



REPORT No. : SZ17080130S02

SAR TEST REPORT

MANUFACTURER : Shenzhen Chainway Information Technology Co.,Ltd.

PRODUCT NAME : Mobile Data Terminal

MODEL NAME : C71

TRADE NAME : CHAINWAY

BRAND NAME : CHAINWAY

STANDARD(S) : EN 50360: 2001+A1: 2012
EN 50566: 2013/AC: 2014
EN 62209-1: 2016
EN 62209-2: 2010
EN 62479: 2010

ISSUE DATE : 2017-09-11

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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Change History		
Issue	Date	Reason for change
1.0	2017-09-11	First edition

**TEST REPORT DECLARATION**

Manufacturer	Shenzhen Chainway Information Technology Co.,Ltd.		
Manufacturer Address	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen		
Factory	Shenzhen Chainway Information Technology Co.,Ltd.		
Factory Address	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen		
Product Name	Mobile Data Terminal		
Model Name	C71		
Brand Name	CHAINWAY		
HW Version	C70SE_MB_V11		
SW Version	V1.0_60006735_20170424		
Test Standards	EN 50360: 2001+A1: 2012; EN 50566: 2013/AC: 2014; EN 62209-1: 2016;EN 62209-2: 2010; EN 62479: 2010		
Test Date	2017-09-06 to 2017-09-08		
Max Scaled SAR-10g(W/Kg)	Head	0.219W/kg	Limit(W/kg): 2.0W/kg
	Body	1.216W/kg	

Tested by : Peng Fuwei
Peng Fuwei (Test engineer)

Approved by : Peng Huarui
Peng Huarui (Supervisor)



1. TECHNICAL INFORMATION

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

1.1 Identification of Manufacturer

Company Name:	Shenzhen Chainway Information Technology Co.,Ltd.
Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen

1.2 Identification of Factory

Company Name:	Shenzhen Chainway Information Technology Co.,Ltd.
Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen

1.3 Equipment Under Test (EUT)

Model Name:	C71
Trade Name:	CHAINWAY
Brand Name:	CHAINWAY
Hardware Version:	C70SE_MB_V11
Software Version:	V1.0_60006735_20170424
Frequency Bands:	GSM850MHz/900MHz/1800MHz/1900MHz; WCDMA Band I/ WCDMA Band II/ WCDMA Band V/ WCDMA Band VIII; FDD-LTE Band 1/3/5/7/8/20/40; 802.11 b/g/n20/n40/a: 2412-2462 MHz;5.15-5.85GHz Bluetooth 2.1+EDR;Bluetooth 4.0;
Modulation Mode:	GSM/GPRS: GMSK; EDGE: 8PSK; WCDMA: QPSK; HSPA/HSPA+: QPSK/16QAM; FDD-LTE Band 1/3/5/7/8/20/40:QPSK/16QAM; WIFI : 802.11b: DSSS, 802.11 a/g/n-20/n-40: OFDM Bluetooth:2.1+EDR;GFSK/ π /4-DQPSK/8-DPSK; Bluetooth4.0: GFSK;
Multi-slot Class	GPRS: Multi-slot Class 12; EDGE: Multi-slot Class 12;
Operation mode:	Class B
Antenna type:	PIFA Antenna
Battery Model:	886061
Battery specification:	5000mAh 3.8V
SIM cards description	For dual SIM card version, SIM 1 and SIM 2 are the same chipset unit and tested as a single chipset, the SIM 1 is chosen for test.

**1.4SUMMARY OF MAXIMUM SAR VALUE**

Mode/Band	Test Position	Measurement SAR-10g(W/kg)	Scaled SAR-10g(W/Kg)	Plot
GSM850	Head	0.097	0.099	1#
	Body(5mm Gap)	0.193	0.234	5#
GSM900	Head	0.037	0.040	9#
	Body(5mm Gap)	0.114	0.118	26#
GSM1800	Head	0.030	0.033	13#
	Body(5mm Gap)	0.450	0.500	29#
GSM1900	Head	0.040	0.042	38#
	Body(5mm Gap)	0.456	0.523	27#
WCDMA Band I	Head	0.026	0.029	31#
	Body(5mm Gap)	0.706	0.783	35#
WCDMA Band II	Head	0.061	0.070	37#
	Body(5mm Gap)	0.381	0.439	41#
WCDMA Band V	Head	0.012	0.014	43#
	Body(5mm Gap)	0.301	0.343	47#
WCDMA Band VIII	Head	0.028	0.029	93#
	Body(5mm Gap)	0.048	0.050	96#
FDD-LTE Band 1	Head	0.043	0.046	51#
	Body(5mm Gap)	0.407	0.434	53#
FDD-LTE Band 3	Head	0.035	0.040	55#
	Body(5mm Gap)	0.311	0.357	59#
FDD-LTE Band 5	Head	0.066	0.070	63#
	Body(5mm Gap)	0.148	0.156	66#
FDD-LTE Band 7	Head	0.164	0.219	69#
	Body(5mm Gap)	0.911	1.216	71#
FDD-LTE Band 8	Head	0.043	0.047	75#
	Body(5mm Gap)	0.071	0.077	78#
FDD-LTE Band 20	Head	0.069	0.080	81#
	Body(5mm Gap)	0.116	0.135	83#
FDD-LTE Band 40	Head	0.043	0.044	87#
	Body(5mm Gap)	0.293	0.303	89#
WLAN 2.4GHz	Head	0.021	0.022	99#
	Body(5mm Gap)	0.141	0.148	101#



Note:

1. Since the Bluetooth maximum power is less than 20mW, according to EN62479, Bluetooth stand-alone SAR is not required.

1.4.1 Photographs of the EUT

Please refer the report Annex A photographs about the EUT.

1.4.2 Identification of all used EUTs

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

EUT Identity	Hardware Version	Software Version
1#	C70SE_MB_V11	V1.0_60006735_20170424

1.5 Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	EN 50360: 2001+A1:2012	Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300MHz-3 GHz)
2	EN 50566: 2013/AC:2014	Product standard to demonstrate compliance of radio frequency fields from handheld and body-mounted wireless communication devices used by the general public (30 MHz - 6 GHz)
3	EN 62209-1: 2016	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)
4	EN 62209-2: 2010	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures –Part 2: Procedure to determine the Specific Absorption Rate (SAR) in the head and body for 30MHz to 6GHz Handheld and Body-Mounted Devices used in close proximity to the body



No.	Identity	Document Title
5	EN 62479: 2010	Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields(10MHz to 300GHz)

1.6 Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 2.0 W/kg as averaged over any 10 gram of tissue.

1.7 Test Environment/Conditions

Normal Temperature (NT):	20 ... 25 °C
Relative Humidity:	30 ... 75 %
Air Pressure:	980 ... 1020 hPa
Test frequency:	GSM 850MHz /900MHz/1800MHz/2000MHz; WCDMA Band I/II/V/VIII; FDD-LTE Band 1/3/5/7/8/20/40; Wi-Fi 2.4GHz/5GHz;
Operation mode:	Call established
Power Level:	GSM 850 MHz/900 MHz Maximum output power(level 5) GSM 1800MHz/1900MHz Maximum output power(level 0) WCDMA Band I/II/V/VIII; (All Up Bits) FDD-LTE Band 1/3/5/7/8/20/40;(Maximum output power) Wi-Fi 802.11b (2.4GHz) (Maximum output power). Wi-Fi 802.11a (5GHz) (Maximum output power).

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 EUT shall use its internal transmitter. The antenna(s), battery and accessories shall be those specified by the Factory. 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.

For SAR testing, EUT is in GPRS mode. In GPRS link mode, its crest factor is 2, because EUT is set in GPRS multi-slot class 12 with 4 uplink slots. In WCDMA and WI-FI mode, its crest factor is 1.

2. SPECIFIC ABSORPTION RATE (SAR)

2.1 Introduction

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

2.2 SAR Definition

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

(p). The equation description is as below:

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

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

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

$$SAR = c \left(\frac{\delta T}{\delta t} \right)$$

Where c is the specific head capacity, δT is the temperature rise and δt the exposure duration,

or related to the electrical field in the tissue by

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

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

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

3. SAR MEASUREMENT SETUP

3.1 The Measurement System

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

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

The following figure shows the system.



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

3.2 Probe

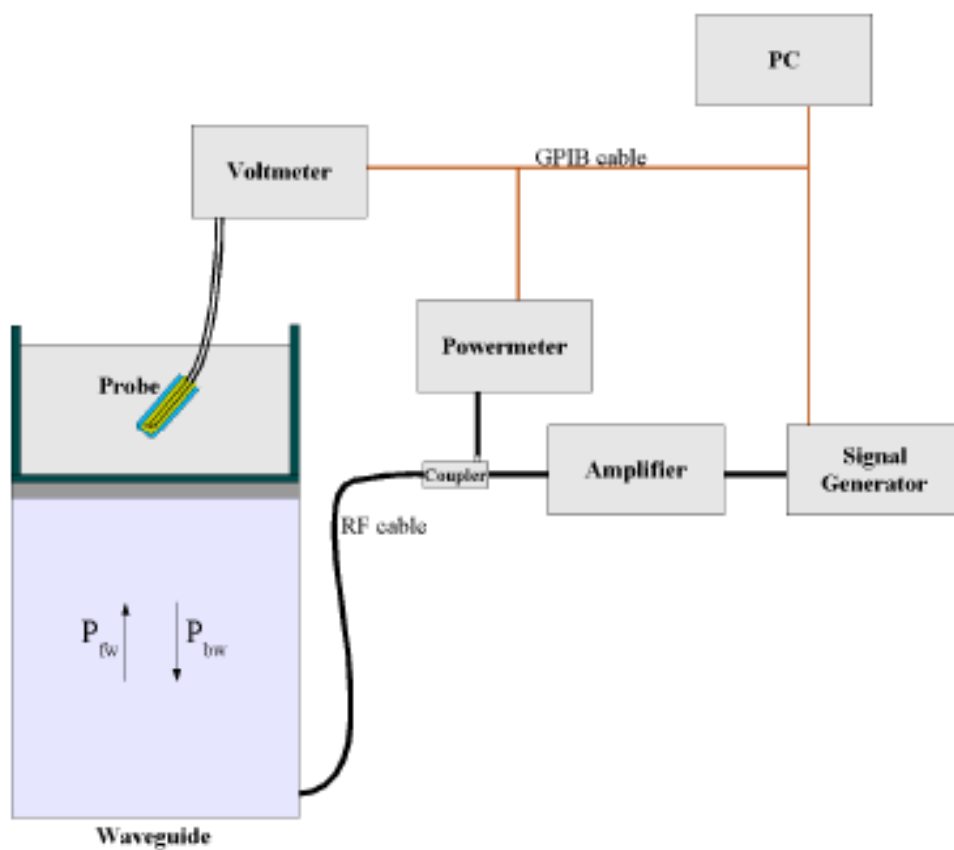
For the measurements the Specific Dosimetric E-Field Probe SN 37/08 EP80 with following specifications is used

- Dynamic range: 0.01-100 W/kg

- Tip Diameter : 6.5 mm
- Distance between probe tip and sensor center: 2.5mm
- Distance between sensor center and the inner phantom surface: 4 mm
(repeatability better than +/- 1mm)
- Probe linearity: <0.25 dB
- Axial Isotropy: <0.25 dB
- Spherical Isotropy: <0.25 dB
- Calibration range: 835 to 2500MHz for head & body simulating liquid.

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

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



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

Where :

Pfw = Forward Power



Pbw = Backward Power

a and b = Waveguide dimensions

l = Skin depth

Keithley configuration:

Rate = Medium; Filter =ON; RDGS=10; FILTER TYPE =MOVING AVERAGE; RANGE AUTO

After each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.

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

$$CF(N)=SAR(N)/V_{lin}(N) \quad (N=1,2,3)$$

The linearised output voltage $V_{lin}(N)$ is obtained from the displayed output voltage $V(N)$ using

$$V_{lin}(N)=V(N)*(1+V(N)/DCP(N)) \quad (N=1,2,3)$$

where DCP is the diode compression point in mV.

3.3 Probe Calibration Process

3.3.1 Dosimetric Assessment Procedure

Each E-Probe/Probe Amplifier combination has unique calibration parameters. SATIMO Probe calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm²) using an with CALISAR, Antenna proprietary calibration system.

3.3.2 Free Space Assessment Procedure

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1 mW/cm².

3.3.3 Temperature Assessment Procedure

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulating head tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

Where:

δt = exposure time (30 seconds),

$$SAR = C \left(\frac{\delta T}{\delta t} \right)$$

C = heat capacity of tissue (brain or muscle),

δT = temperature increase due to RF exposure.

SAR is proportional to $\Delta T/\Delta t$, the initial rate of tissue heating, before thermal diffusion takes place. The electric field in the simulated tissue can be used to estimate SAR by equating the thermally derived SAR to that with the E- field component.

Where:

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

σ = simulated tissue conductivity,

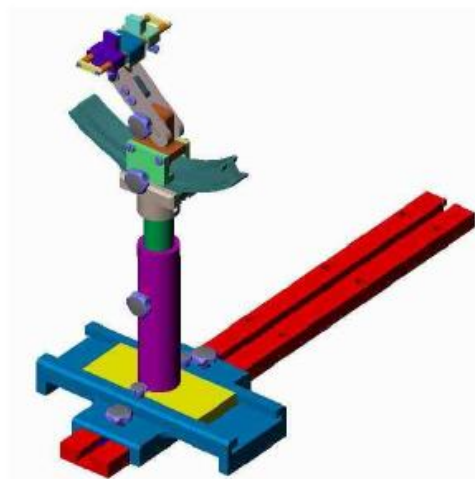
ρ = Tissue density (1.25 g/cm³ for brain tissue)

3.4 Phantom

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

3.5 Device Holder

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



Device holder

System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

4. TISSUE SIMULATING LIQUIDS

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in below table.

The following table gives the recipes for tissue simulating liquids

Ingredients (% by weight)	Frequency Band	Frequency Band	Frequency Band	Frequency Band	Frequency Band
	900MHz	1800MHz	2000MHz	2450MHz	5200-5800 MHz
Deionised Water	50.31	52.64	54.90	62.70	65.53
Salt(NaCl)	1.35	0.36	0.18	0.50	0.00
Sugar	0.00	0.00	0.00	0.00	0.00
Tween 20	48.34	0.00	0.00	0.00	0.00
HEC	0.00	0.00	0.00	0.00	0.00
Bactericide	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	36.80	17.24
DGBE	0.00	47.00	44.92	0.00	0.00
Diethyleneglycol monohexylether	0.00	0.00	0.00	0.00	17.24
Dielectric Constant	41.00	40.10	39.90	39.20	35.3
Conductivity (S/m)	0.98	1.37	1.42	1.80	5.07

Recipes for Tissue Simulating Liquid

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



Table 1: Dielectric Performance of Human Tissue Simulating Liquid

Temperature: 23.0~23.8°C, humidity: 54~60%.			
/	Frequency	Permittivity ϵ	Conductivity σ (S/m)
Target value	900 MHZ	41.00	0.98
Validation value (Sept. 06)	900 MHZ	41.182291	0.991718
Target value	1800 MHZ	40.00	1.40
Validation value (Sept. 06)	1800 MHZ	40.095167	1.365073
Target value	2000 MHZ	40.00	1.40
Validation value (Sept. 06)	2000 MHZ	39.996477	1.414283
Target value	2450MHz	39.20	1.80
Validation value (Sept. 06)	2450MHz	39.284446	1.836061
Target value	2600MHz	39.0	1.96
Validation value (Sept. 06)	2600MHz	39.024564	1.975236
Target value	5200 MHZ	36.0	4.66
Validation value (Sept. 06)	5200 MHZ	36.12396	4.674562
Target value	5600 MHZ	35.5	5.07
Validation value (Sept. 06)	5600 MHZ	35.56713	5.101271
Target value	5800 MHZ	35.3	5.27
Validation value (Sept. 06)	5800 MHZ	35.33021	5.310865

Note: For frequency bands not used in Europe, parameters of the tissue equivalent liquid refer to EN 62209-1:2016.



5. UNCERTAINTY ASSESSMENT

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

5.1 UNCERTAINTY EVALUATION FOR HANDSET SAR TEST

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol (+-%)	Prob . Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System									
Probe calibration	E.2.1	5.83	N	1	1	1	5.83	5.83	∞
Axial Isotropy	E.2.2	3.5	R	$\sqrt{3}$	1	1	2.02	2.02	∞
Hemispherical Isotropy	E.2.2	5.9	R	$\sqrt{3}$	1	1	3.41	3.41	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.5	N	1	1	1	0.5	0.5	∞
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	3.0	3.0	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to Phantom Shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5.2	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Test sample Related									
Test sample positioning	E.4.2. 1	2.6	N	1	1	1	2.6	2.6	N-1
Device Holder Uncertainty	E.4.1. 1	3.0	N	1	1	1	3.0	3.0	N-1
Output power Power drift - SAR drift measurement	6.6.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞



Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	4.0	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Liquid conductivity - deviation from target value	E.3.2	2.0	R	$\sqrt{3}$	0.6 4	0.43	1.69	1.13	∞
Liquid conductivity - measurement uncertainty	E.3.3	2.5	N	1	0.6 4	0.43	3.20	2.15	M
Liquid permittivity - deviation from target value	E.3.2	2.5	R	$\sqrt{3}$	0.6	0.49	1.28	1.04	∞
Liquid permittivity - measurement uncertainty	E.3.3	5.0	N	1	0.6	0.49	6.00	4.90	M
Liquid conductivity -temperature uncertainty	E.3.4		R	$\sqrt{3}$	0.7 8	0.41			∞
Liquid permittivity -temperature uncertainty	E.3.4		R	$\sqrt{3}$	0.2 3	0.26			∞
Combined Standard Uncertainty			RSS				11.55	12.0 7	
Expanded Uncertainty (95% Confidence interval)			K=2				\pm 23.20	\pm 24.17	

5.2 UNCERTAINTY FOR SYSTEM PERFORMANCE CHECK

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	4.76	N	1	1	1	4.76	4.7	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	1	1	1.44	1.4	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	1	1	2.31	2.3	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.5	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.8	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.5	∞

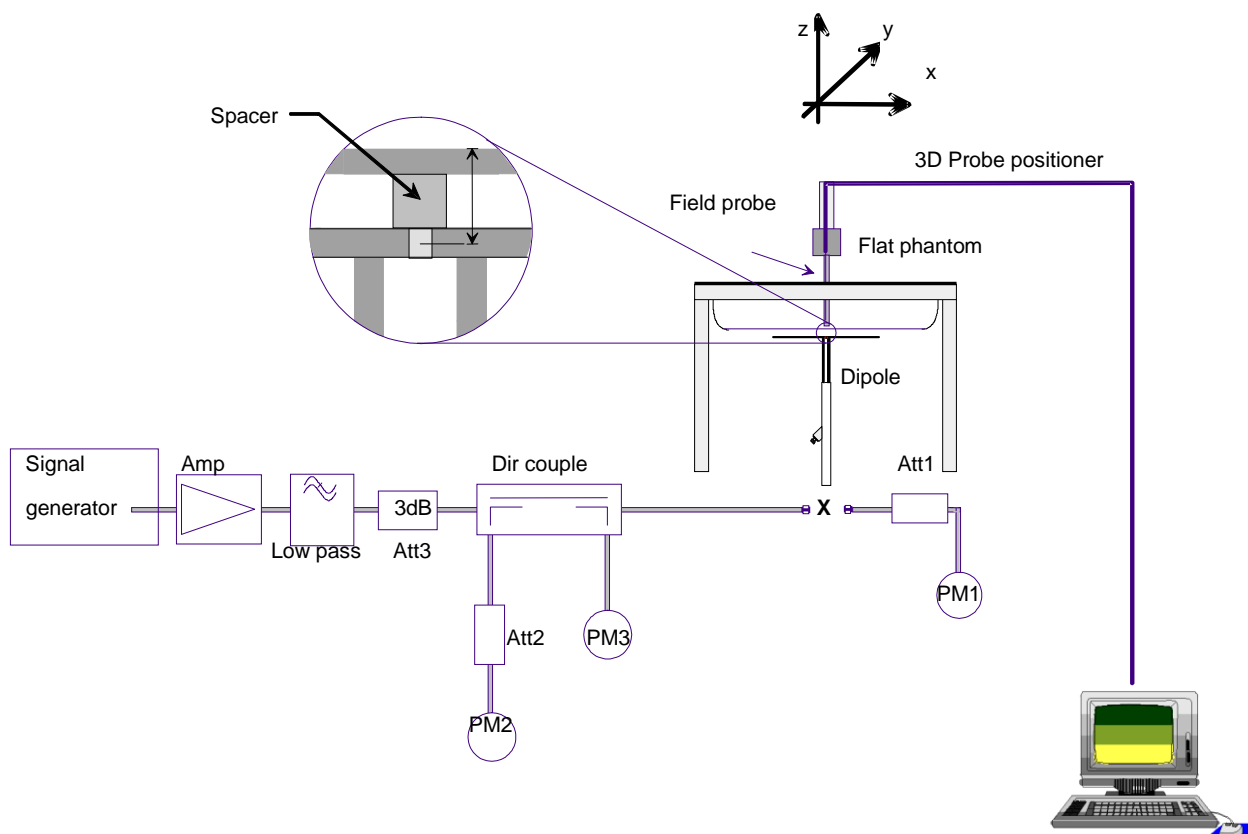


Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.0	∞
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.7	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.1	∞
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.7	∞
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.1 5	∞
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.0 3	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.8 9	∞
Dipole									
Dipole axis to liquid Distance	8,E.4. 2	1.00	N	$\sqrt{3}$	1	1	0.58	0.5 8	∞
Input power and SAR drift measurement	8,6.6. 2	4.04	R	$\sqrt{3}$	1	1	2.33	2.3 3	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.0 3	∞
Liquid conductivity - deviation from target value	E.3.2	4.57	R	$\sqrt{3}$	0.64	0.43	1.69	1.1 3	∞
Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	$\sqrt{3}$	0.64	0.43	1.85	1.2 4	M
Liquid permittivity - deviation from target value	E.3.2	3.69	R	$\sqrt{3}$	0.6	0.49	1.28	1.0 4	∞
Liquid permittivity - measurement uncertainty	E.3.3	10.0 0	N	$\sqrt{3}$	0.6	0.49	3.46	2.8 3	M
Combined Standard Uncertainty			RSS				8.83	8.3 7	
Expanded Uncertainty (95% Confidence interval)			K=2				17.66	16. 73	

6. SAR MEASUREMENT EVALUATION

6.1 System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The system check verifies that the system operates within its specifications. It is performed daily or before every SAR measurement. The system check uses normal SAR measurements in the flat section of the phantom with a matched dipole at a specified distance. The system verification setup is shown as below.



The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The power meter PM1 measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power at the dipole connector and the power meter PM2 is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter PM2.



6.2 Validation Results

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

Frequency	900MHz	1800MHz	2000MHz	2450MHz	2600MHz	5200MHz
Target value(10g)	6.73 W/Kg	19.85 W/Kg	21.40 W/Kg	24.22 W/Kg	25.06 W/Kg	164.05 W/Kg
100 mW input power	0.722 W/Kg	2.048 W/Kg	1.993 W/Kg	2.377 W/Kg	2.498 W/Kg	16.42 W/Kg
Normalized to 1W value (10g)	7.22 W/Kg	20.48 W/Kg	19.93 W/Kg	23.77 W/Kg	24.98 W/Kg	164.2 W/Kg

Note: System checks the specific test data please see the Annex C.

7. OPERATIONAL CONDITIONS DURING TEST

7.1 Information on the testing

The mobile phone antenna and battery are those specified by the Factory. 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.

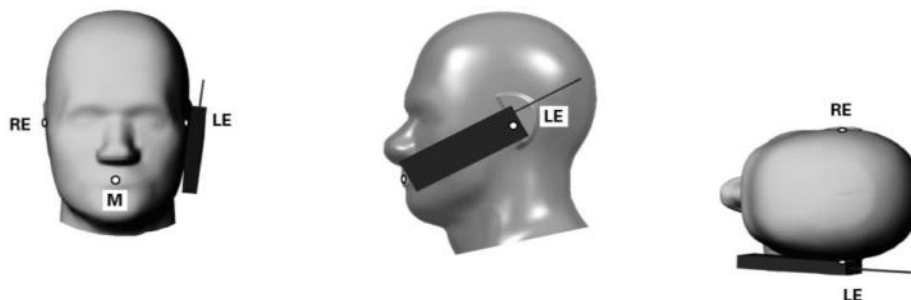


Illustration for Cheek Position

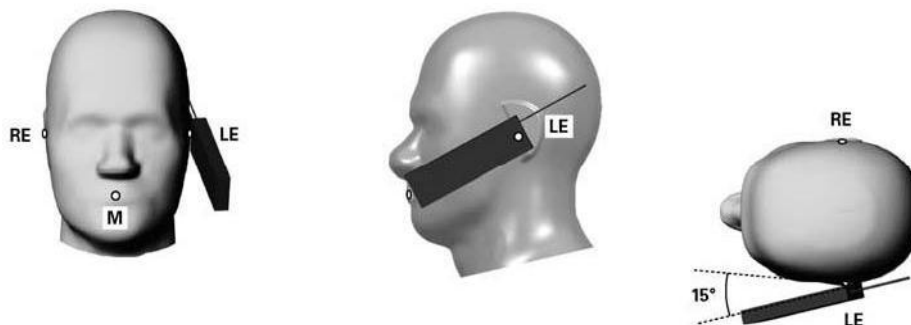


Illustration for Tilted Position

Description of the “cheek” position:

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

Description of the “tilted” position:

The mobile phone is well placed in the “cheek” position as described above. Then the mobile

phone is moved outward away from the mouth by an angle of 15 degrees or until contact with the ear lost.

