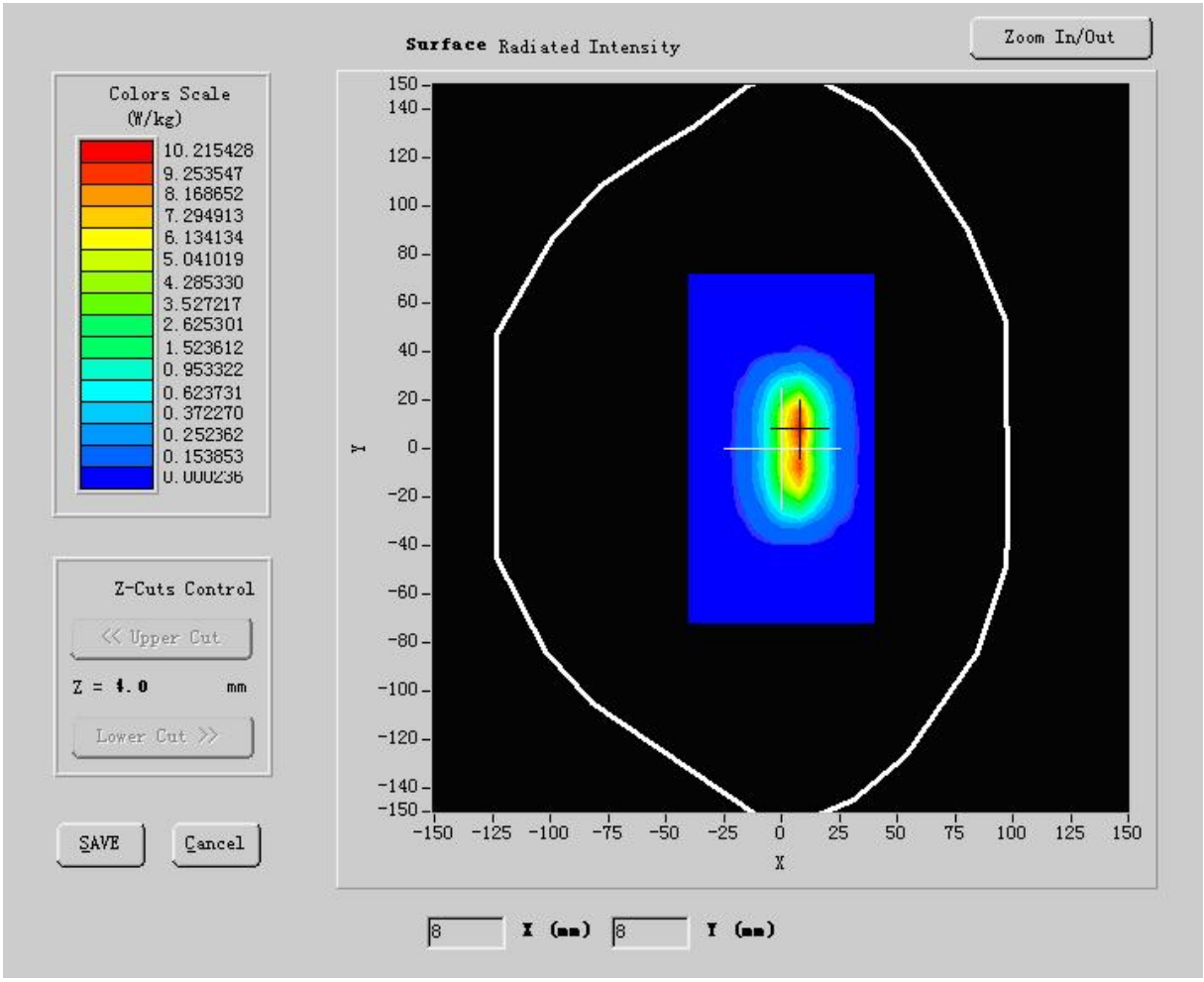
B. SAR Measurement Results

Lower Band SAR:

Frequency (MHz)	1900.000000
Relative permittivity (real part)	52.548876
Relative permittivity (imaginary part)	12.991650

Conductivity (S/m)	1.573978
Variation (%)	0.570000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	40.136,34.843,38.721

SURFACE SAR



Maximum location: X=7.00, Y=8.00

SAR 10g (W/Kg)	5.487222
SAR 1g (W/Kg)	10.225723

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	1.3503	0.3791	0.0904	0.0338