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

7.2 Body-worn Configurations

The body-worn configurations shall be tested with the supplied accessories (belt-clips, holsters, etc.) attached to the device in normal use configuration. The depth of the body tissue was 15.1 cm.

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

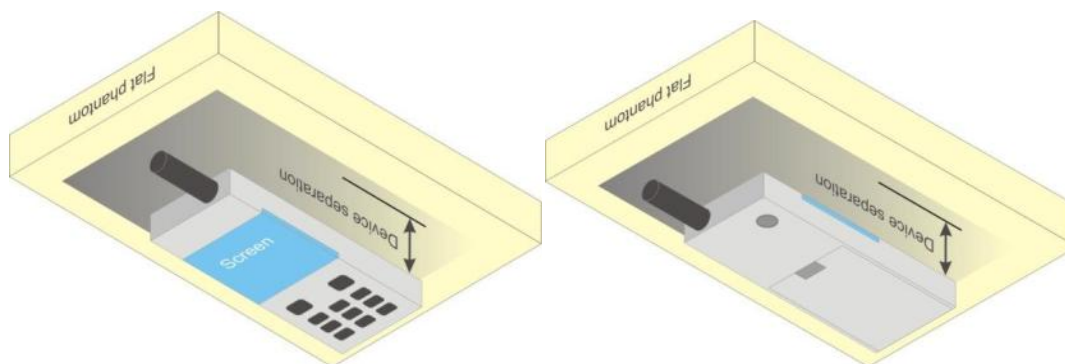


Illustration for Body Worn Position

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. The distance between of the device and the phantom was kept 5mm.

The separation distance 5mm is selected according to the user guide statement as below:

“It complies with the rules on exposure to radio frequencies when used in its normal position at the ear or at a minimum distance of 0.5 cm from the body.

Be sure to follow the instructions regarding the separation distance for establishing the transmission. If you use a case, belt-clip or holder for carrying the phone, it must not contain any metal and should be kept at a minimum distance of 0.5 cm from your body.”

The intended use of the DUT for body worn position is to carry the mobile phone on human body by non-metallic accessories and the typical use of this method will provide a face up and face down position to human body. The separation distance is clearly stated in the user guide as important information to the user. Therefore the separation distance 5mm and face up/face down positions are selected for this DUT.

7.3 Measurement procedure

The following steps are used for each test position

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

7.4 Description of interpolation/extrapolation scheme

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

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1mm step.

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

8. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

1. GSM Conducted peak output power

Band	Channel	Frequency (MHz)	Output Power
			(dBm)
GSM 850	130	824.6	33.32
	190	836.6	33.43
	249	848.4	33.48
GSM 900	975	880.2	33.52
	38	897.6	33.69
	124	914.8	33.67
DCS 1800	512	1710.2	29.43
	698	1747.4	29.61
	885	1785.0	29.52
PCS 1900	512	1850.2	29.18
	661	1880.0	29.28
	810	1909.8	29.47

2. GPRS Mode

Band	Channel	Frequency (MHz)	Output Power(dBm)			
			Slot 1	Slot 2	Slot 3	Slot 4
GSM 850	130	824.6	32.88	31.96	29.99	29.01
	190	836.6	33.00	32.19	30.21	29.15
	249	848.4	33.21	32.67	30.42	29.46
GSM 900	975	880.2	33.12	32.84	30.73	29.71
	38	897.6	33.27	32.88	30.66	29.78
	124	914.8	33.16	32.90	30.56	29.46
DCS 1800	512	1710.2	29.36	28.78	27.89	27.07
	698	1747.4	29.48	29.25	27.97	27.05
	885	1785.0	29.28	29.26	27.93	27.14
PCS 1900	512	1850.2	29.13	28.92	27.33	26.42
	661	1880.0	29.23	29.02	27.42	26.41
	810	1909.8	29.37	28.93	27.86	26.80



GPRS Mode Time-based Average Power

Band	Channel	Frequency (MHz)	Output Power(dBm)			
			Slot 1	Slot 2	Slot 3	Slot 4
GSM 850	130	824.2	23.85	25.94	25.73	26.00
	190	836.6	23.97	26.17	25.95	26.14
	251	848.8	24.18	26.65	26.16	26.45
GSM 900	975	880.2	24.09	26.82	26.47	26.70
	38	897.6	24.24	26.86	26.40	26.77
	124	914.8	24.13	26.88	26.30	26.45
DCS 1800	512	1710.0	20.33	22.76	23.63	24.06
	698	1747.4	20.45	23.23	23.71	24.04
	885	1785.0	20.25	23.24	23.67	24.13
PCS 1900	512	1850.2	20.10	22.90	23.07	23.41
	661	1880.0	20.20	23.00	23.16	23.40
	810	1909.8	20.34	22.91	23.60	23.79

3. EGPRS Mode

Band	Channel	Frequency (MHz)	Output Power(dBm)			
			Slot 1	Slot 2	Slot 3	Slot 4
GSM 850	130	824.6	27.06	26.93	26.94	24.96
	190	836.6	27.14	26.45	25.27	24.27
	249	848.4	26.99	26.37	24.92	24.41
GSM 900	975	880.2	27.29	26.92	25.33	24.95
	38	897.6	27.21	26.35	25.25	24.50
	124	914.8	27.22	26.49	25.24	24.27
DCS 1800	512	1710.2	26.30	25.65	24.10	23.17
	698	1747.4	26.80	25.91	24.32	23.27
	885	1785.0	26.52	25.99	24.62	23.37
PCS 1900	512	1850.2	26.06	25.02	22.80	22.07
	661	1880.0	26.02	25.27	23.18	22.26
	810	1909.8	26.16	25.07	23.09	22.10



EGPRS Mode Time-based Average Power

Band	Channel	Frequency (MHz)	Output Power(dBm)			
			Slot 1	Slot 2	Slot 3	Slot 4
GSM 850	130	824.2	18.03	20.91	22.68	21.95
	190	836.6	18.11	20.43	21.01	21.26
	251	848.8	17.96	20.35	20.66	21.40
GSM 900	975	880.2	18.26	20.90	21.07	21.94
	38	897.6	18.18	20.33	20.99	21.49
	124	914.8	18.19	20.47	20.98	21.26
DCS 1800	512	1710.0	17.27	19.63	19.84	20.16
	698	1747.4	17.77	19.89	20.06	20.26
	885	1785.0	17.49	19.97	20.36	20.36
PCS 1900	512	1850.2	17.03	19.00	18.54	19.06
	661	1880.0	16.99	19.25	18.92	19.25
	810	1909.8	17.13	19.05	18.83	19.09

Timeslot consignations:

No. Of Slots	Slot 1	Slot 2	Slot 3	Slot 4
Slot Consignation	1Up4Down	2Up3Down	3Up2Down	4Up1Down
Duty Cycle	1:8	1:4	1:2.67	1:2
Correct Factor	-9.03dB	-6.02dB	-4.26dB	-3.01dB

4. Bluetooth Average output power

Band	Channel	Output Power(dBm)		
		GFSK	$\pi/4$ -DQPSK	8-DPSK
BT 2.1+EDR	Hopping Channel	5.67	2.38	2.52

Band	Channel	Frequency (MHz)	Output Power(dBm)
			GFSK
BT4.0	0	2402	-3.09
	19	2440	-2.83
	39	2480	-3.72

5. Wi-Fi Average output power

Band	Channel	Frequency (MHz)	Output Power(dBm)		
			802.11b (DSSS)	802.11g (OFDM)	802.11n20 (OFDM)
Wi-Fi 2.4G	1	2412	12.63	9.01	9.18
	7	2442	14.11	12.14	12.01
	13	2472	13.27	9.16	9.14

Band	Channel	Frequency (MHz)	Output Power(dBm)
			802.11n40 (OFDM)
WiFi-2.4G	3	2422	10.75
	7	2442	11.29
	11	2462	10.53

Band	Channel	Frequency (MHz)	Output Power(dBm)
			802.11a (DSSS)
5G Wi-Fi	36	5180	12.30
	44	5320	9.97
	48	5500	9.83
	140	5720	10.87

Band	Channel	Frequency (MHz)	Output Power(dBm)
			802.11n40 (GFSK)
5G Wi-Fi	38	5190	13.98
	62	5310	12.90
	102	5510	11.32
	151	5710	12.35

6. SRD Average output power

Band	Channel	Frequency (MHz)	Output Power(dBm)
			SRD 5.8G (OFDM)ac20
SRD	149	5745	10.88
	161	5805	10.25
	165	5825	11.61
			SRD 5.8G (OFDM)ac40
	151	5755	11.01
	159	5795	11.00



7. WCDMA Average output power

Item	band	WCDMA 900			WCDMA 2100		
	ARFCN	2712	2787	2863	9612	9750	9888
	subtest	dBm			dBm		
5.2(WCDMA)	non	22.90	22.85	22.89	23.38	23.05	23.28
HSDPA	1	21.83	21.83	21.84	22.67	22.46	22.53
	2	21.8	21.89	21.82	22.68	22.47	22.48
	3	21.34	21.4	21.39	22.23	22.01	22.02
	4	21.36	21.37	21.36	22.17	21.99	22.00
HSUPA	1	19.80	19.83	19.89	20.70	20.36	20.41
	2	19.78	19.86	19.87	20.65	20.36	20.41
	3	20.85	20.91	20.91	21.65	21.4	21.42
	4	19.24	19.31	19.34	20.07	19.85	19.90
	5	21.82	21.83	21.85	22.59	22.36	22.42
HSPA+	1	21.13	21.18	21.17	21.46	21.30	21.33

Item	band	WCDMA 850			WCDMA 1900		
	ARFCN	4132	4182	4233	9262	9400	9538
	subtest	dBm			dBm		
5.2(WCDMA)	non	22.74	22.43	22.65	23.52	23.39	23.29
HSDPA	1	21.65	21.63	21.80	22.32	22.24	22.37
	2	21.66	21.62	21.79	22.30	22.28	22.35
	3	21.24	21.17	21.33	21.83	21.80	21.90
	4	21.21	21.13	21.31	21.84	21.77	21.88
HSUPA	1	19.75	19.60	19.80	20.32	20.21	20.24
	2	19.65	19.58	19.75	20.22	20.13	20.24
	3	20.72	20.62	20.81	21.22	21.16	21.27
	4	19.12	19.13	19.21	19.75	19.69	19.72
	5	21.70	21.66	21.77	22.18	22.12	22.24
HSPA+	1	20.99	20.88	20.98	21.31	21.23	21.29



8. LTE Average output power

LTE Band 1 QPSK				
Bandwidth (MHz)	RB	Channel	Frequency(MHz)	Output power (dBm)
5MHz	12RB	18025	1922.5	22.366
		18300	1950.0	22.421
		18575	1977.5	22.086
10MHz	25RB	18050	1925.0	22.089
		18300	1950.0	22.435
		18550	1972.5	22.418
15MHz	36RB	18075	1927.5	22.404
		18300	1950.0	22.366
		18525	1972.5	22.421
20MHz	1RB-High	18100	1930.0	22.162
		18300	1950.0	22.221
		18500	1970.0	22.089
	1RB-Low	18100	1930.0	22.398
		18300	1950.0	22.215
		18500	1970.0	22.404
	50RB	18100	1930.0	22.435
		18300	1950.0	22.418
		18500	1970.0	22.489
LTE Band 3 QPSK				
Bandwidth (MHz)	RB	Channel	Frequency(MHz)	Output power (dBm)
1.4MHz	3RB	19207	1710.7	22.045
		19575	1747.5	22.672
		19443	1784.3	22.281
3MHz	8RB	19215	1711.5	22.396
		19575	1747.5	22.462
		19935	1783.5	22.325
5MHz	12RB	19225	1712.5	22.138
		19575	1747.5	22.045
		19925	1782.5	22.471
10MHz	25RB	19250	1715.0	22.175
		19575	1747.5	22.107
		19900	1780.0	22.266



15MHz	36RB	19275	1717.5	21.830
		19575	1747.5	22.148
		19875	1777.5	22.333
20MHz	1RB-High	19300	1720.0	22.266
		19575	1747.5	22.396
		19850	1775.0	22.650
	1RB-Low	19300	1720.0	22.107
		19575	1747.5	22.266
		19850	1775.0	22.396
	50RB	19300	1720.0	22.045
		19575	1747.5	22.471
		19850	1775.0	22.650
LTE Band 5 QPSK				
Bandwidth (MHz)	RB	Channel	Frequency(MHz)	Output power (dBm)
1.4MHz	3RB	20450	829	21.823
		20525	836.5	22.073
		20600	844	22.229
3MHz	8RB	20450	829	22.339
		20525	836.5	21.876
		20600	844	22.012
5MHz	12RB	20450	829	22.229
		20525	836.5	22.398
		20600	844	22.173
10MHz	25RB	20450	829	22.442
		20525	836.5	22.258
		20600	844	22.088
LTE Band 7 QPSK				
Bandwidth (MHz)	RB	Channel	Frequency(MHz)	Output power (dBm)
5MHz	12RB	20850	2510	23.191
		21100	2535	22.832
		21350	2560	23.635
10MHz	25RB	20850	2510	22.562
		21100	2535	22.269
		21350	2560	22.350
15MHz	36RB	20850	2510	22.013
		21100	2535	22.340
		21350	2560	22.160



20MHz	1RB-High	20850	2510	22.650
		21100	2535	22.746
		21350	2560	23.635
	1RB-Low	20850	2510	22.210
		21100	2535	21.934
		21350	2560	22.036
	50RB	20850	2510	23.078
		21100	2535	23.192
		21350	2560	22.460
LTE Band 8 QPSK				
Bandwidth (MHz)	RB	Channel	Frequency(MHz)	Output power (dBm)
1.4MHz	3RB	21500	885	22.279
		21625	897.5	22.599
		21750	910	22.678
3MHz	8RB	21500	885	22.265
		21625	897.5	22.297
		21750	910	22.529
5MHz	12RB	21500	885	22.722
		21625	897.5	22.572
		21750	910	22.398
10MHz	25RB	21500	885	22.431
		21625	897.5	22.622
		21750	910	22.476
LTE Band 20 QPSK				
Bandwidth (MHz)	RB	Channel	Frequency(MHz)	Output power (dBm)
5MHz	12RB	24250	842	22.495
		24300	847	22.345
		24350	852	22.572
10MHz	25RB	24250	842	22.396
		24300	847	22.697
		24350	852	22.287
15MHz	36RB	24250	842	22.128
		24300	847	22.465
		24350	852	22.31
	1RB-High	24250	842	22.286
		24300	847	22.345
		24350	852	22.697



20MHz	1RB-Low	24250	842	22.568
		24300	847	22.372
		24350	852	22.552
	50RB	24250	842	22.219
		24300	847	22.371
		24350	852	22.254
LTE Band 40 QPSK				
Bandwidth (MHz)	RB	Channel	Frequency(MHz)	Output power (dBm)
5MHz	12RB	38750	834.5	22.293
		39150	847.0	22.560
		39550	859.5	22.786
10MHz	25RB	38750	837.0	22.92
		39150	847.0	21.994
		39550	857.0	22.374
15MHz	36RB	38750	842.0	21.368
		39150	847.0	22.680
		39550	852.0	21.810
20MHz	1RB-High	38750	842.0	22.599
		39150	847.0	23.359
		39550	852.0	21.323
	1RB-Low	38750	842.0	22.529
		39150	847.0	23.301
		39550	852.0	21.608
	50RB	38750	842.0	22.382
		39150	847.0	23.168
		39550	852.0	21.172

Note:

All of Band max output power of 16 QAM is low than QPSK, so 16QAM is not required for test.



9. TEST RESULTS LIST

Summary of Measurement Results (GSM 850MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations		Device Test Positions	Device Test channel	SAR(W/Kg), 10g Peak	Scaled SAR (W/Kg), 10g
Right Side Of Head		Cheek/Touch	190	0.097	0.099
		Ear/Tilt		0.066	0.067
Left Side Of Head		Cheek/Touch		0.087	0.088
		Ear/Tilt		0.079	0.080
Body (5mm Separation)	GSM	Back upward		0.136	0.138
		Front upward		0.123	0.125
	GPRS	Back upward		0.193	0.234
		Front upward		0.157	0.190
	EGPRS	Back upward		0.042	0.051

Summary of Measurement Results (GSM 900MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations		Device Test Positions	Device Test channel	SAR(W/Kg), 10g Peak	Scaled SAR (W/Kg), 10g
Right Side Of Head		Cheek/Touch	38	0.032	0.034
		Ear/Tilt		0.017	0.018
Left Side Of Head		Cheek/Touch		0.037	0.040
		Ear/Tilt		0.012	0.013
Body (5mm Separation)	GSM	Back upward		0.107	0.115
		Front upward		0.085	0.091
	GPRS	Back upward		0.114	0.118
		Front upward		0.067	0.069
	EGPRS	Back upward		0.032	0.033



Summary of Measurement Results (GSM 1800MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations		Device Test Positions	Device Test channel	SAR(W/Kg), 10g Peak	Scaled SAR (W/Kg), 10g
Right Side Of Head		Cheek/Touch	698	0.030	0.033
		Ear/Tilt		0.011	0.012
Left Side Of Head		Cheek/Touch		0.022	0.024
		Ear/Tilt		0.012	0.013
Body (5mm Separation)	GSM	Back upward		0.257	0.281
		Front upward		0.064	0.070
	GPRS	Back upward		0.450	0.500
		Front upward		0.114	0.127
	EGPRS	Back upward		0.103	0.115

Summary of Measurement Results (GSM 1900MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations		Device Test Positions	Device Test channel	SAR(W/Kg), 10g Peak	Scaled SAR (W/Kg), 10g
Right Side Of Head		Cheek/Touch	661	0.025	0.026
		Ear/Tilt		0.029	0.031
Left Side Of Head		Cheek/Touch		0.040	0.042
		Ear/Tilt		0.017	0.018
Body (5mm Separation)	GSM	Back upward		0.287	0.302
		Front upward		0.057	0.060
	GPRS	Back upward		0.456	0.523
		Front upward		0.103	0.118
	EGPRS	Back upward		0.061	0.070



Summary of Measurement Results (WCDMA 850MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations	Device Test Positions	Device Test channel	SAR(W/Kg), 10g Peak	Scaling Factor	Scaled SAR (W/Kg), 10g
Right Side Of Head	Cheek/Touch	4183	0.012	1.140	0.014
	Ear/Tilt		0.004		0.005
	Cheek/Touch		0.005		0.006
	Ear/Tilt		0.004		0.005
Body (5mm Separation)	Back upward		0.301		0.343
	Front upward		0.009		0.010

Summary of Measurement Results (WCDMA 900MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations	Device Test Positions	Device Test channel	SAR(W/Kg), 10g Peak	Scaling Factor	Scaled SAR (W/Kg), 10g
Right Side Of Head	Cheek/Touch	2787	0.021	1.035	0.022
	Ear/Tilt		0.016		0.017
Left Side Of Head	Cheek/Touch		0.028		0.029
	Ear/Tilt		0.015		0.016
Body (5mm Separation)	Back upward		0.030		0.031
	Front upward		0.048		0.050



Summary of Measurement Results (WCDMA 1900MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations	Device Test Positions	Device Test channel	SAR(W/Kg), 10g Peak	Scaling Factor	Scaled SAR (W/Kg), 10g
Right Side Of Head	Cheek/Touch	9400	0.061	1.151	0.070
	Ear/Tilt		0.040		0.046
Left Side Of Head	Cheek/Touch		0.080		0.092
	Ear/Tilt		0.029		0.033
Body (5mm Separation)	Back upward		0.381		0.439
	Front upward		0.015		0.017

Summary of Measurement Results (WCDMA 2100MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations	Device Test Positions	Device Test channel	SAR(W/Kg), 10g Peak	Scaling Factor	Scaled SAR (W/Kg), 10g
Right Side Of Head	Cheek/Touch	9750	0.026	1.109	0.029
	Ear/Tilt		0.015		0.017
Left Side Of Head	Cheek/Touch		0.008		0.009
	Ear/Tilt		0.026		0.029
Body (5mm Separation)	Back upward		0.706		0.783
	Front upward		0.084		0.093



Summary of Measurement Results (LTE Band 1)

Temperature: 21.0~23.8°C, humidity: 50~60%.						
Phantom Configurations	Test Mode	Device Test Positions	Device Test channel	SAR (W/Kg)	Scaling Factor	Scaled SAR
Right Side Of Head	QPSK 20MHz 1RB	Cheek/Touch	18300	0.034	1.066	0.036
		Ear/Tilt		0.008		0.009
Left Side Of Head		Cheek/Touch		0.043		0.046
		Ear/Tilt		0.010		0.011
Body (10mm Separation)		Back upward		0.407		0.434
		Front upward		0.113		0.120

Summary of Measurement Results (LTE Band 3)

Temperature: 21.0~23.8°C, humidity: 50~60%.						
Phantom Configurations	Test Mode	Device Test Positions	Device Test channel	SAR (W/Kg)	Scaling Factor	Scaled SAR
Right Side Of Head	QPSK 20MHz 1RB	Cheek/Touch	19575	0.035	1.149	0.040
		Ear/Tilt		0.010		0.011
		Cheek/Touch		0.025		0.029
		Ear/Tilt		0.004		0.005
Body (10mm Separation)		Back upward		0.311		0.357
		Front upward		0.066		0.076



Summary of Measurement Results (LTE Band 5)

Temperature: 21.0~23.8°C, humidity: 50~60%.						
Phantom Configurations	Test Mode	Device Test Positions	Device Test channel	SAR (W/Kg)	Scaling Factor	Scaled SAR
Right Side Of Head	QPSK 10MHz	Cheek/Touch	20525	0.058	1.057	0.061
		Ear/Tilt		0.043		0.045
		Cheek/Touch		0.066		0.070
		Ear/Tilt		0.051		0.054
Body (10mm Separation)	1RB	Back upward		0.103		0.109
		Front upward		0.148		0.156

Summary of Measurement Results (LTE Band 7)

Temperature: 21.0~23.8°C, humidity: 50~60%.						
Phantom Configurations	Test Mode	Device Test Positions	Device Test channel	SAR (W/Kg)	Scaling Factor	Scaled SAR
Right Side Of Head	QPSK 20MHz	Cheek/Touch	21100	0.077	1.335	0.103
		Ear/Tilt		0.062		0.083
		Cheek/Touch		0.164		0.219
		Ear/Tilt		0.042		0.056
Body (10mm Separation)	1RB	Back upward		0.911		1.216
		Front upward		0.509		0.680



Summary of Measurement Results (LTE Band 8)

Temperature: 21.0~23.8°C, humidity: 50~60%.						
Phantom Configurations	Test Mode	Device Test Positions	Device Test channel	SAR (W/Kg)	Scaling Factor	Scaled SAR
Right Side Of Head	QPSK 10MHz 1RB	Cheek/Touch	21625	0.033	1.091	0.036
		Ear/Tilt		0.021		0.023
Left Side Of Head		Cheek/Touch		0.043		0.047
		Ear/Tilt		0.023		0.025
Body (10mm Separation)		Back upward		0.058		0.063
		Front upward		0.071		0.077

Summary of Measurement Results (LTE Band 20)

Temperature: 21.0~23.8°C, humidity: 50~60%.						
Phantom Configurations	Test Mode	Device Test Positions	Device Test channel	SAR (W/Kg)	Scaling Factor	Scaled SAR
Right Side Of Head	QPSK 20MHz 1RB	Cheek/Touch	24300	0.052	1.163	0.060
		Ear/Tilt		0.030		0.035
Left Side Of Head		Cheek/Touch		0.069		0.080
		Ear/Tilt		0.028		0.033
Body (10mm Separation)		Back upward		0.116		0.135
		Front upward		0.094		0.109



Summary of Measurement Results (LTE Band 40)

Temperature: 21.0~23.8°C, humidity: 50~60%.						
Phantom Configurations	Test Mode	Device Test Positions	Device Test channel	SAR (W/Kg)	Scaling Factor	Scaled SAR
Right Side Of Head	QPSK 20MHz 1RB	Cheek/Touch	39150	0.026	1.033	0.027
		Ear/Tilt		0.015		0.015
Left Side Of Head		Cheek/Touch		0.043		0.044
		Ear/Tilt		0.012		0.012
Body (10mm Separation)		Back upward		0.293		0.303
		Front upward		0.191		0.197

Summary of Measurement Results (WLAN 802.11b Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.							
Phantom Configurations	Device Test Positions	Device Test channel	SAR(W/Kg) , 10g Peak	Duty Cycle	Scaling Factor (Duty Cycle)	Scaling Factor (Power)	Scaled SAR (W/Kg), 10g
Right Side Of Head	Cheek/Touch	7	0.019	100%	1	1.094	0.021
	Ear/Tilt		0.015				0.016
Left Side Of Head	Cheek/Touch		0.021				0.023
	Ear/Tilt		0.012				0.013
Body (10mm Separation)	Back upward		0.141				0.154
	Front upward		0.071				0.078

Note:

1. The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at the middle channel for each test configuration is at least 3.0dB lower than the SAR limit, testing at the high and low channels is optional.
2. The Max power of SRD is 11.61mW, which is lower than 20mW, according to EN62479, the 5G transmitter is not subject to SAR evaluation.



3. The Max power of 5G WiFi is 13.98mW, which is lower than 20mW, according to EN62479, the 5G transmitter is not subject to SAR evaluation.
4. Scaling Factor calculation

Band	Channel	Tune-up power tolerance(dBm)	SAR test channel Power (dBm)	Scaling Factor
GSM 850	130	PCL = 5, PWR =33+-0.5	33.32	1.042
	190		33.43	1.016
	249		33.48	1.005
GPRS 850	130	PCL = 5, PWR =26.5+-0.5(2 slots)	25.94	1.276
	190		26.17	1.211
	249		26.65	1.084
GSM 900	975	PCL = 5, PWR =33.5+-0.5	33.52	1.117
	38		33.69	1.074
	124		33.67	1.079
GPRS 900	975	PCL = 5, PWR =26.5+-0.5(2 slots)	26.82	1.042
	38		26.86	1.033
	124		26.88	1.028
GSM 1800	512	PCL = 0, PWR =29.5+-0.5	29.43	1.140
	698		29.61	1.094
	885		29.52	1.117
GPRS1800	512	PCL = 0, PWR =24+-0.5(4 slots))	24.06	1.107
	698		24.04	1.112
	885		24.13	1.089
GSM 1900	512	PCL = 0, PWR =29+-0.5	29.18	1.076
	661		29.28	1.052
	810		29.47	1.007
GPRS1900	512	PCL = 0, PWR =23.5+-0.5(4 slots)	23.41	1.146
	661		23.40	1.148
	810		23.79	1.050
WCDMA 850	4131	Max output power =22+1/-2)	22.74	1.062
	4182		22.43	1.140
	4233		22.65	1.084
WCDMA 900	2712	Max output power =22(+1/-2)	22.90	1.023
	2787		22.85	1.035
	2863		22.89	1.026
WCDMA 1900	9262	Max output power =22.5(+1/-2)	23.52	1.117



	9400		23.39	1.151
	9538		23.09	1.233
WCDMA 2100	9612	Max output power =22.5 (+1/-2)	23.38	1.028
	9750		23.05	1.109
	9888		23.28	1.052
LTE BAND1	18100	Max output power =22+-0.5	22.162	1.081
	18300		22.221	1.066
	18500		22.089	1.099
LTE BAND3	19300	Max output power =22.5+-0.5	22.266	1.184
	19575		22.396	1.149
	19850		22.650	1.084
LTE BAND5	20450	Max output power =22+-0.5	22.442	1.013
	20525		22.258	1.057
	20600		22.088	1.100
LTE BAND7	20850	Max output power =22+-0.5	22.650	1.365
	21100		22.746	1.335
	21350		23.635	1.088
LTE BAND8	21500	Max output power =22.5+-0.5	22.431	1.140
	21625		22.622	1.091
	21750		22.476	1.128
LTE BAND20	24250	Max output power =22.5+-0.5	22.286	1.179
	24300		22.345	1.163
	24350		22.697	1.072
LTE BAND40	38750	Max output power =23+-0.5	22.599	1.231
	39150		23.359	1.033
	39550		21.323	1.651
802.11b	7	Max output power =14+-0.5	14.11	1.094

10 SIMULTANEOUS MULTI-BAND TRANSMISSION

No.	Applicable Simultaneous Transmission Combination
1	2G/3G/4G
2	2G/3G/4G+WLAN
3	WLAN+Bluetooth

Note:

1. DUT will choose either 2G/3G/4G according to the network signal condition, therefore, 2G/3G/4G will not transmit simultaneously.
2. Bluetooth stand-alone SAR test is not required and is considered zero in the SAR summation.
3. Multi-band transmission analysis for Body SAR is performed following EN62209-2 procedure.
4. Since electromagnetic field strength at worst of NFC case is: -14.23 dBμA/m at 10m which not exceed the exempt condition, 20mW specified in EN62479.
5. One way of determining the threshold power level available to the secondary transmitter ($P_{available}$) is to calculate it from the measured peak spatial-average SAR of the primary transmitter (SAR₁) according to the equation:

$$P_{available} = P_{th,m} \times (SAR_{lim} - SAR_1) / SAR_{lim} = 12.17mW$$

where $P_{th,m}$ is the threshold exclusion power level taken from Annex B of IEC 62479 for the frequency of the secondary transmitter at the separation distance used in the testing.

The output power of the BT is 3.69mW (5.67dBm) less than $P_{available}$, SAR measurement for the BT is not necessary.

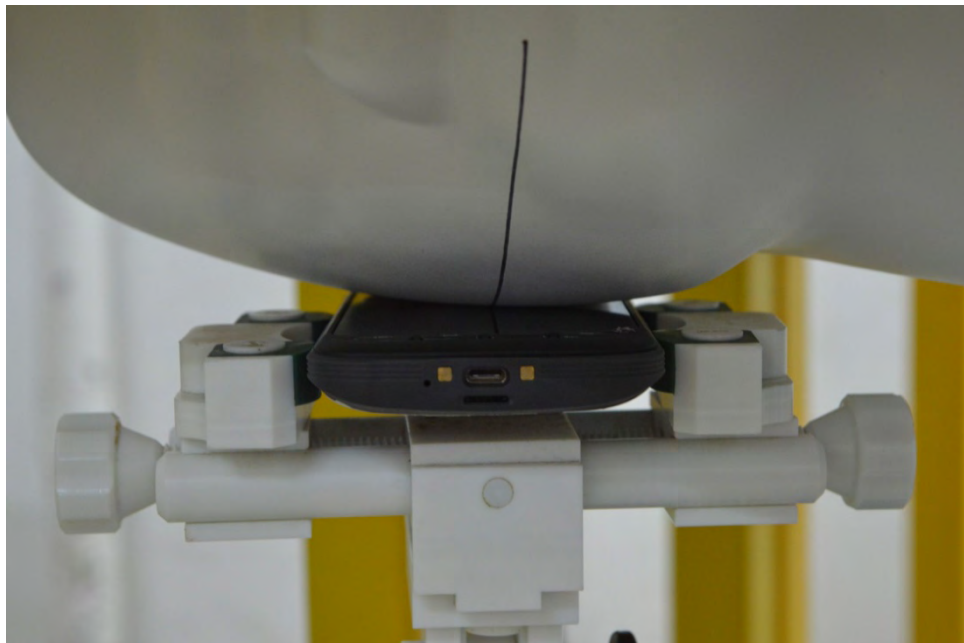
	GSM SAR (W/Kg)	WCDMA SAR(W/Kg)	LTE SAR(W/Kg)	Wi-Fi SAR (W/Kg)	Sum SAR of WWAN&WLAN (W/Kg)	Result
Max Head SAR	0.099	0.070	0.219	0.023	0.241	Pass
Max Body SAR	0.523	0.783	1.216	0.154	1.364	Pass

Summary:

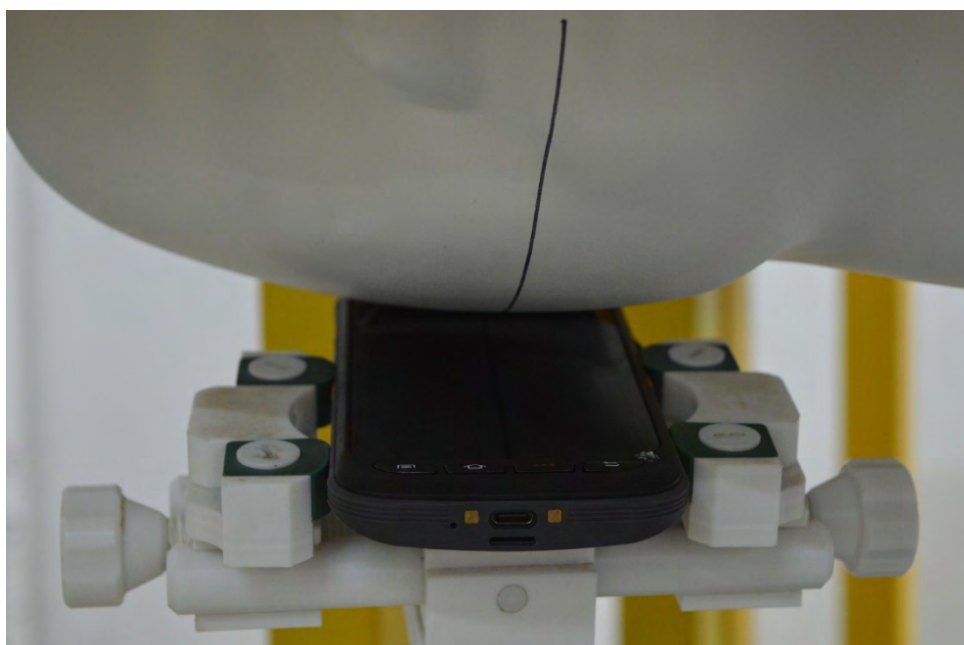
The SAR summation of maximum SAR of WWAN and WLAN for each position is under the SAR limitation (2.0W/Kg). Therefore, the simultaneous transmission condition is compliance with SAR criterion.

ANNEX A SETUP PHOTOS

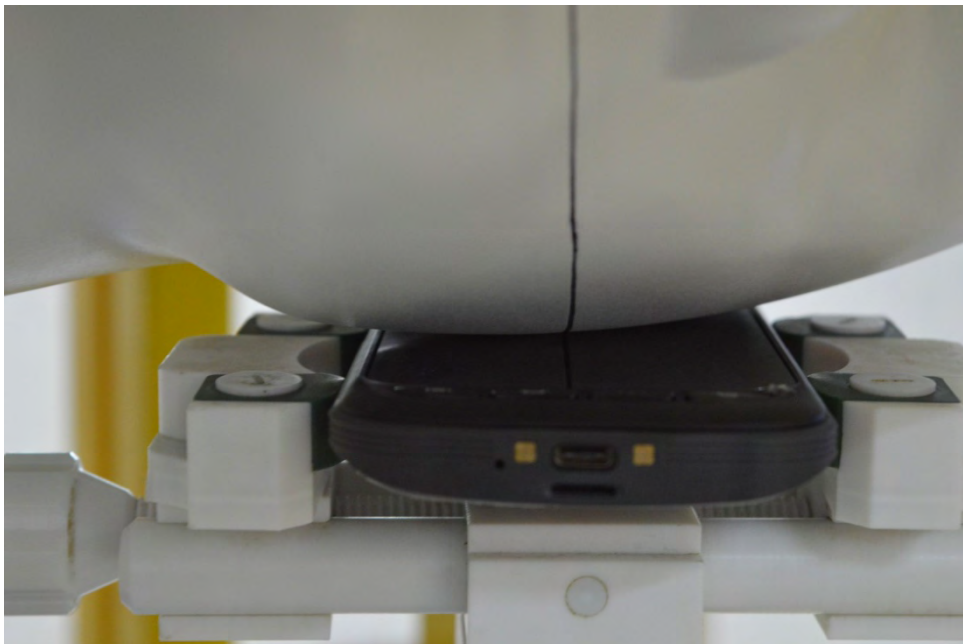
1. EUT Right Head Touch/Cheek Position



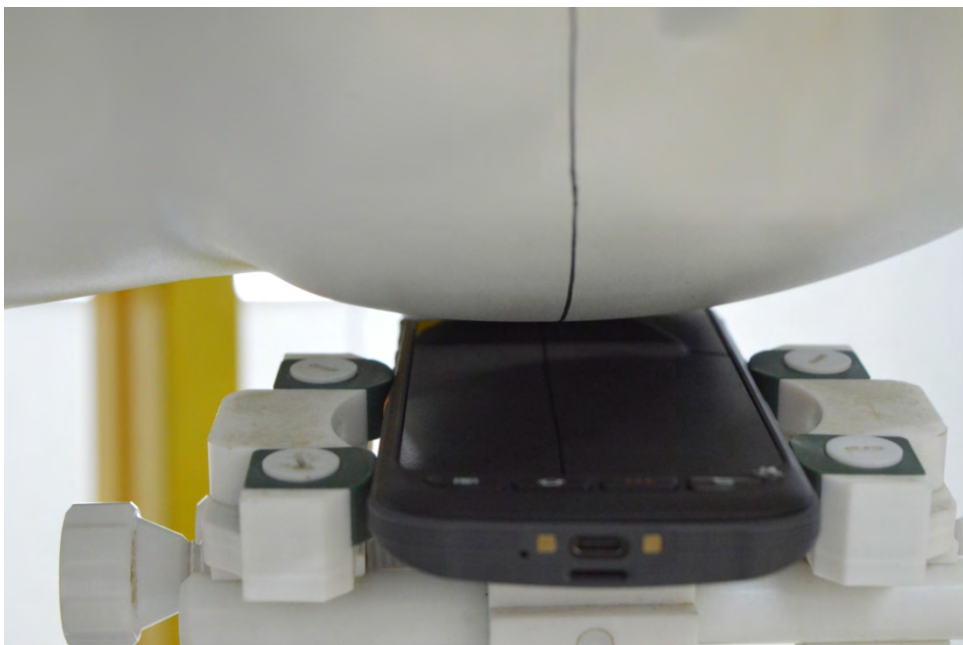
2. EUT Right Head Ear/Tilt(15°) Position



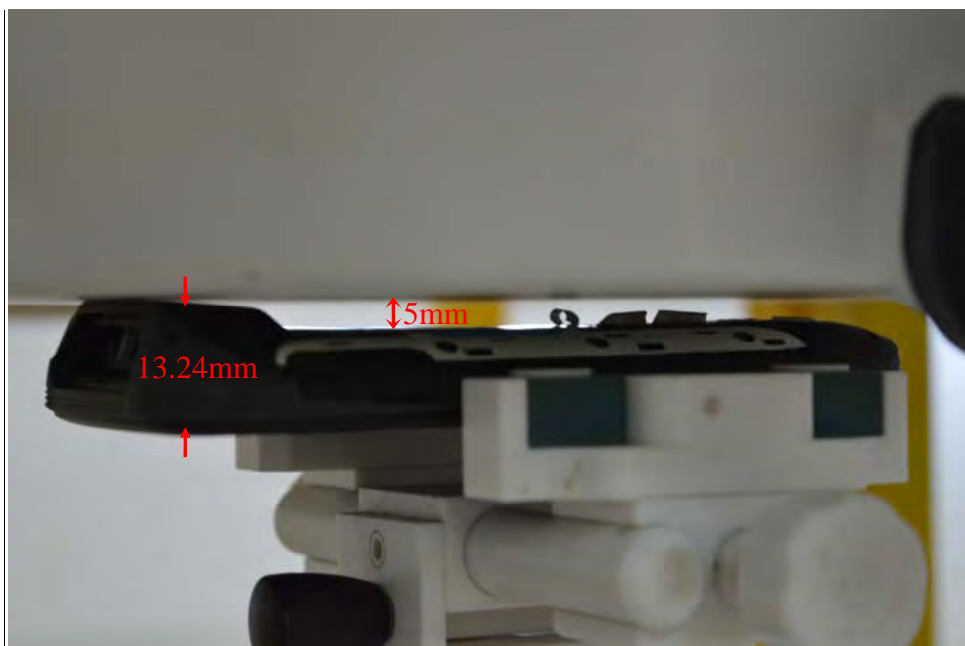
3. EUT Left Head Touch/Cheek Position



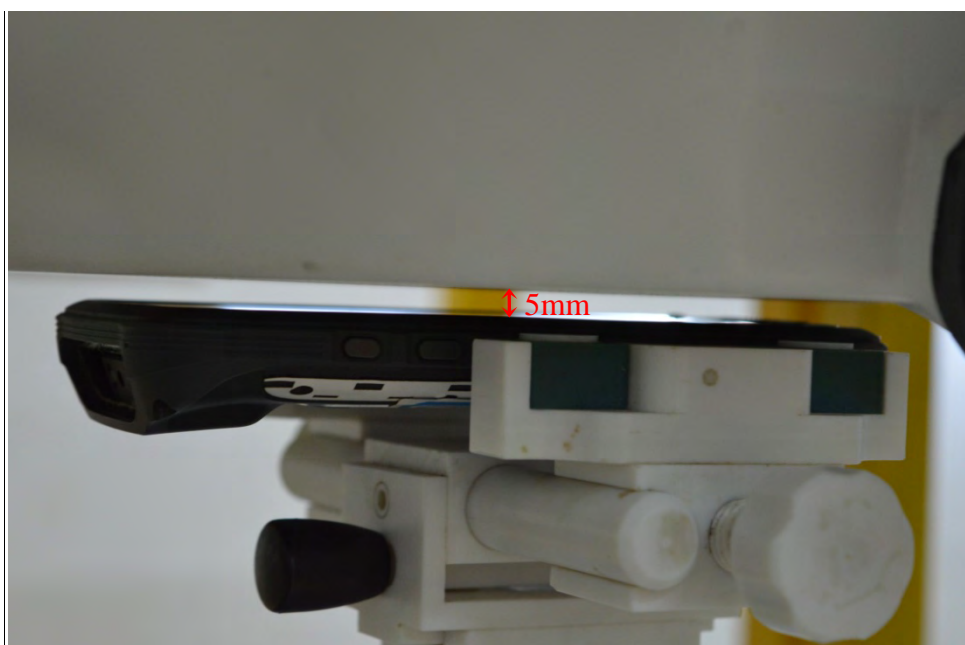
4. EUT Left Head Ear/Tilt(15°) Position



5. Back Side Position



6. Face Side Position





REPORT No. : SZ17080130S02

7. Liquid Level Photo



**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: 2017.09.07

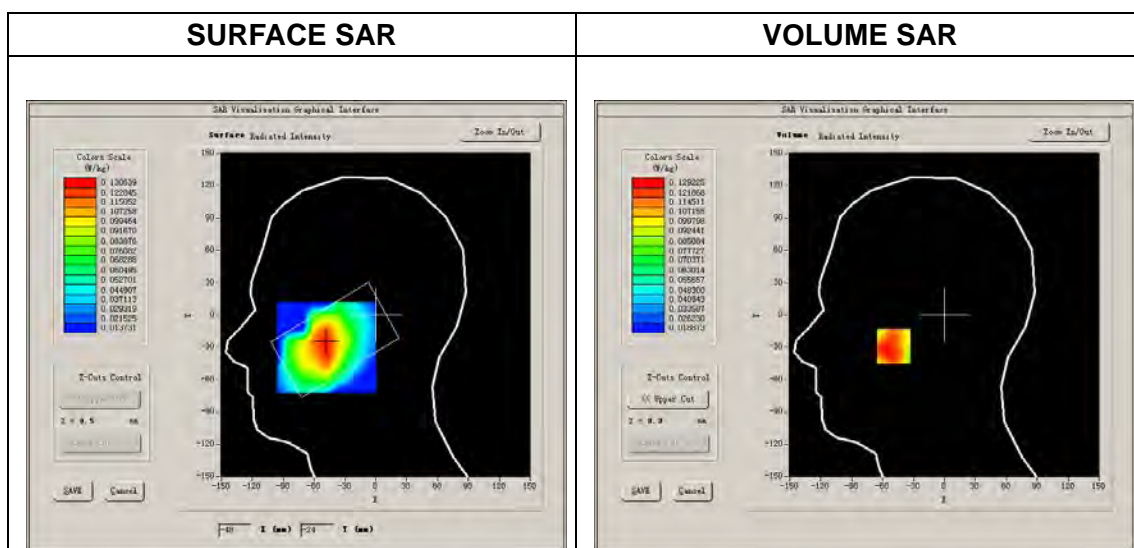
Measurement duration: 13 minutes 56 seconds

A. Experimental conditions.

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

B. SAR Measurement ResultsMiddle Band SAR (Channel 189):

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	-1.260000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:8

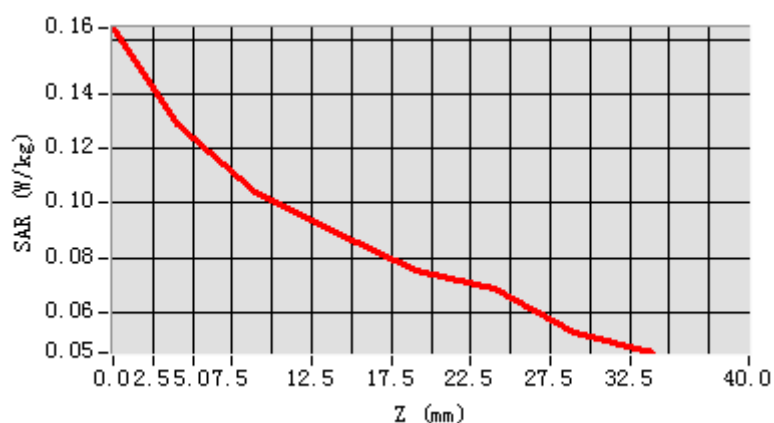


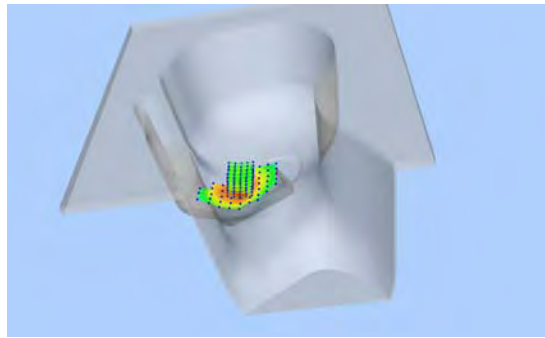
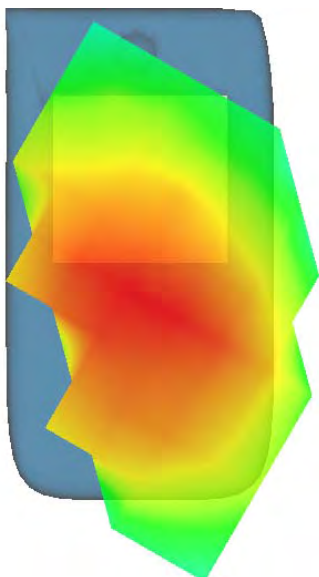


REPORT No. : SZ17080130S02
 Maximum location: X=-49.00, Y=-29.00
 SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.097188
SAR 1g (W/Kg)	0.127795

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1643	0.1292	0.1041	0.0890	0.0756	0.0688	0.0529



3D screen shot	Hot spot position
	

**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: 2017.09.07

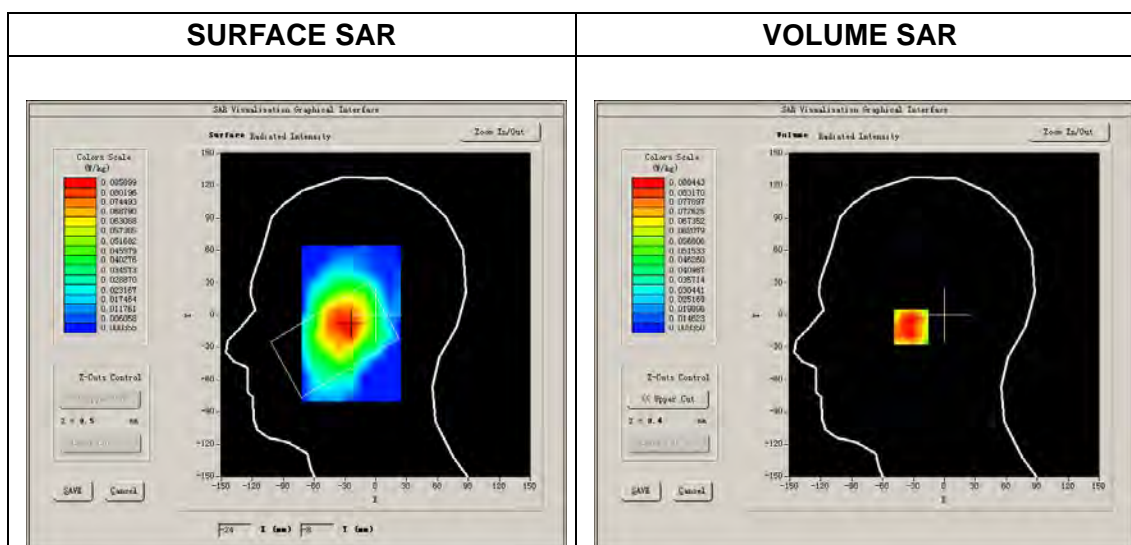
Measurement duration: 13 minutes 39 seconds

A. Experimental conditions.

Phantom File	<u>zinf5.txt, h= 5.00 mm</u>
Phantom	<u>Right head</u>
Device Position	<u>Tilt</u>
Band	<u>GSM850</u>
Channels	<u>Middle</u>
Signal	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 189):

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	-1.260000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:8

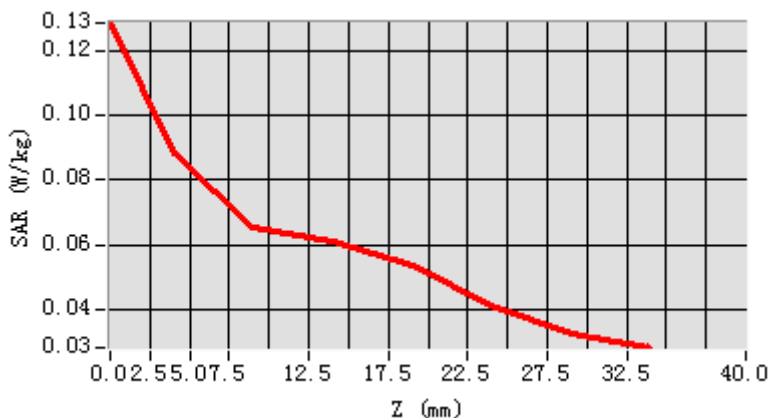


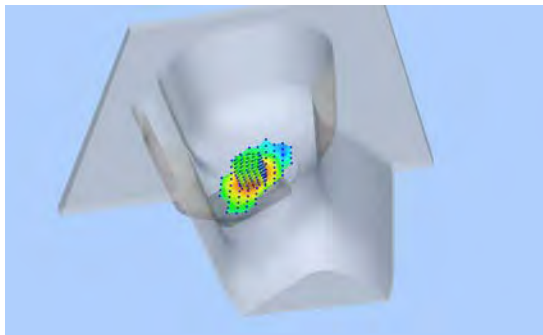
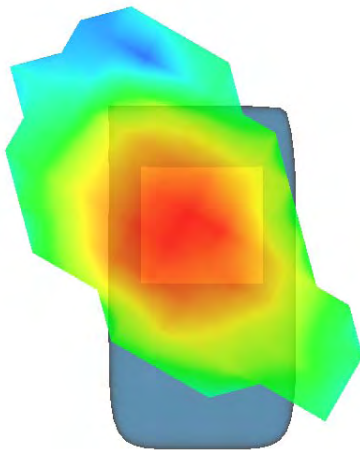


Maximum location: X=-28.00, Y=-11.00
 REPORT No. : SZ17080130S02
 SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.065675
SAR 1g (W/Kg)	0.087664

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1286	0.0884	0.0656	0.0611	0.0535	0.0409	0.0326



3D screen shot	Hot spot position
	

**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: 2017.09.07

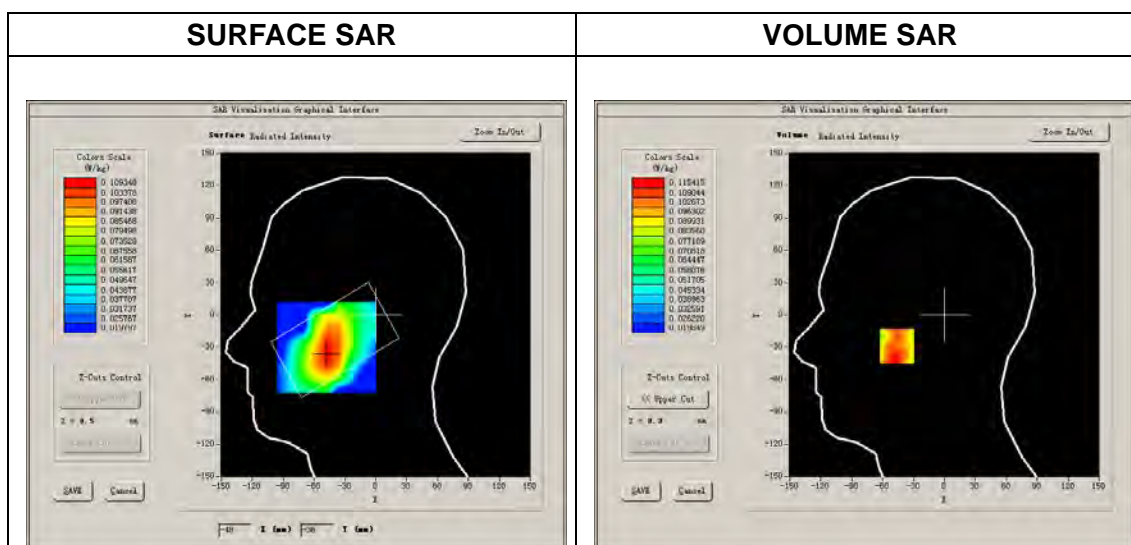
Measurement duration: 13 minutes 55 seconds

A. Experimental conditions.

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

B. SAR Measurement ResultsMiddle Band SAR (Channel 189):

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	-1.260000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:8





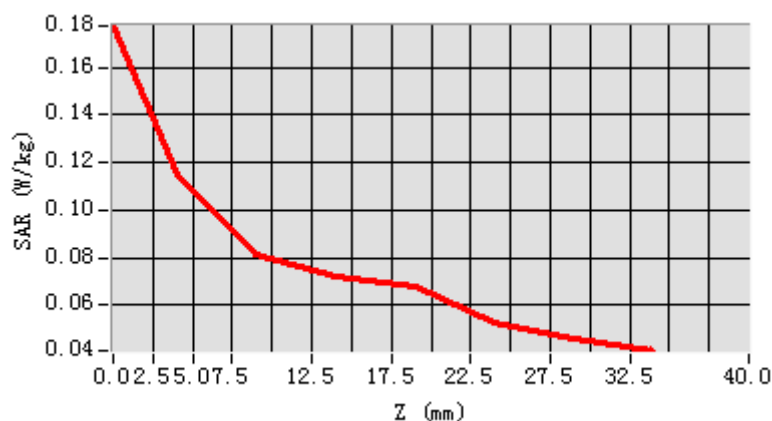
Maximum location: X=-46.00, Y=-29.00

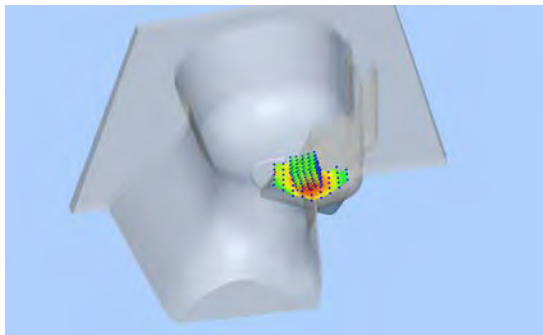
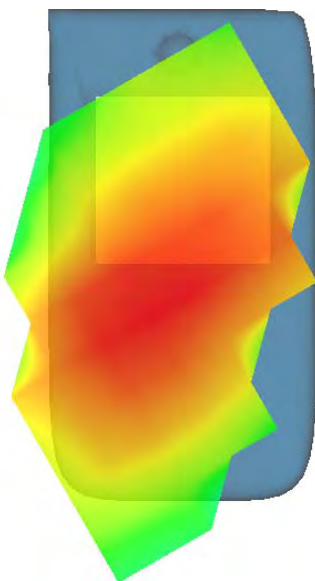
REPORT No. : SZ17080130S02

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.086658
SAR 1g (W/Kg)	0.111638

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1774	0.1154	0.0812	0.0720	0.0680	0.0525	0.0458



3D screen shot	Hot spot position
	

**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: 2017.09.07

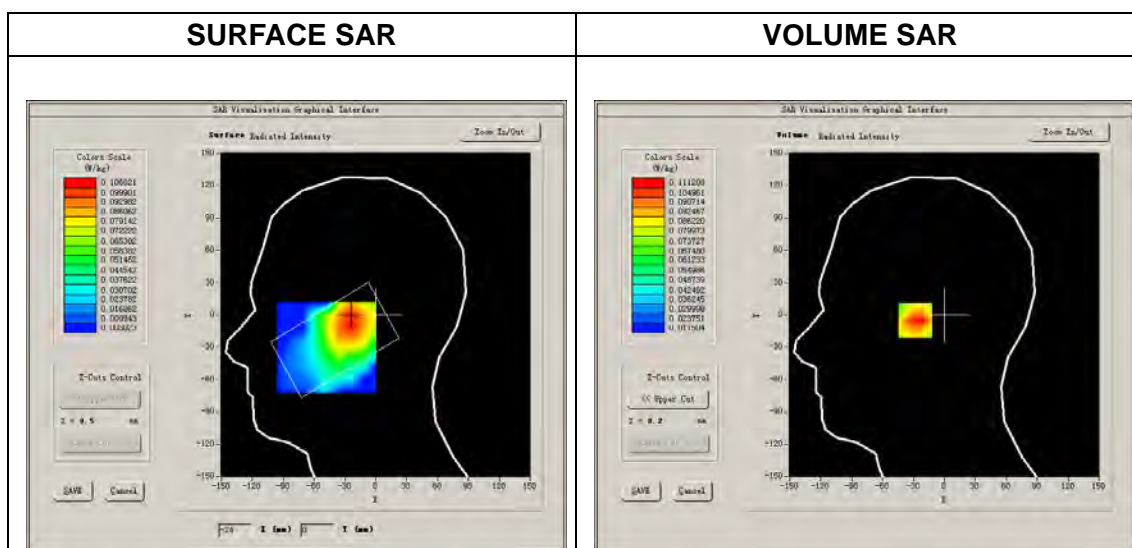
Measurement duration: 13 minutes 18 seconds

A. Experimental conditions.

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

B. SAR Measurement ResultsMiddle Band SAR (Channel 189):

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	-1.260000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:8



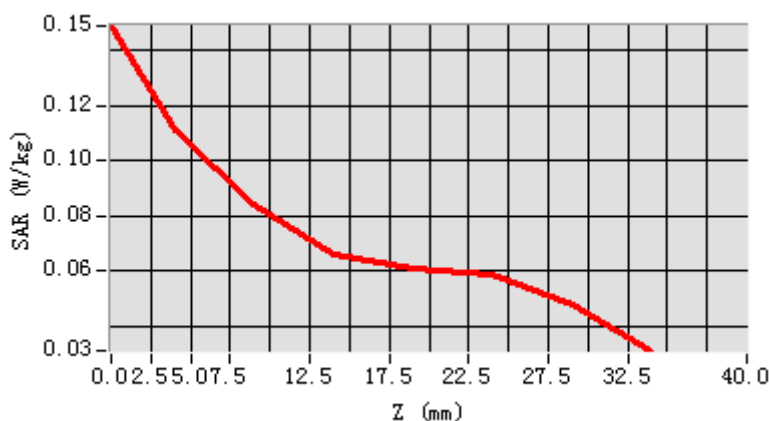


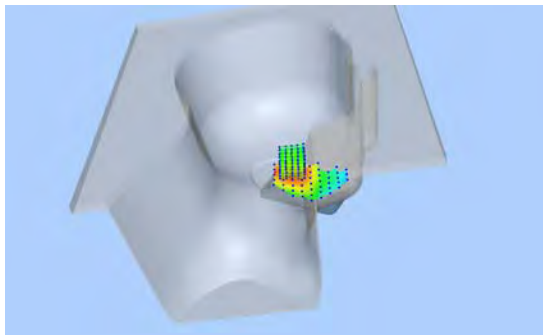
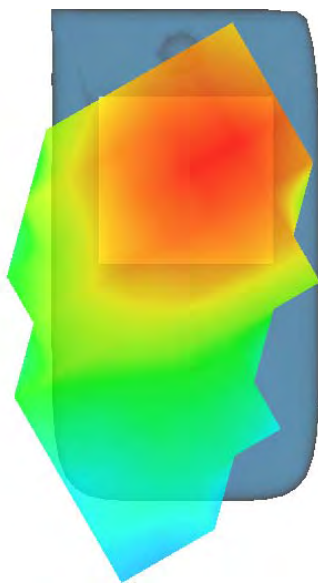
Maximum location: X=-24.00, Y=-5.00
 SAR Peak: 0.15 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.079080
SAR 1g (W/Kg)	0.104084

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1487	0.1112	0.0838	0.0656	0.0611	0.0588	0.0479



3D screen shot	Hot spot position
	

**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: 2017.09.07

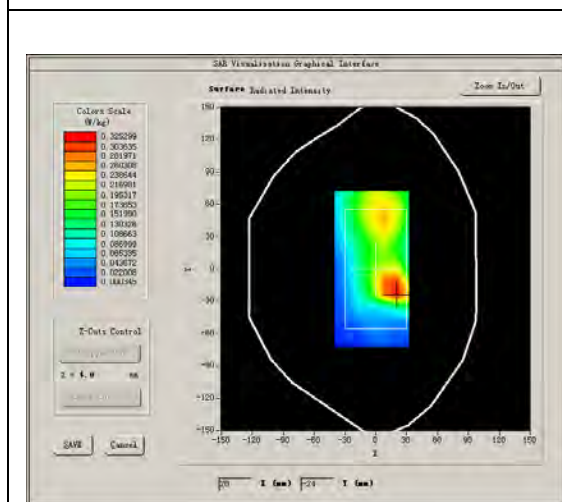
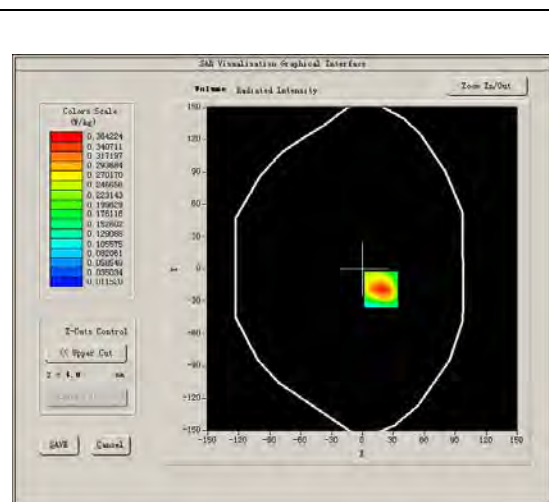
Measurement duration: 13 minutes 47 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 189):

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	-1.260000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:8

SURFACE SAR**VOLUME SAR**

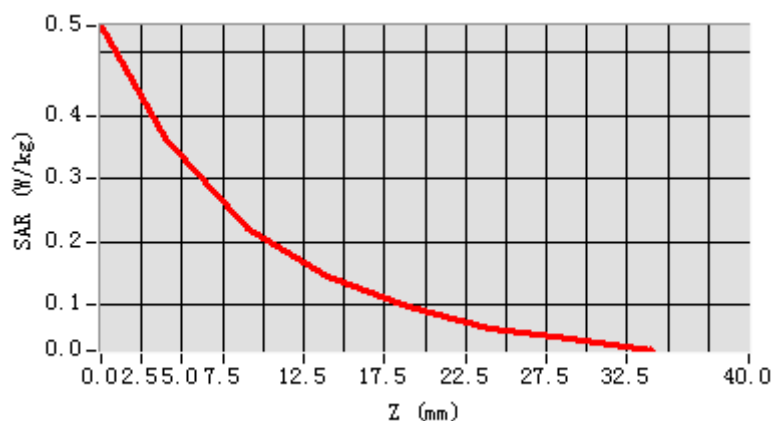


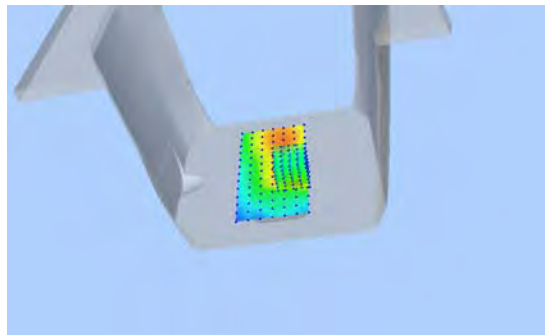
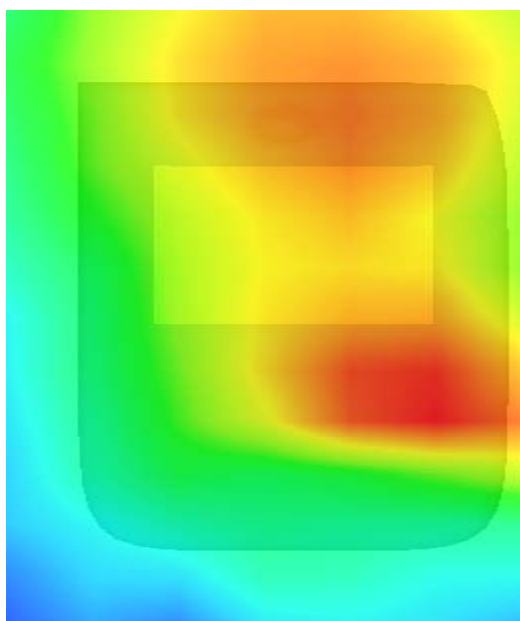
Maximum location: X=18.00, Y=-19.00
SAR Peak: 0.57 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.193208
SAR 1g (W/Kg)	0.348149

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5418	0.3642	0.2209	0.1442	0.0974	0.0630	0.0477



3D screen shot	Hot spot position
	

**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: 2017.09.07

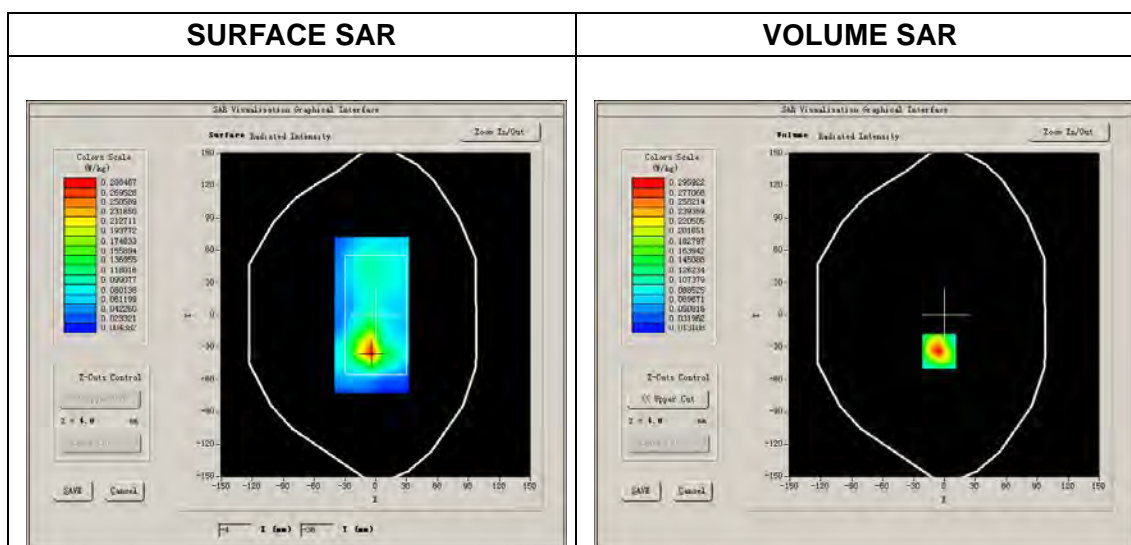
Measurement duration: 13 minutes 48 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 189):

Frequency (MHz)	836.400000
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	-1.260000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:8



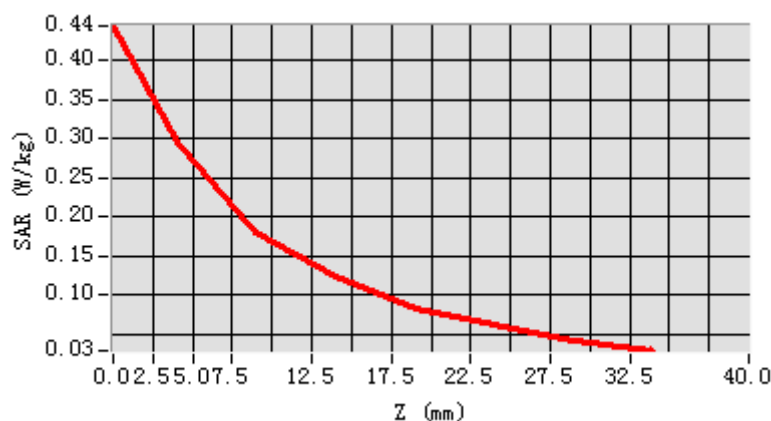


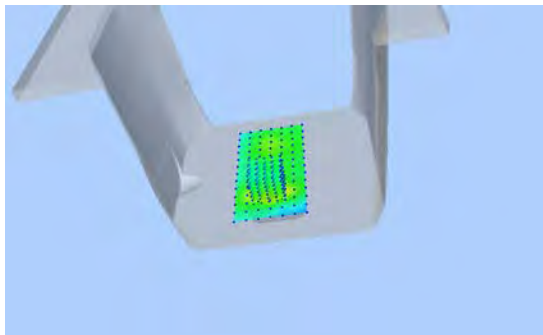
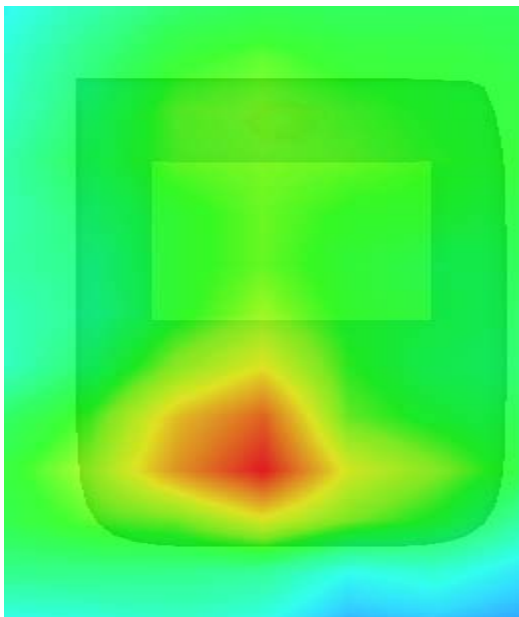
Maximum location: X=-5.00, Y=-34.00
SAR Peak: 0.45 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.156640
SAR 1g (W/Kg)	0.276740

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4448	0.2959	0.1817	0.1239	0.0832	0.0627	0.0412



3D screen shot	Hot spot position
	

**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: 2017.09.07

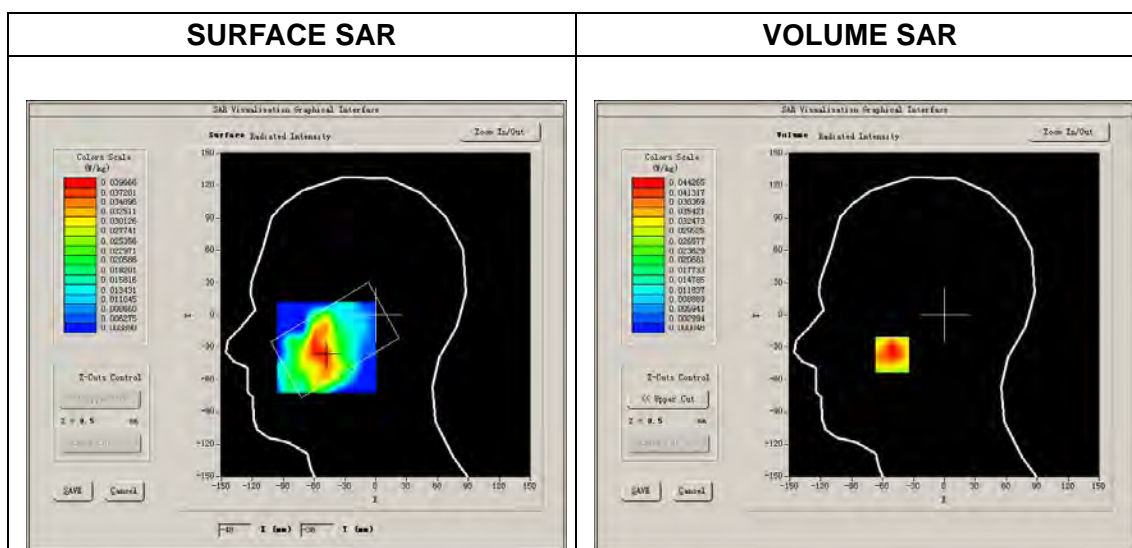
Measurement duration: 13 minutes 5 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 38):

Frequency (MHz)	897.599976
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	1.140000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.11
Crest factor:	1:8

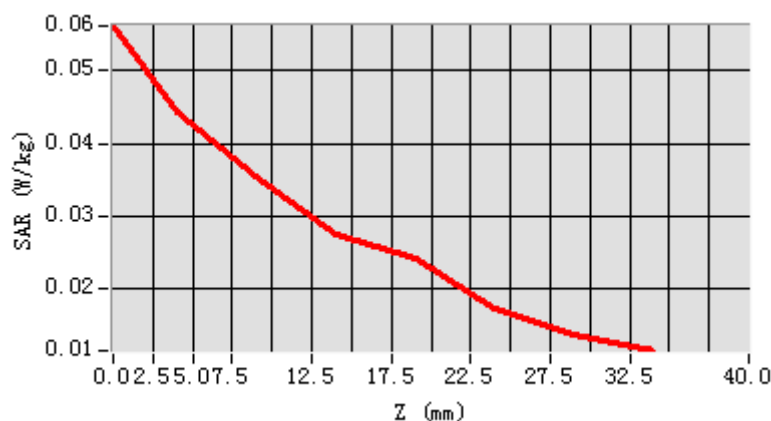


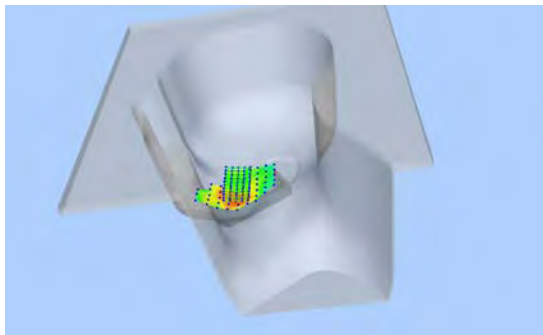
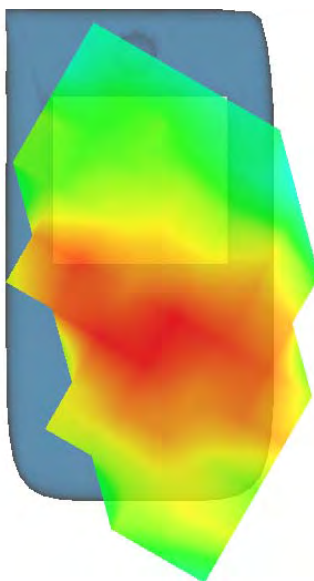


REPORT No. : SZ17080130S02
 Maximum location: X=-51.00, Y=-37.00
 SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.031983
SAR 1g (W/Kg)	0.044165

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0562	0.0443	0.0354	0.0274	0.0241	0.0172	0.0136



3D screen shot	Hot spot position
	

**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: 2017.09.07

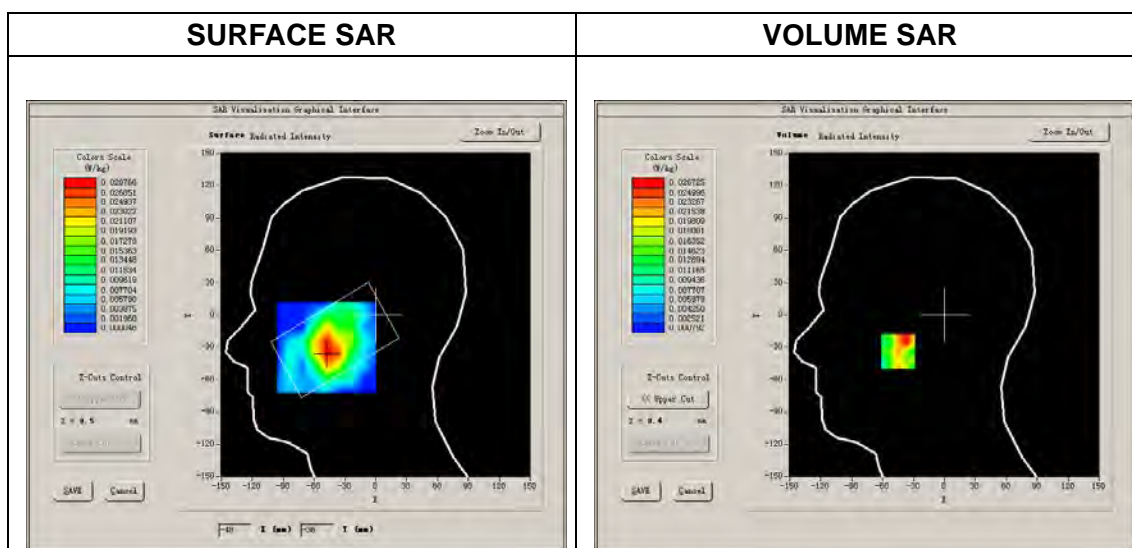
Measurement duration: 13 minutes 59 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>GSM900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 38):

Frequency (MHz)	897.599976
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	1.140000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.11
Crest factor:	1:8



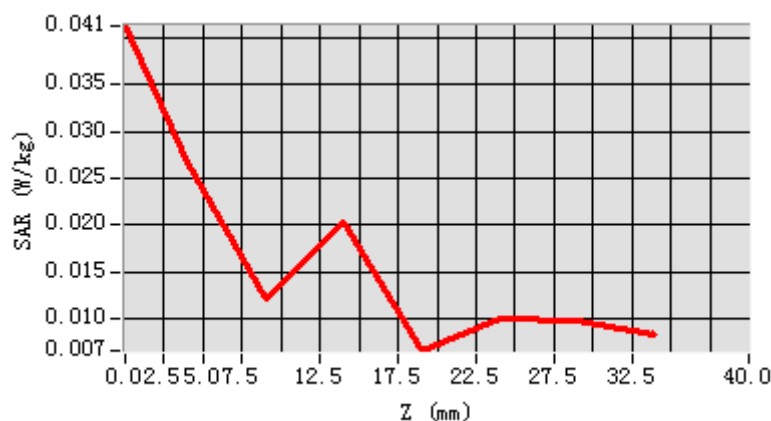


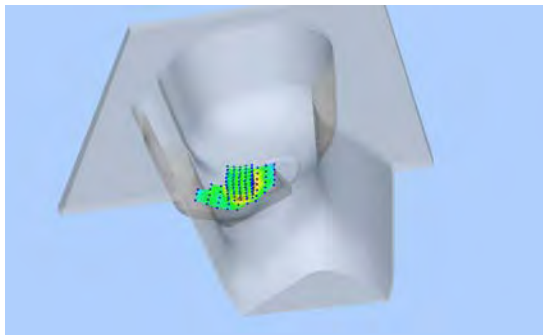
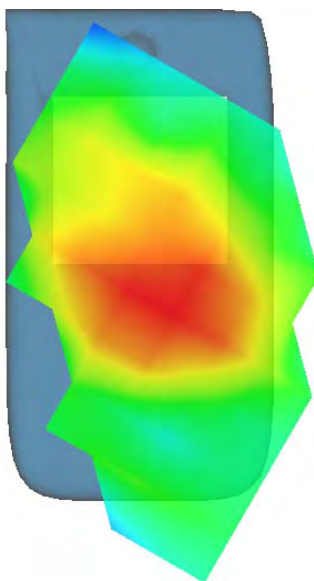
Maximum location: X=-45.00, Y=-34.00 REPORT No. : SZ17080130S02

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.016993
SAR 1g (W/Kg)	0.023448

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0413	0.0267	0.0121	0.0203	0.0066	0.0101	0.0098



3D screen shot	Hot spot position
	

**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: 2017.09.07

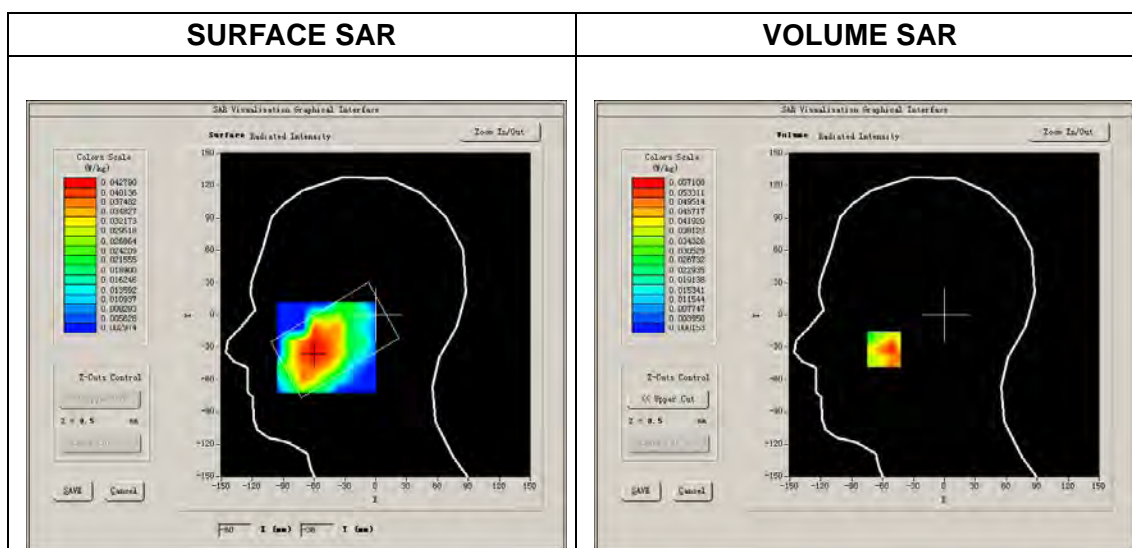
Measurement duration: 13 minutes 12 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 38):

Frequency (MHz)	897.599976
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	1.140000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.11
Crest factor:	1:8



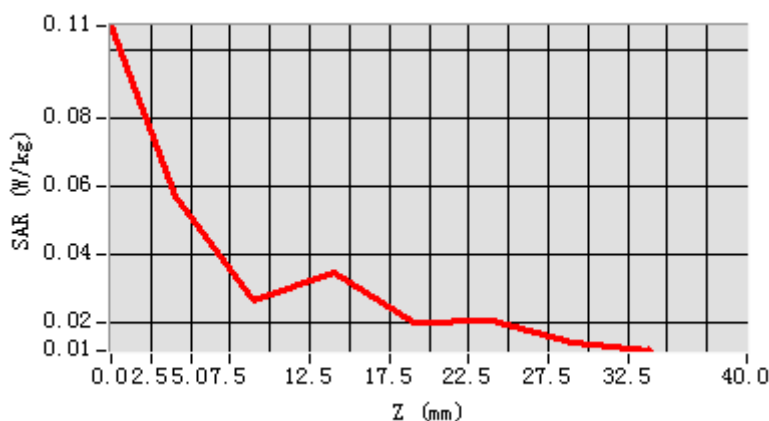


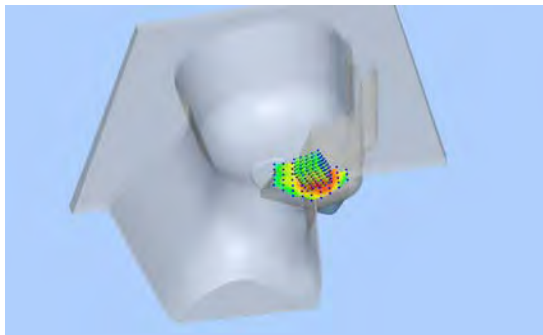
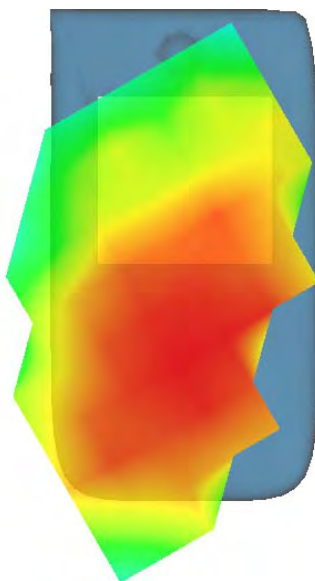
Maximum location: X=-59.00, Y=-32.00 REPORT No. : SZ17080130S02

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.037319
SAR 1g (W/Kg)	0.055827

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1071	0.0571	0.0265	0.0345	0.0198	0.0207	0.0139



3D screen shot	Hot spot position
	

**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: 2017.09.07

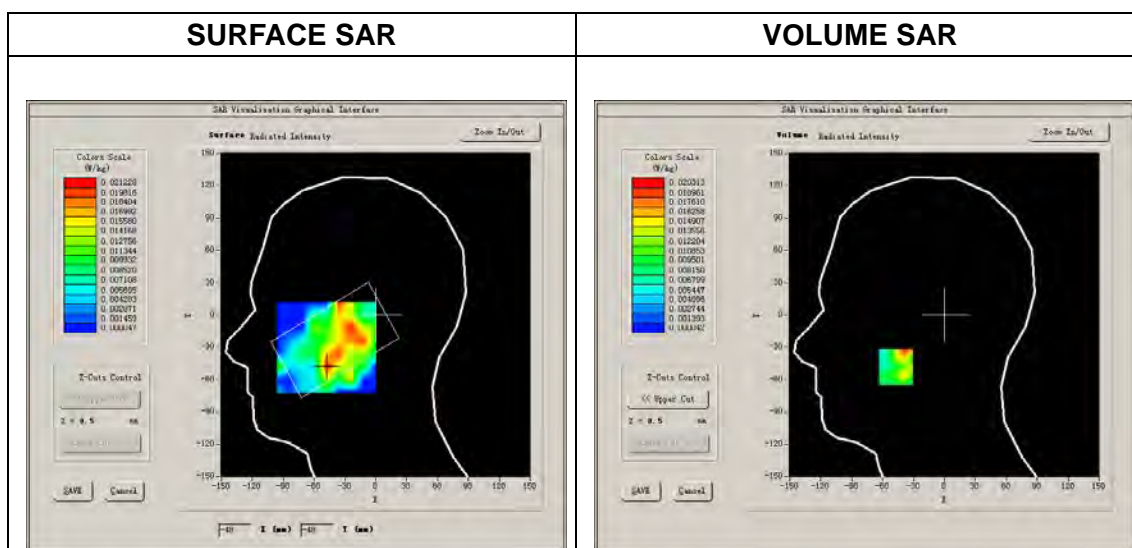
Measurement duration: 13 minutes 12 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>GSM900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 38):

Frequency (MHz)	897.599976
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	1.140000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.11
Crest factor:	1:8



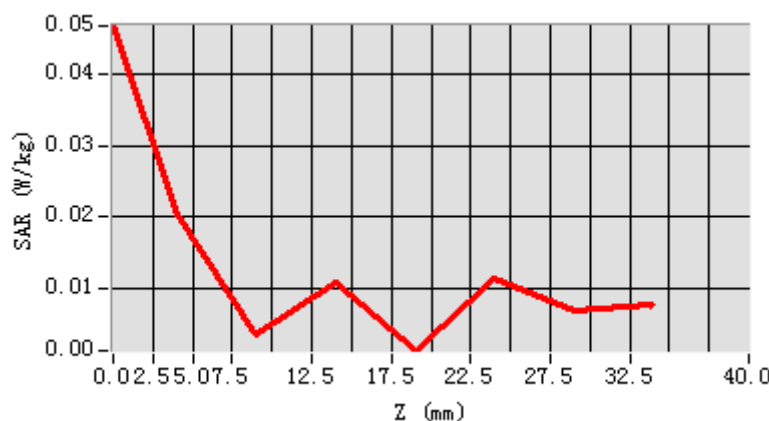


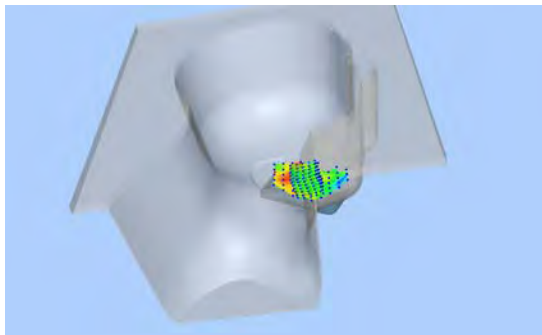
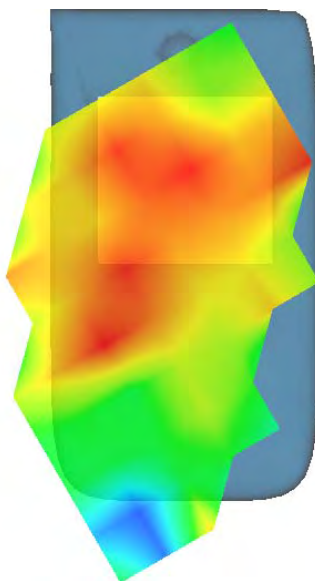
Maximum location: X=-47.00, Y=-48.00
 SAR Peak: 0.04 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.011937
SAR 1g (W/Kg)	0.019548

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0469	0.0203	0.0035	0.0106	0.0012	0.0112	0.0068



3D screen shot	Hot spot position
	

**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: 2017.09.07

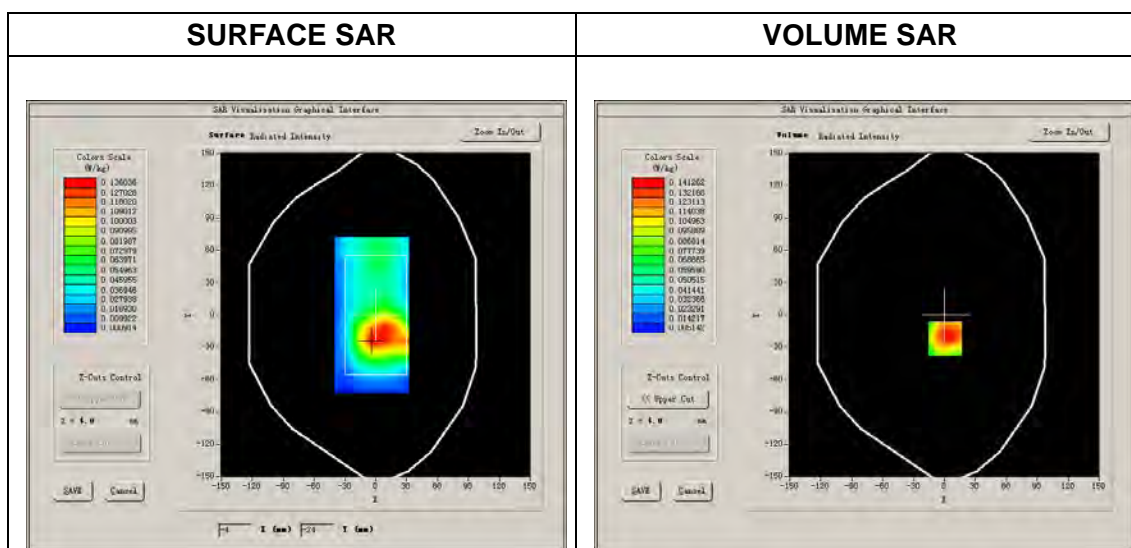
Measurement duration: 13 minutes 49 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 38):

Frequency (MHz)	897.599976
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	1.140000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.11
Crest factor:	1:8

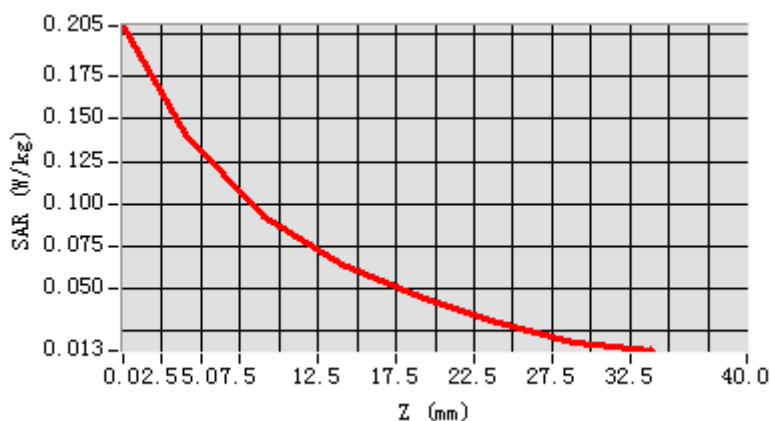


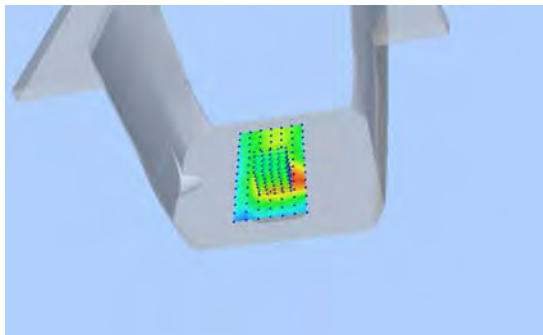
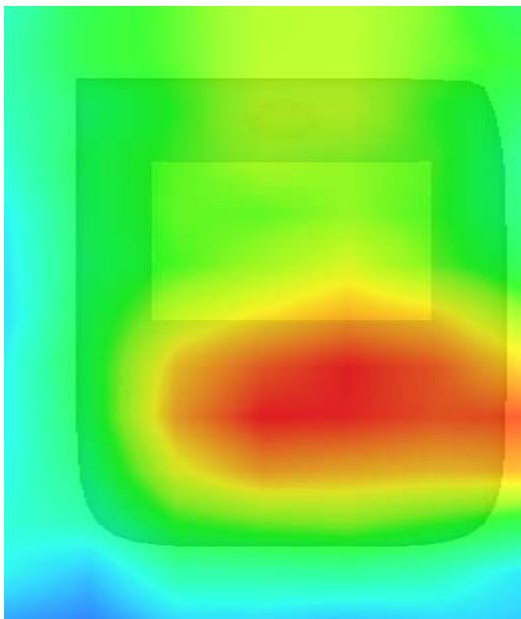


REPORT No. : SZ17080130S02
Maximum location: X=1.00, Y=-22.00
SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.085489
SAR 1g (W/Kg)	0.138515

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2049	0.1413	0.0920	0.0643	0.0449	0.0295	0.0185



3D screen shot	Hot spot position
	

**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: 2017.09.07

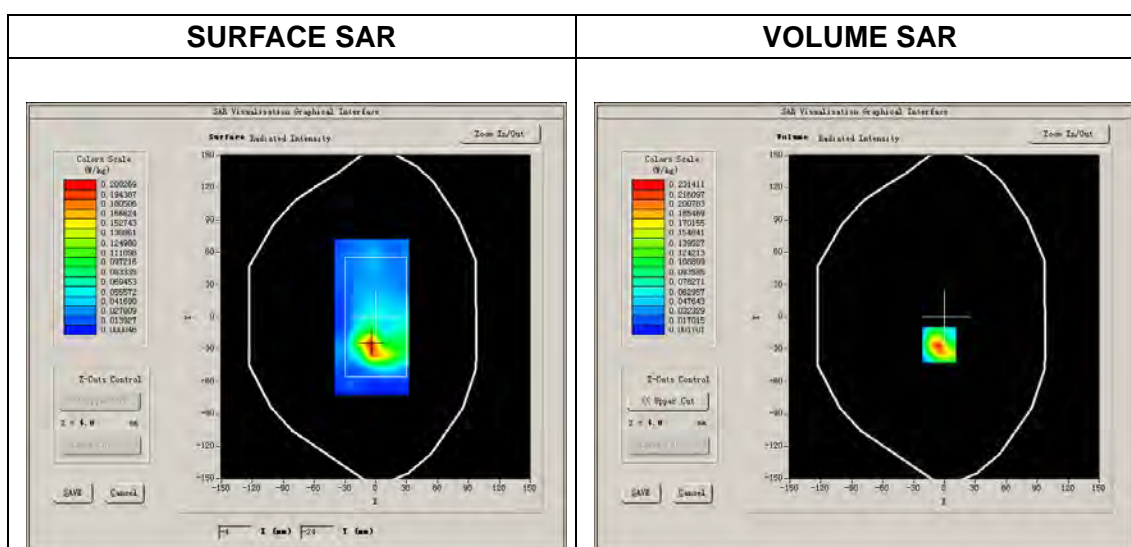
Measurement duration: 13 minutes 49 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 38):

Frequency (MHz)	897.599976
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	1.140000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.11
Crest factor:	1:8



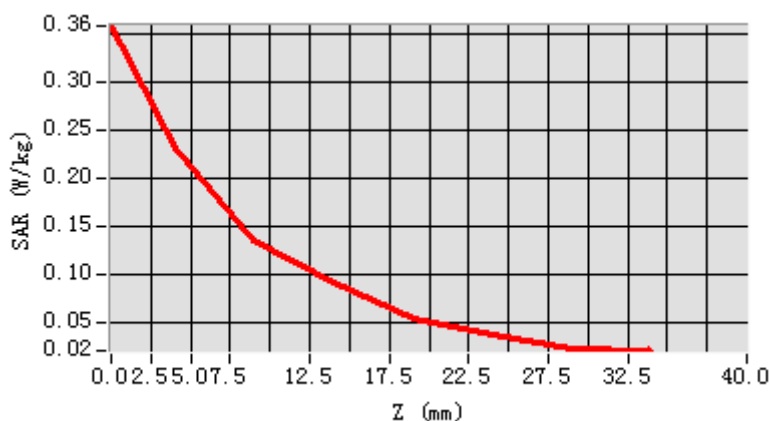


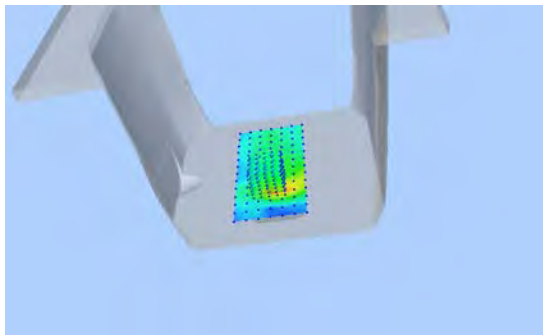
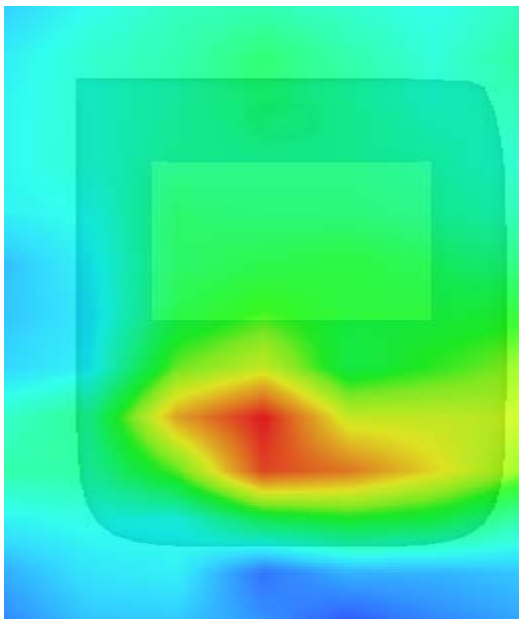
Maximum location: X=-5.00, Y=-26.00
SAR Peak: 0.37 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.107039
SAR 1g (W/Kg)	0.215049

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3579	0.2314	0.1348	0.0921	0.0545	0.0374	0.0227



3D screen shot	Hot spot position
	

**MEASUREMENT 13**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

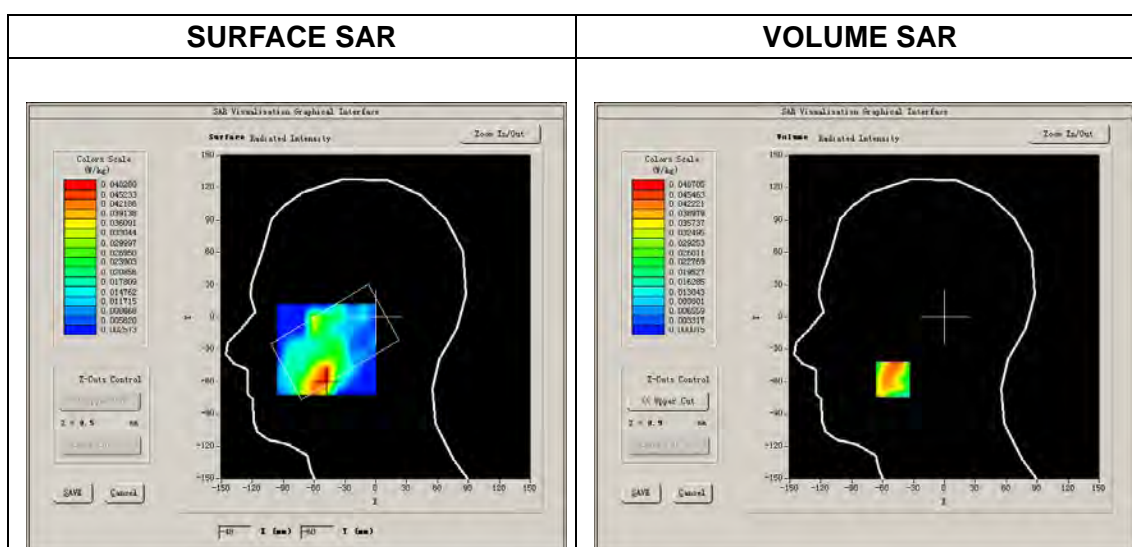
Measurement duration: 13 minutes 25 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 698):

Frequency (MHz)	1747.400024
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.21
Crest factor:	1:8

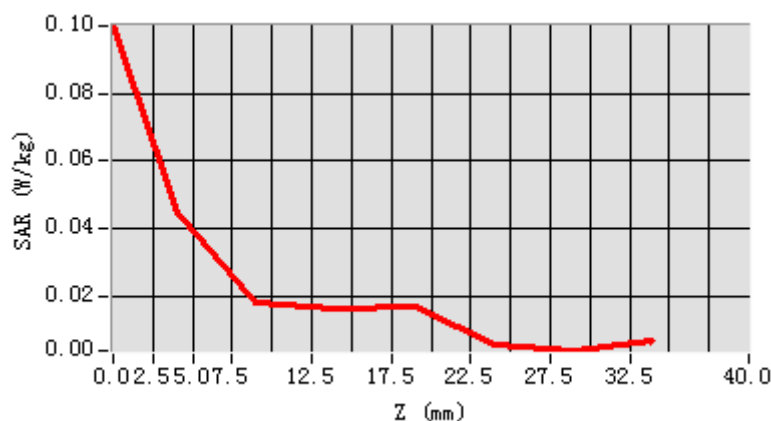


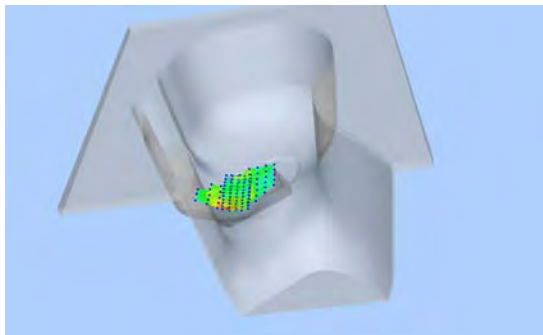
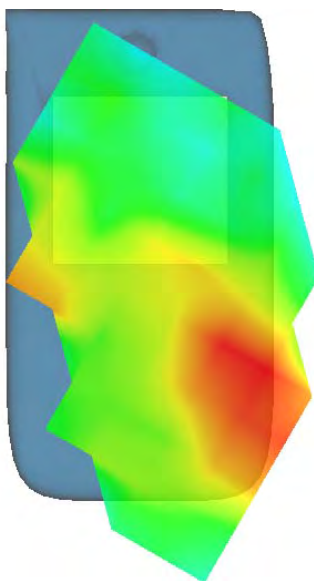


REPORT No. : SZ17080130S02
Maximum location: X=-50.00, Y=-58.00
SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.029558
SAR 1g (W/Kg)	0.046665

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1002	0.0449	0.0181	0.0165	0.0166	0.0053	0.0037



3D screen shot	Hot spot position
	

**MEASUREMENT 14**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

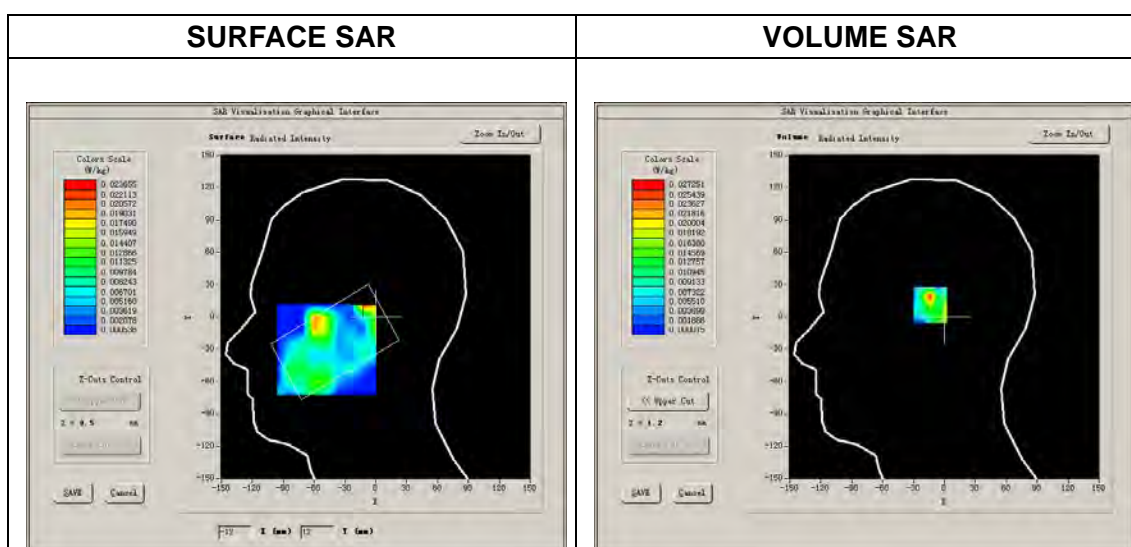
Measurement duration: 13 minutes 21 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>GSM1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 698):

Frequency (MHz)	1747.400024
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.21
Crest factor:	1:8

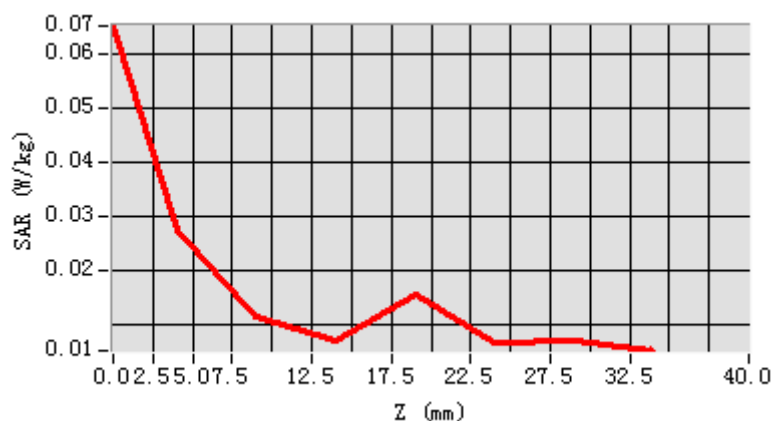


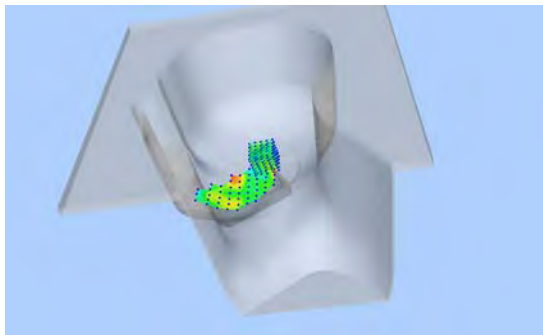
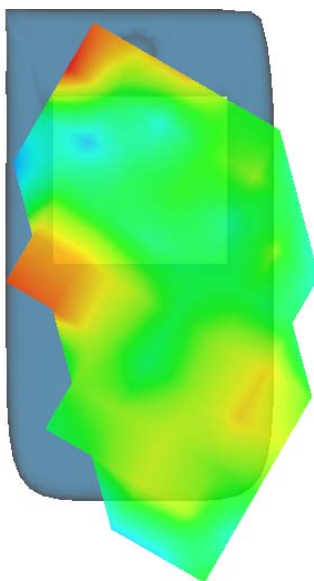


REPORT No. : SZ17080130S02
Maximum location: X=-10.00, Y=12.00
SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.011428
SAR 1g (W/Kg)	0.026328

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0652	0.0273	0.0114	0.0071	0.0155	0.0065	0.0071



3D screen shot	Hot spot position
	

**MEASUREMENT 15**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

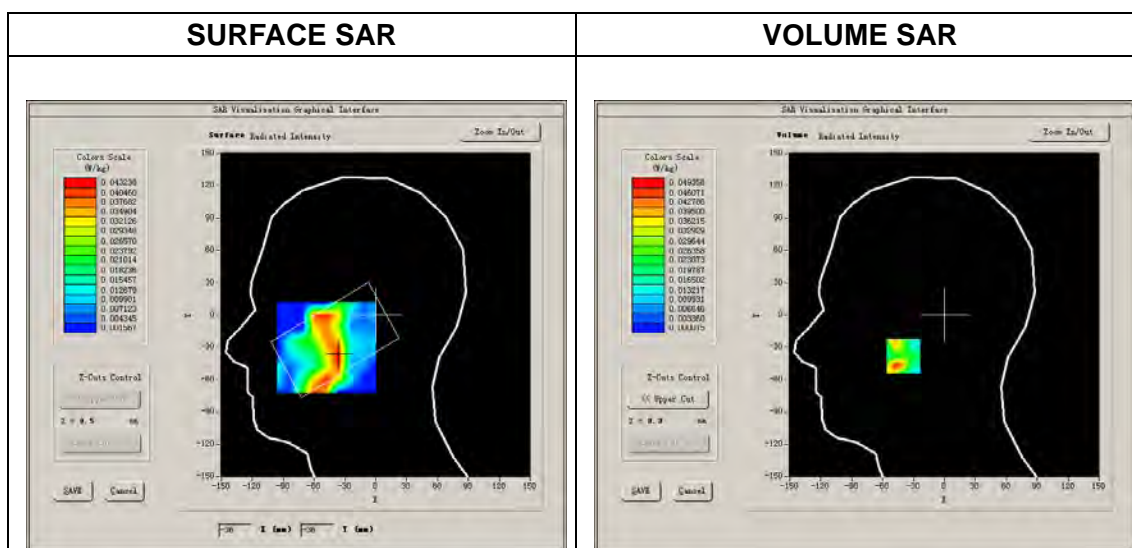
Measurement duration: 13 minutes 51 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>GSM1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 698):

Frequency (MHz)	1747.400024
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.21
Crest factor:	1:8

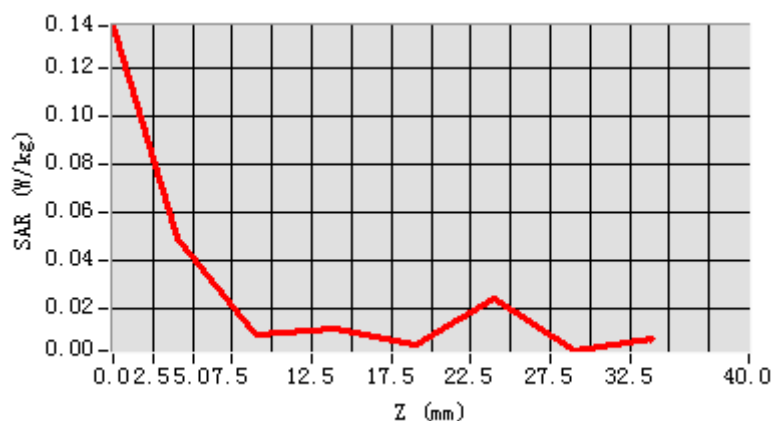




Maximum location: X=-38.00, Y=-38.00
 REPORT No. : SZ17080130S02
 SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.021674
SAR 1g (W/Kg)	0.046081

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1378	0.0494	0.0091	0.0114	0.0051	0.0240	0.0023



3D screen shot	Hot spot position

**MEASUREMENT 16**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

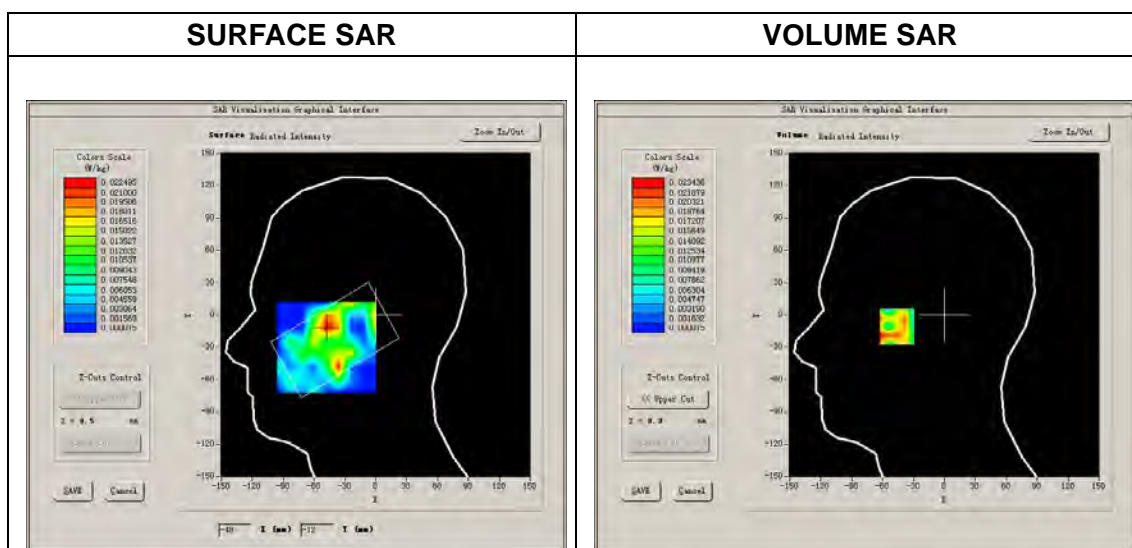
Measurement duration: 13 minutes 45 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>GSM1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 698):

Frequency (MHz)	1747.400024
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.21
Crest factor:	1:8



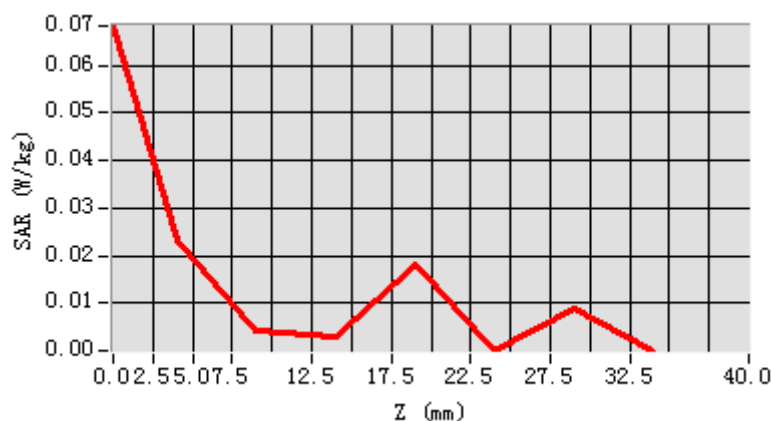


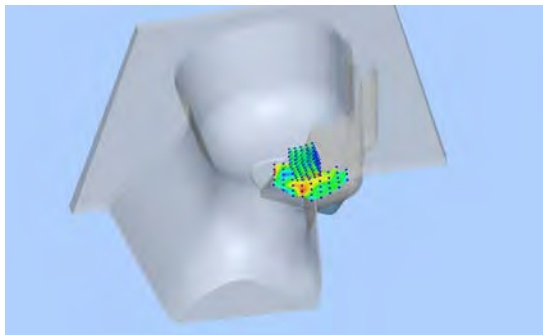
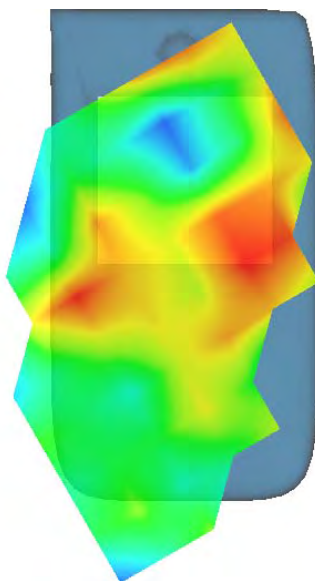
Maximum location: X=-46.00, Y=-9.00
 SAR Peak: 0.07 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.011531
SAR 1g (W/Kg)	0.024887

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0683	0.0234	0.0043	0.0030	0.0180	0.0001	0.0090



3D screen shot	Hot spot position
	

**MEASUREMENT 17**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

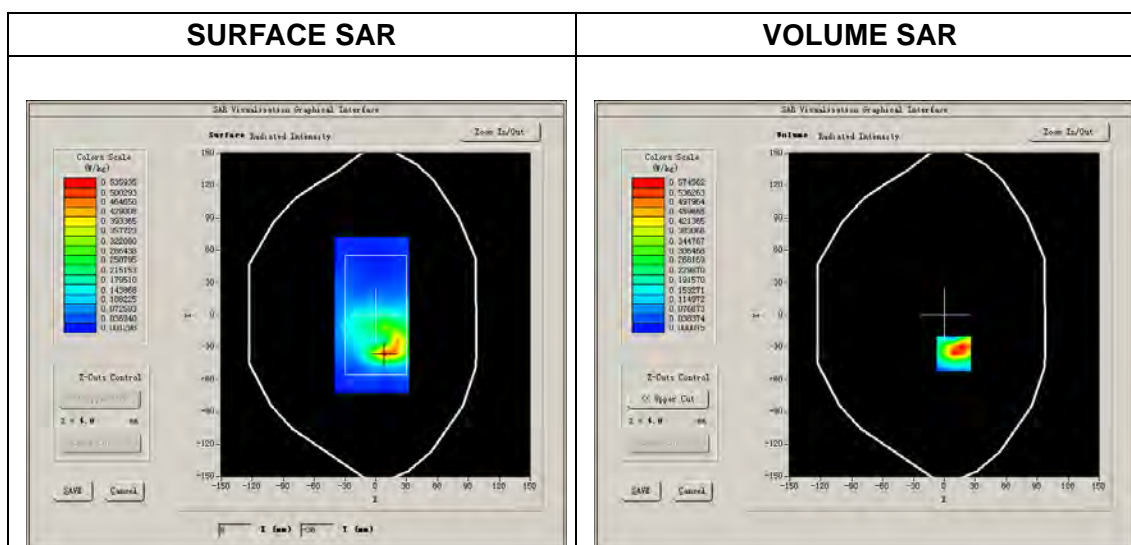
Measurement duration: 13 minutes 45 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 698):

Frequency (MHz)	1747.400024
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.21
Crest factor:	1:8

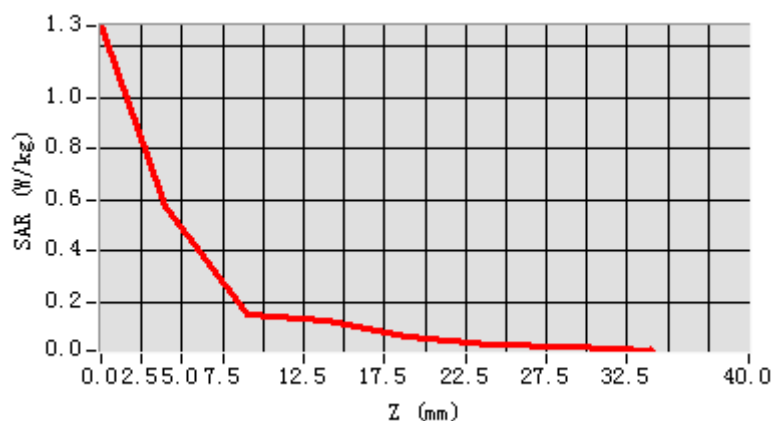


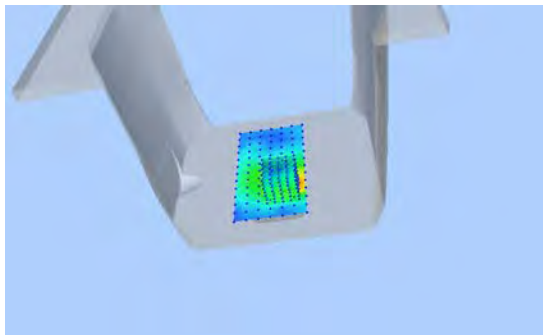
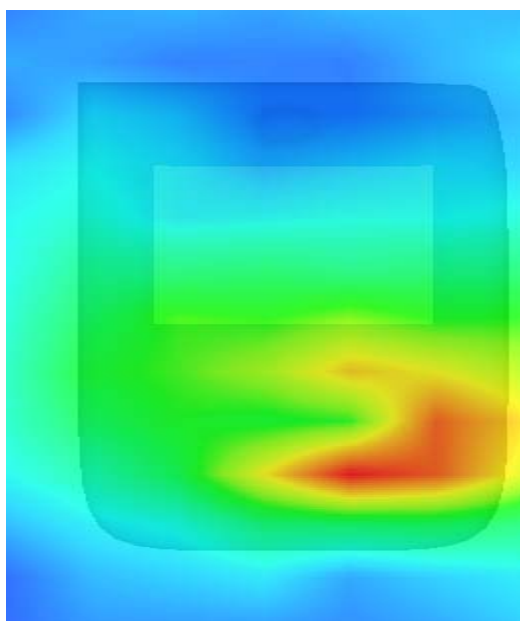


REPORT No. : SZ17080130S02
Maximum location: X=9.00, Y=-36.00
SAR Peak: 1.10 W/kg

SAR 10g (W/Kg)	0.257118
SAR 1g (W/Kg)	0.574899

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2811	0.5746	0.1513	0.1280	0.0617	0.0334	0.0244



3D screen shot	Hot spot position
	

**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: 2017.09.07

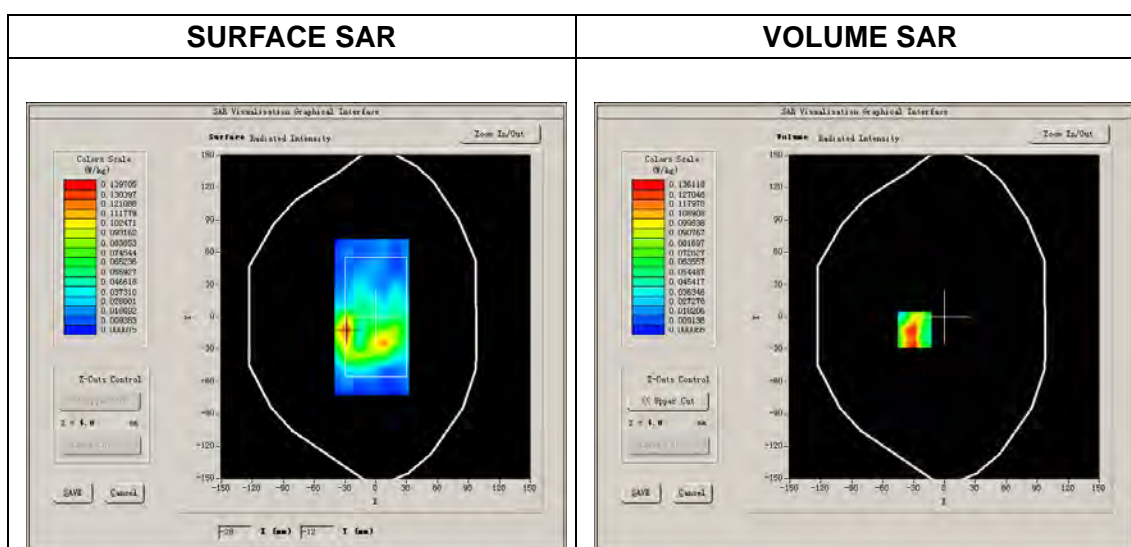
Measurement duration: 13 minutes 51 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1800</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 698):

Frequency (MHz)	1747.400024
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.21
Crest factor:	1:8



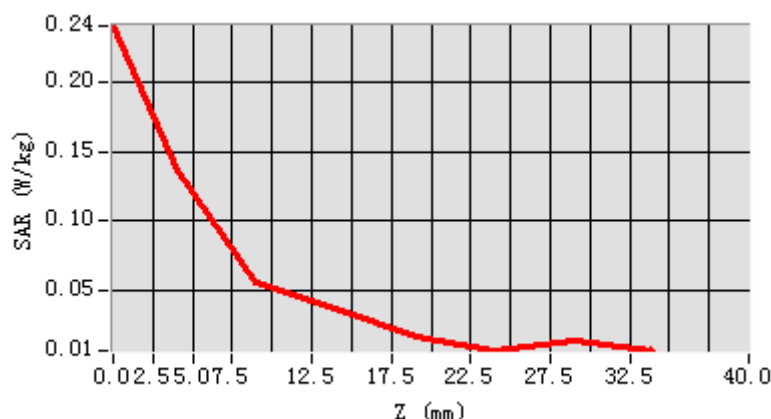


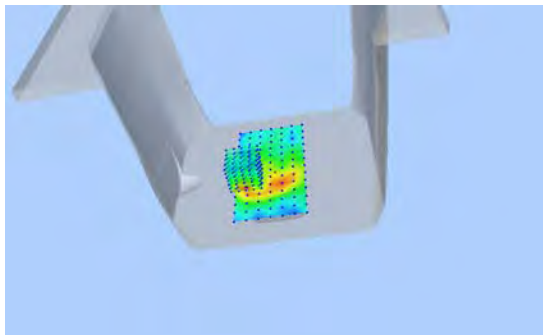
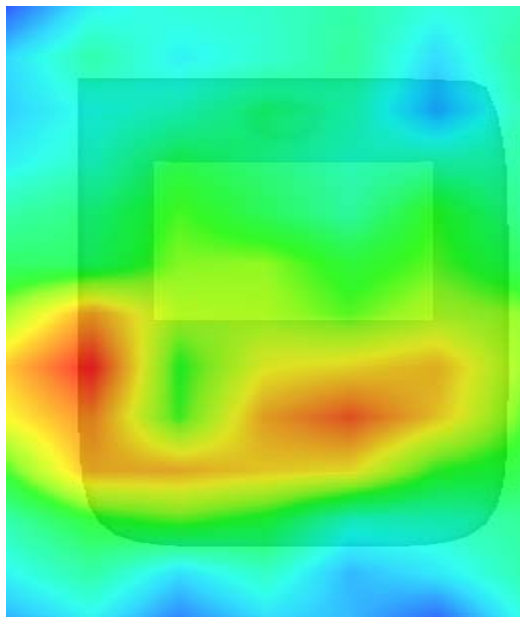
Maximum location: X=-29.00, Y=-12.00 REPORT No. : SZ17080130S02

SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.063961
SAR 1g (W/Kg)	0.122879

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2411	0.1361	0.0555	0.0373	0.0159	0.0063	0.0141



3D screen shot	Hot spot position
	



MEASUREMENT 19

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 38 seconds

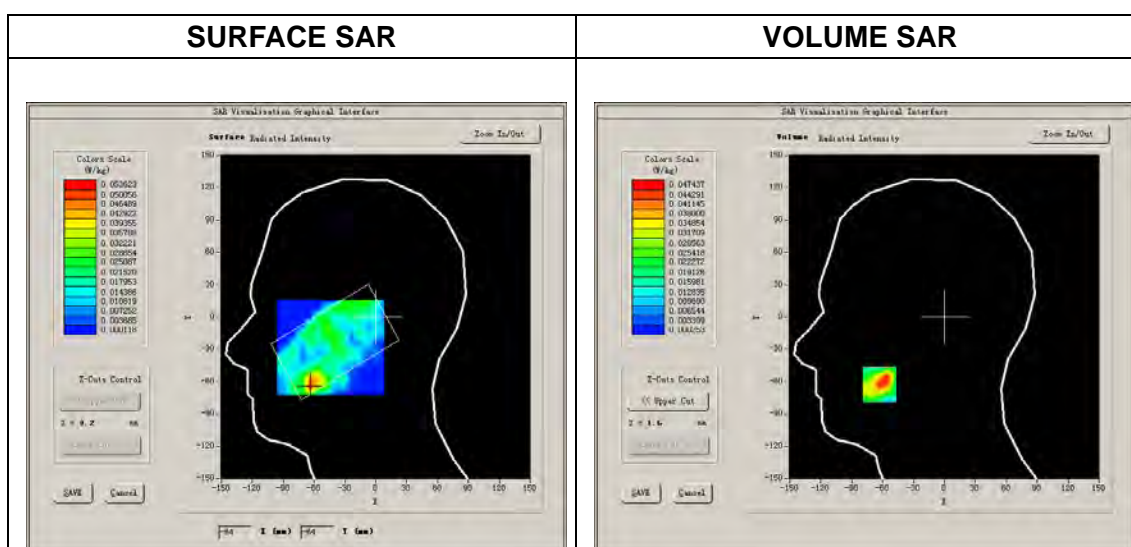
A. Experimental conditions.

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

B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.61
Crest factor:	1:8

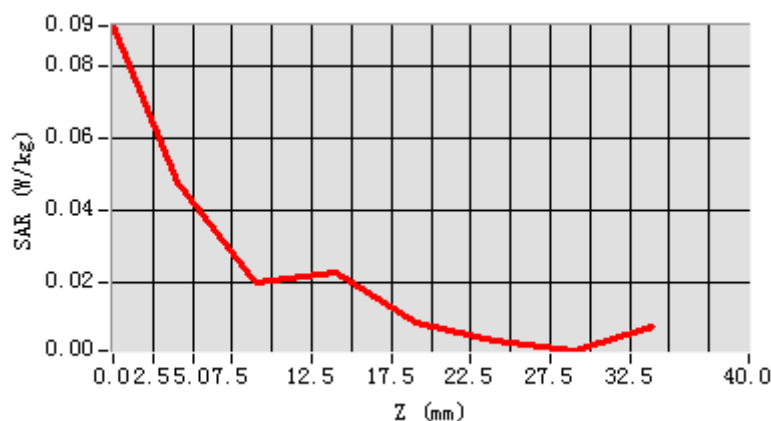


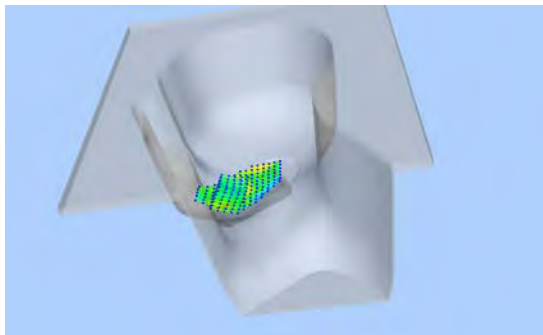
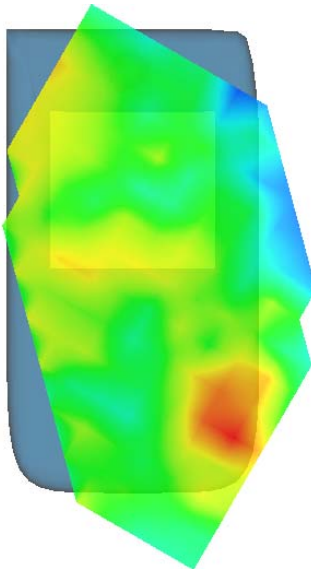


REPORT No. : SZ17080130S02
Maximum location: X=-63.00, Y=-63.00
SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.025105
SAR 1g (W/Kg)	0.052637

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0910	0.0474	0.0200	0.0228	0.0087	0.0040	0.0010



3D screen shot	Hot spot position
	

**MEASUREMENT 20**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

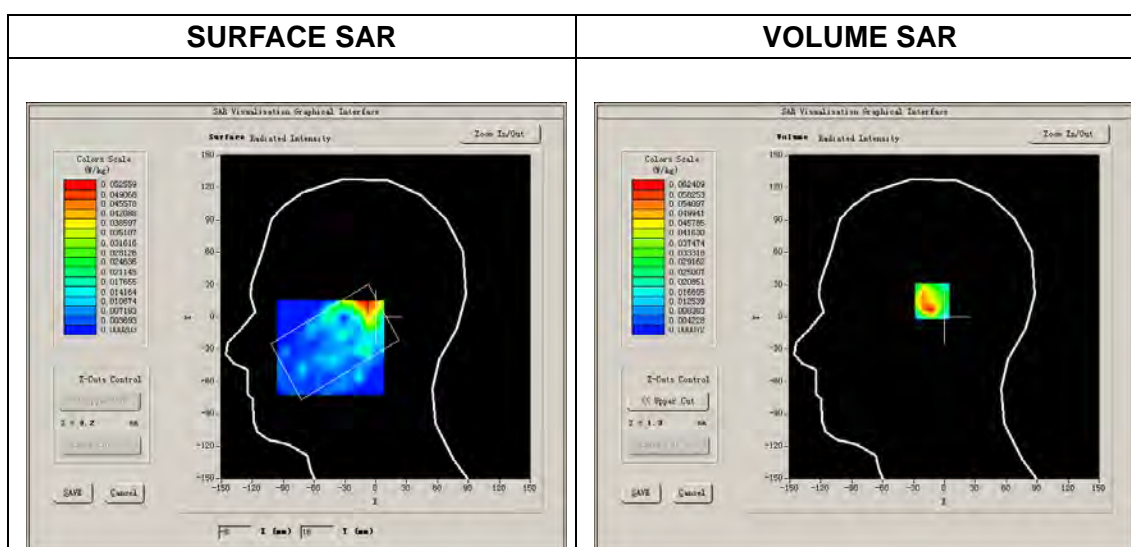
Measurement duration: 13 minutes 48 seconds

A. Experimental conditions.

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

B. SAR Measurement ResultsMiddle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.61
Crest factor:	1:8



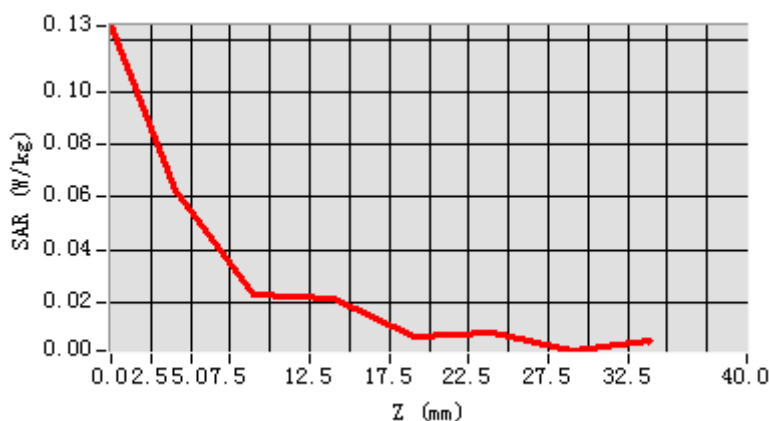


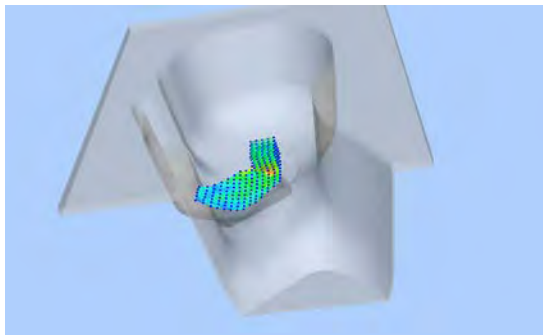
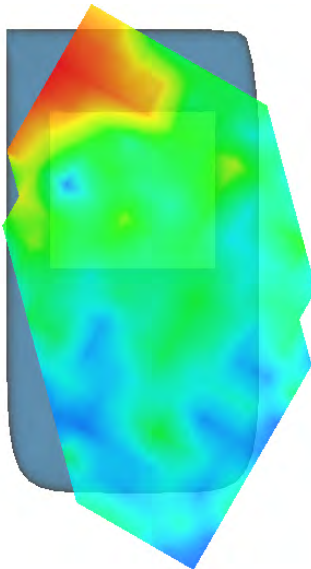
Maximum location: X=-9.00, Y=16.00
 SAR Peak: 0.12 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.029463
SAR 1g (W/Kg)	0.061197

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1253	0.0624	0.0232	0.0210	0.0065	0.0087	0.0015



3D screen shot	Hot spot position
	

**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: 2017.09.07

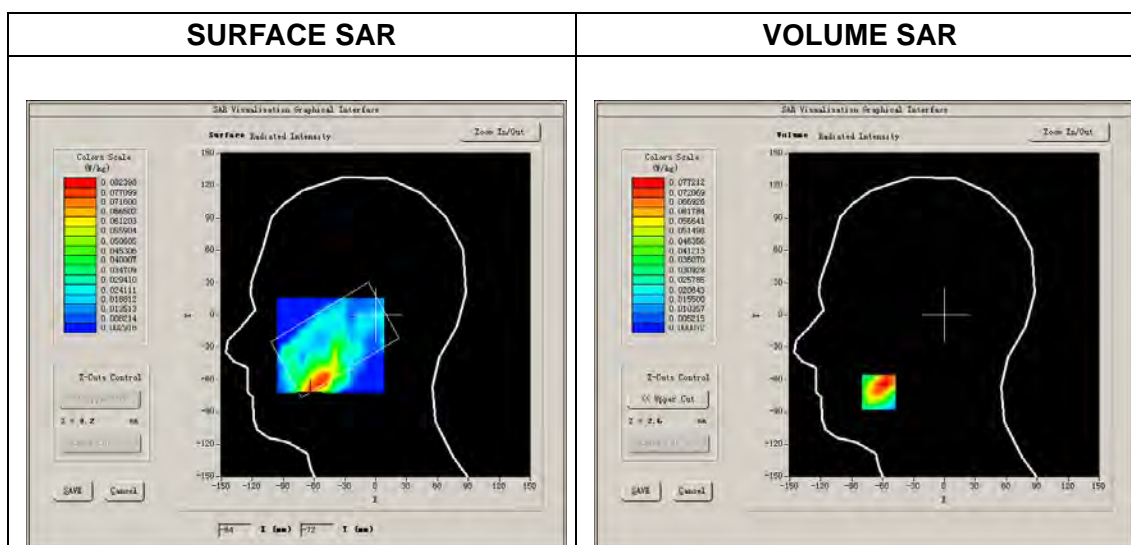
Measurement duration: 13 minutes 21 seconds

A. Experimental conditions.

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

B. SAR Measurement ResultsMiddle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.61
Crest factor:	1:8



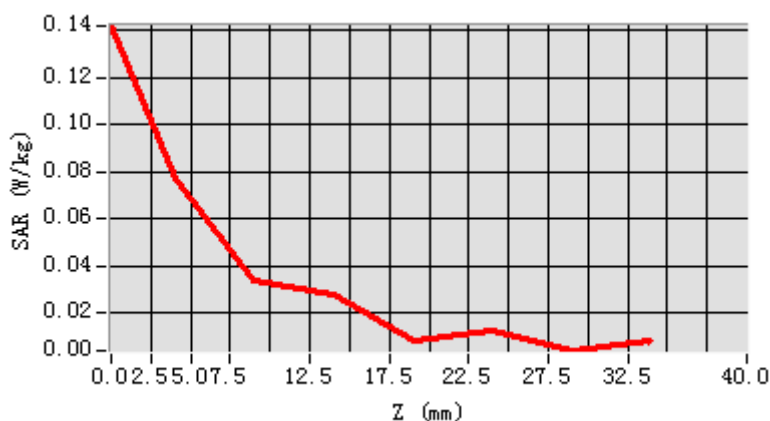


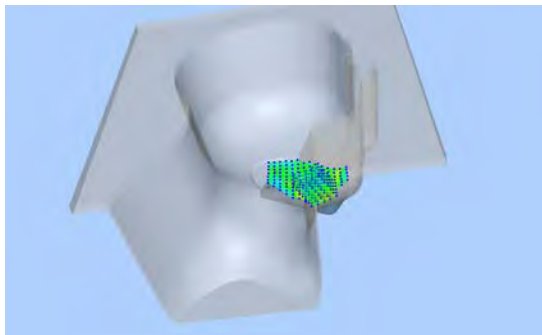
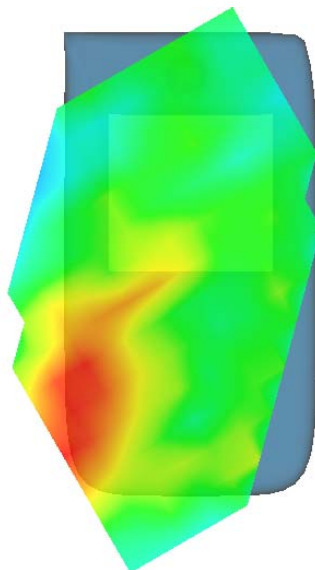
Maximum location: X=-64.00, Y=-72.00 REPORT No. : SZ17080130S02

SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.039778
SAR 1g (W/Kg)	0.072089

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1419	0.0772	0.0334	0.0272	0.0081	0.0125	0.0037



3D screen shot	Hot spot position
	



MEASUREMENT 22

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 42 seconds

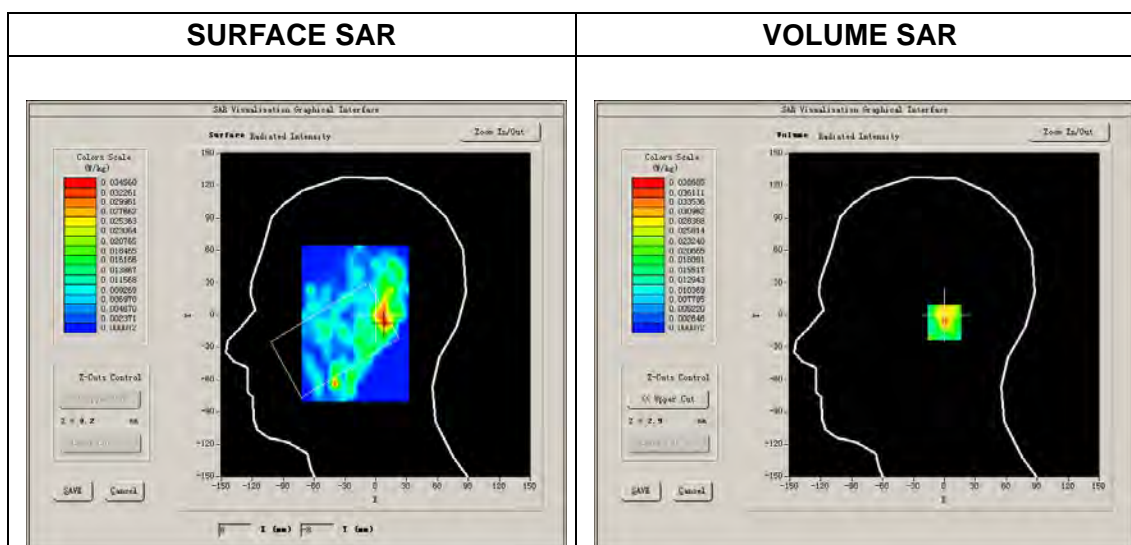
A. Experimental conditions.

<u>Phantom File</u>	<u>zinf5.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.61
Crest factor:	1:8



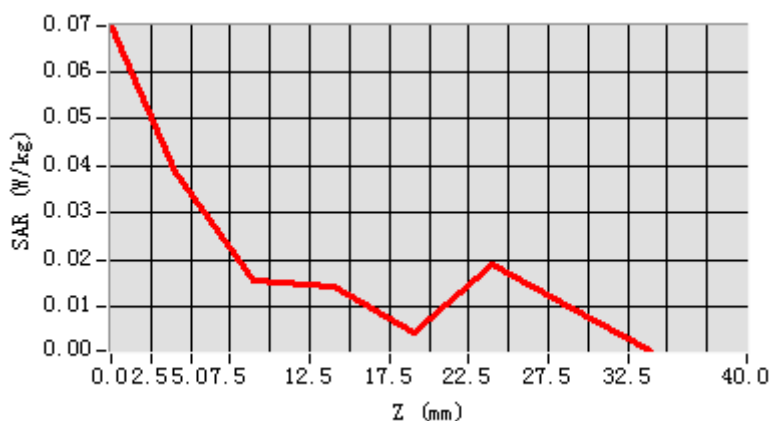


Maximum location: X=9.00, Y=-7.00
 SAR Peak: 0.08 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.017462
SAR 1g (W/Kg)	0.030411

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0698	0.0387	0.0157	0.0143	0.0044	0.0192	0.0097



3D screen shot	Hot spot position

**MEASUREMENT 23**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

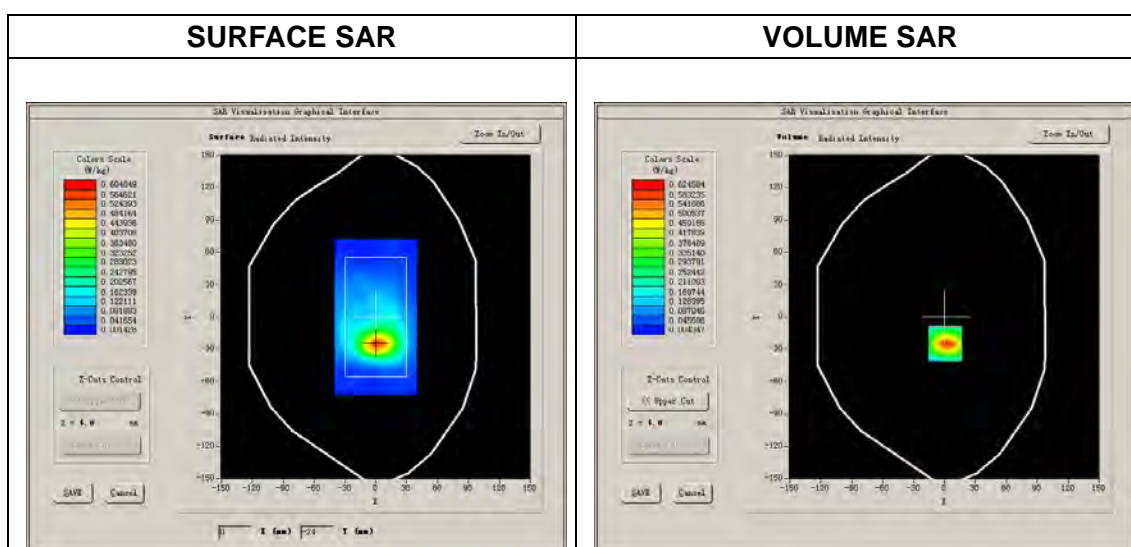
Measurement duration: 13 minutes 24 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.61
Crest factor:	1:8

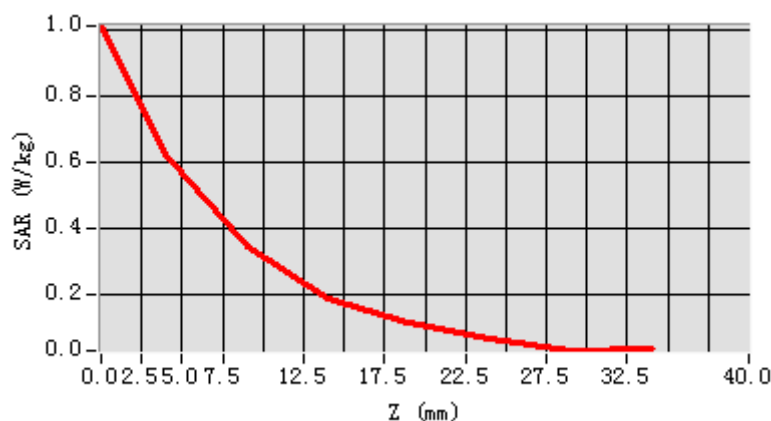


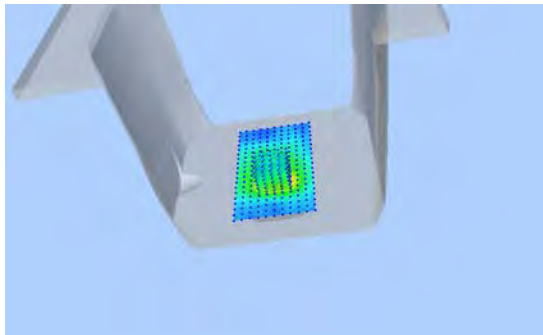
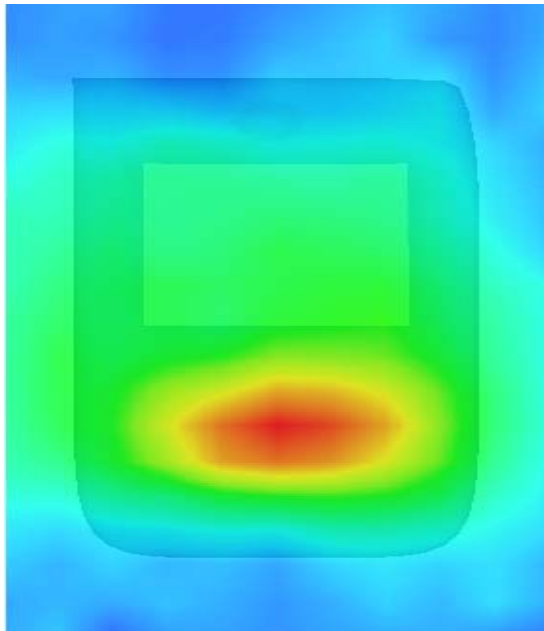


REPORT No. : SZ17080130S02
Maximum location: X=1.00, Y=-25.00
SAR Peak: 1.01 W/kg

SAR 10g (W/Kg)	0.287398
SAR 1g (W/Kg)	0.579697

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0111	0.6246	0.3459	0.1891	0.1180	0.0640	0.0304



3D screen shot	Hot spot position
	

**MEASUREMENT 24**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

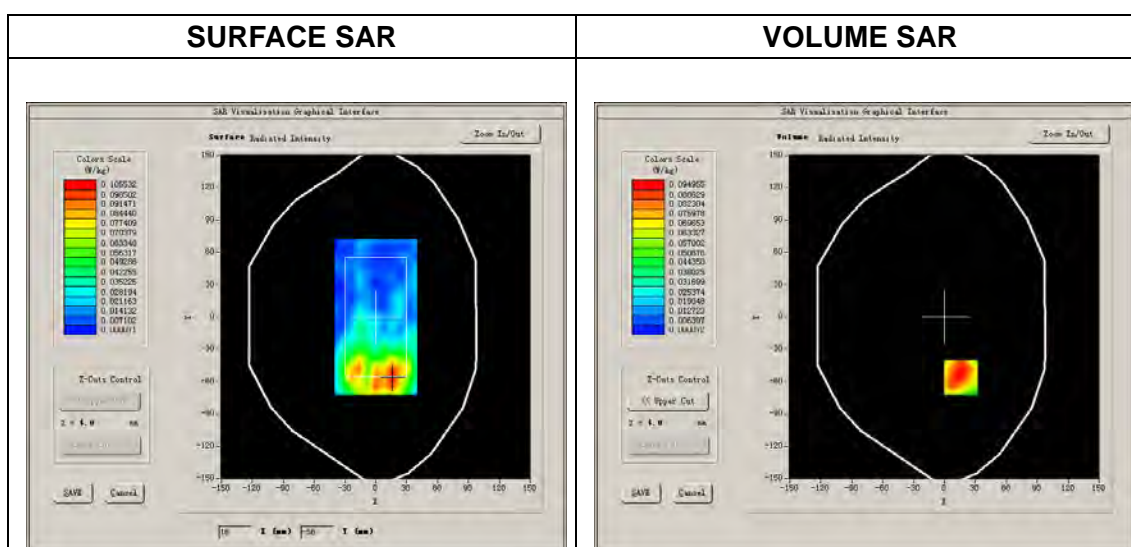
Measurement duration: 13 minutes 25 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GSM</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.61
Crest factor:	1:8





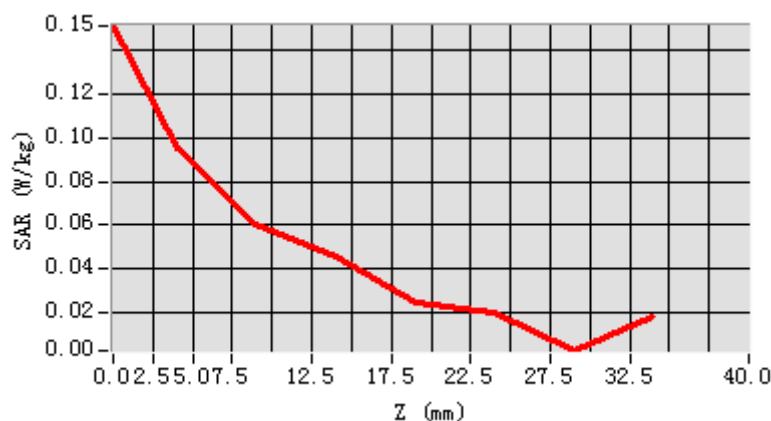
Maximum location: X=16.00, Y=-56.00

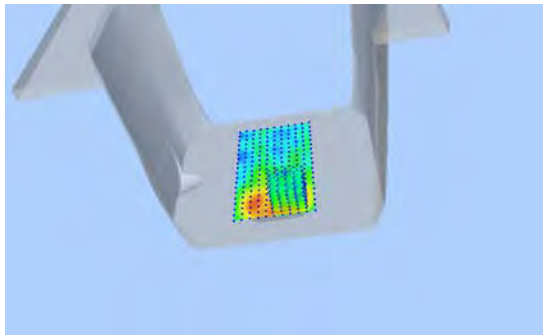
REPORT No. : SZ17080130S02

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.056994
SAR 1g (W/Kg)	0.095989

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1509	0.0950	0.0605	0.0459	0.0247	0.0202	0.0027



3D screen shot	Hot spot position
	

**MEASUREMENT 25**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

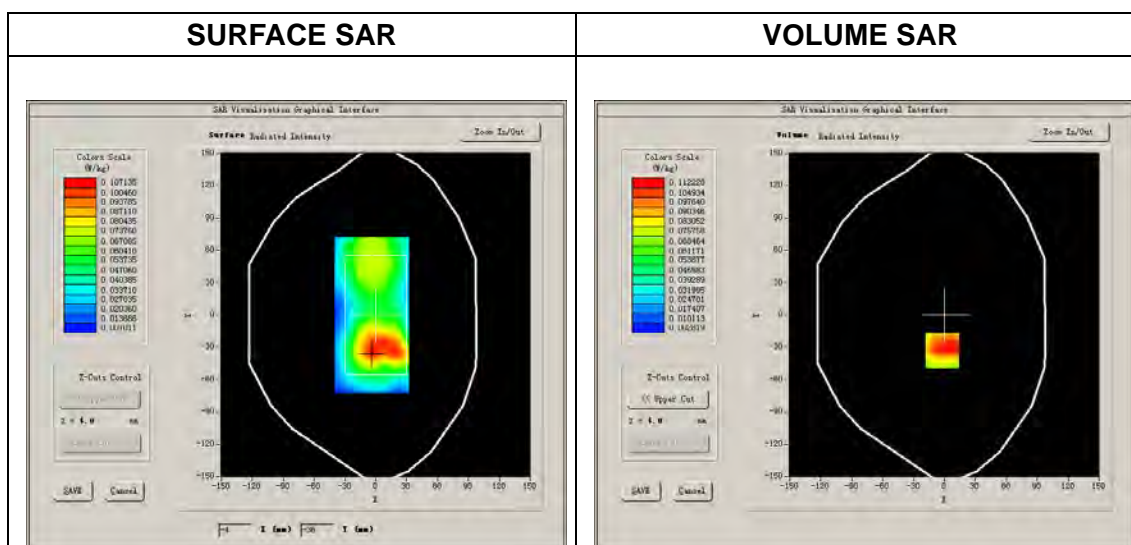
Measurement duration: 13 minutes 49 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS900 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GPRS</u>

B. SAR Measurement Results

Frequency (MHz)	897.599976
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	1.140000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.11
Crest factor:	1:2



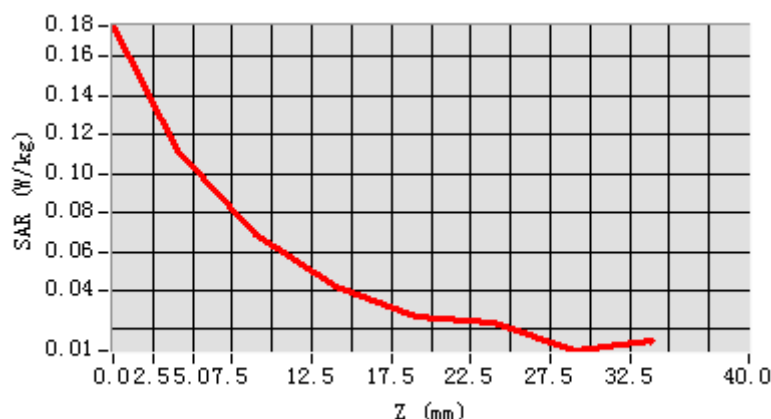


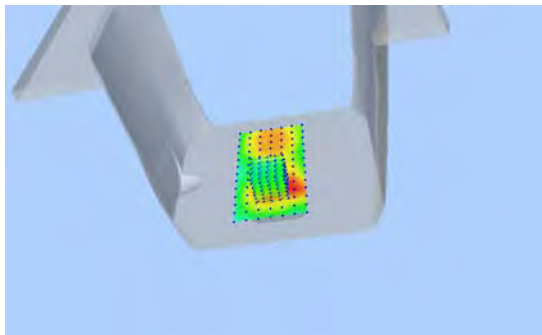
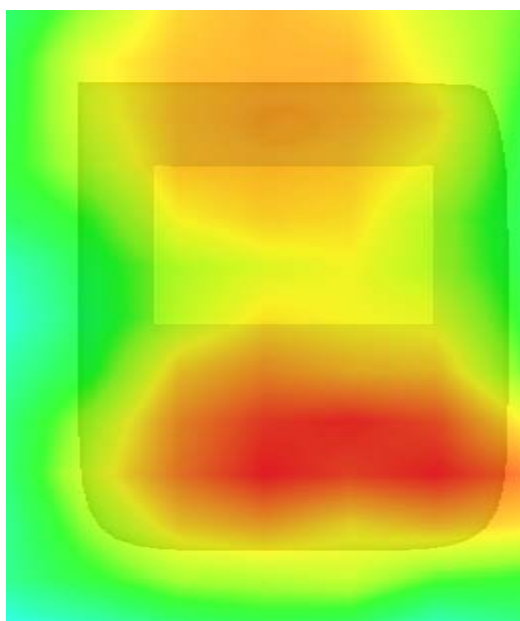
Maximum location: X=-2.00, Y=-33.00
SAR Peak: 0.19 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.066640
SAR 1g (W/Kg)	0.111662

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1758	0.1122	0.0690	0.0420	0.0271	0.0239	0.0092



3D screen shot	Hot spot position
	

**MEASUREMENT 26**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

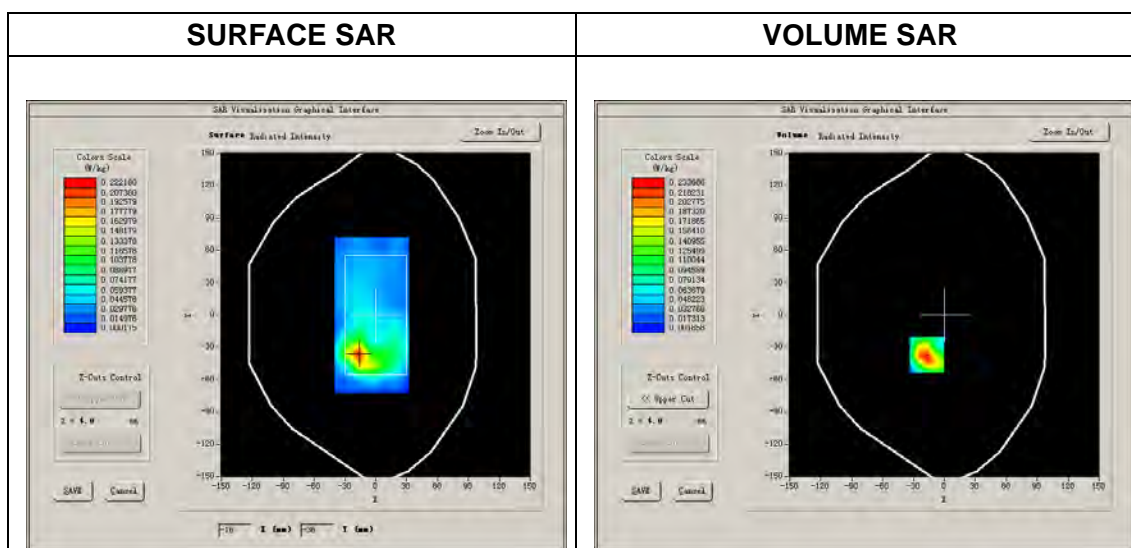
Measurement duration: 13 minutes 48 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS900 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GPRS</u>

B. SAR Measurement Results

Frequency (MHz)	897.599976
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	1.140000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	6.11
Crest factor:	1:2

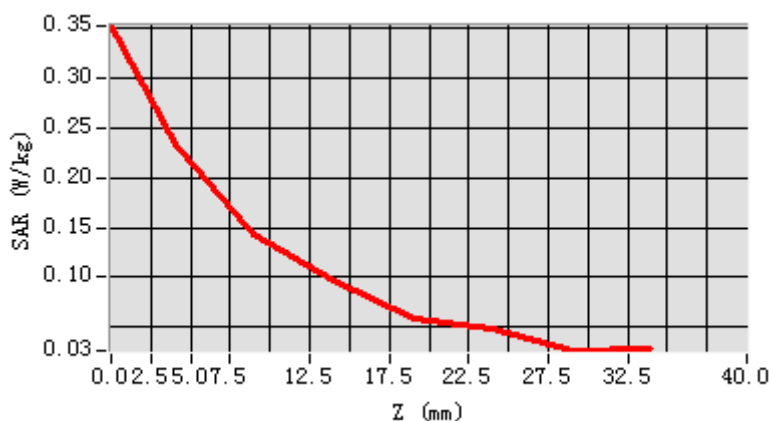


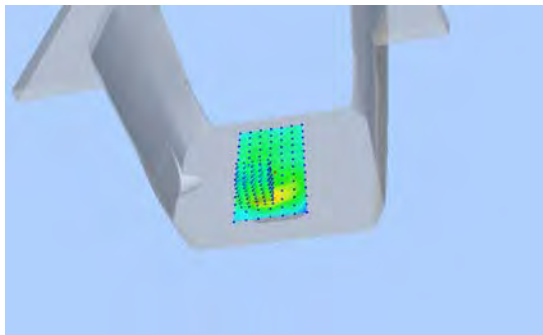
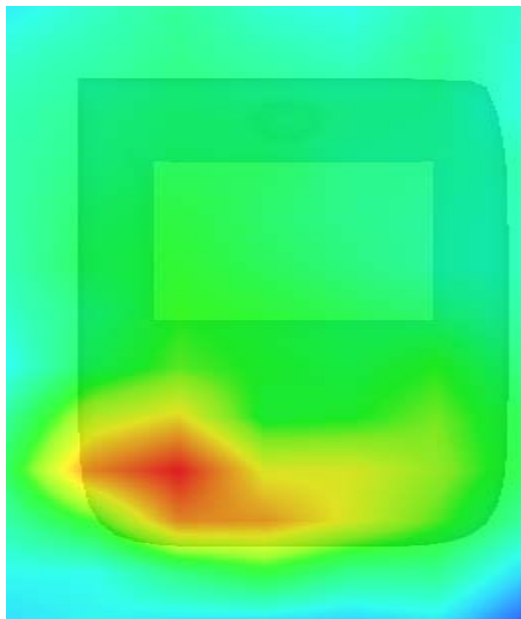


REPORT No. : SZ17080130S02
 Maximum location: X=-17.00, Y=-37.00
 SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.114332
SAR 1g (W/Kg)	0.226861

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3523	0.2337	0.1438	0.0964	0.0588	0.0487	0.0262



3D screen shot	Hot spot position
	

**MEASUREMENT 27**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

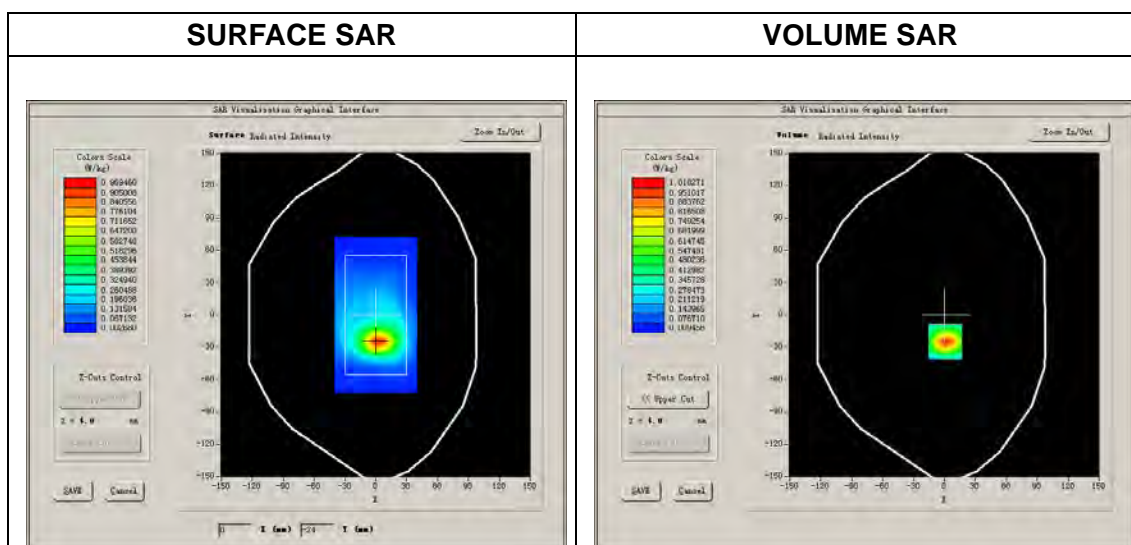
Measurement duration: 13 minutes 25 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS1900 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GPRS</u>

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.61
Crest factor:	1:2

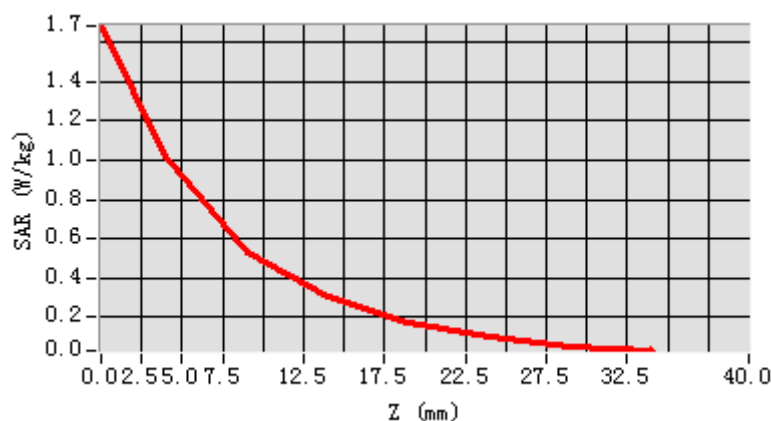


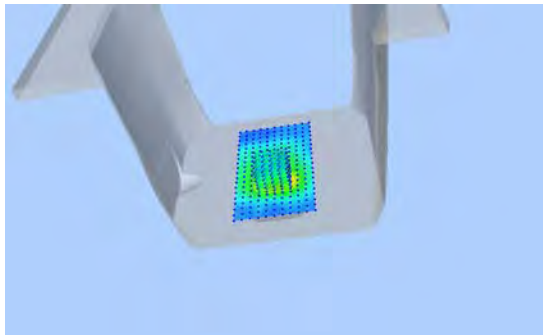
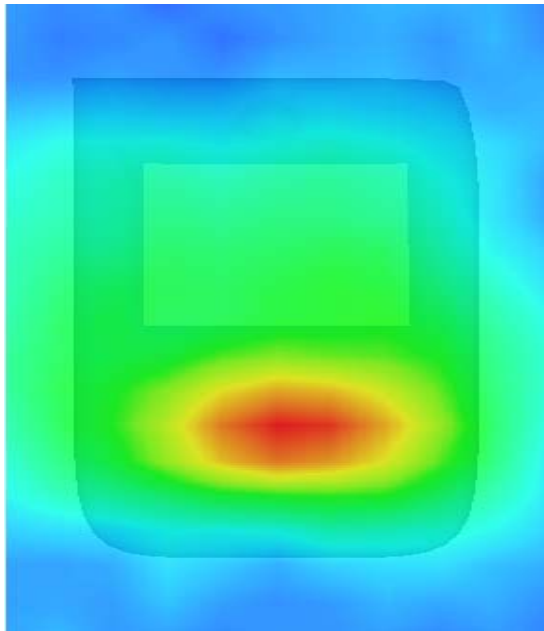


REPORT No. : SZ17080130S02
Maximum location: X=1.00, Y=-25.00
SAR Peak: 1.66 W/kg

SAR 10g (W/Kg)	0.455626
SAR 1g (W/Kg)	0.937865

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.6845	1.0183	0.5270	0.3088	0.1705	0.0980	0.0530



3D screen shot	Hot spot position
	



MEASUREMENT 28

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

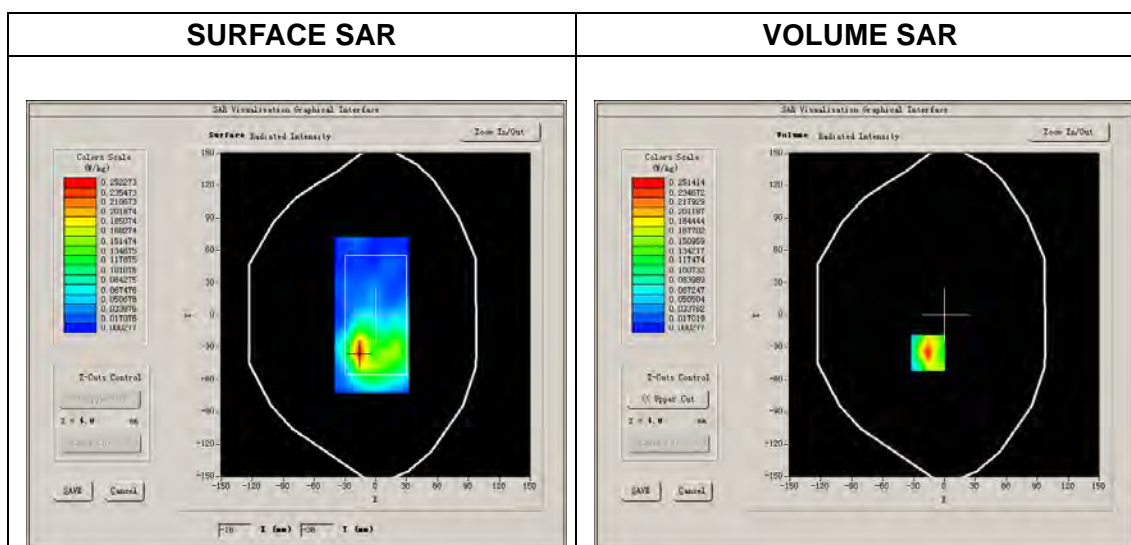
Measurement duration: 13 minutes 50 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS1900 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GPRS</u>

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.61
Crest factor:	1:2

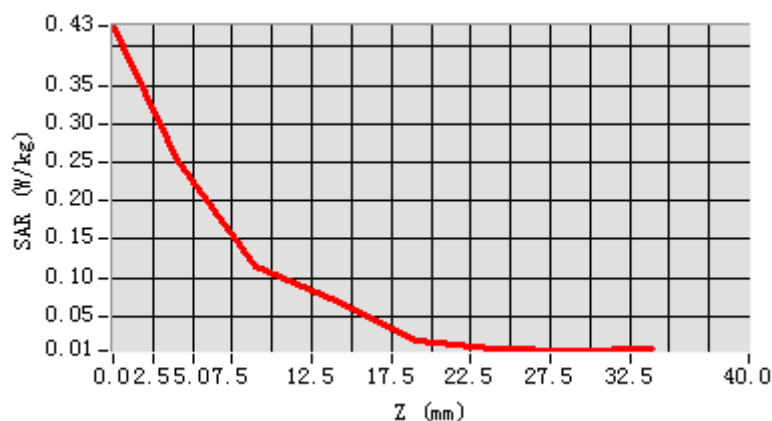


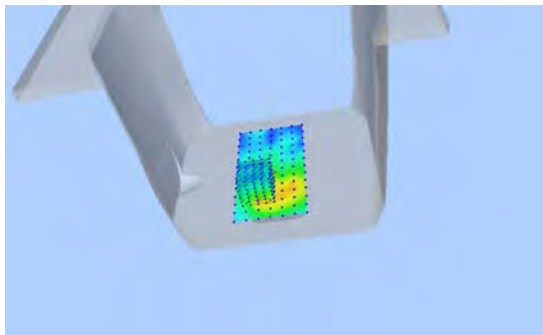
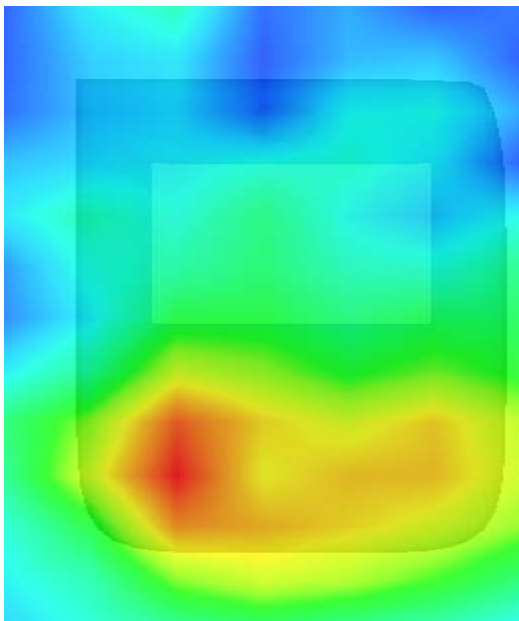


REPORT No. : SZ17080130S02
Maximum location: X=-16.00, Y=-35.00
SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.103063
SAR 1g (W/Kg)	0.227242

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4269	0.2514	0.1136	0.0710	0.0195	0.0081	0.0052



3D screen shot	Hot spot position
	

**MEASUREMENT 29**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

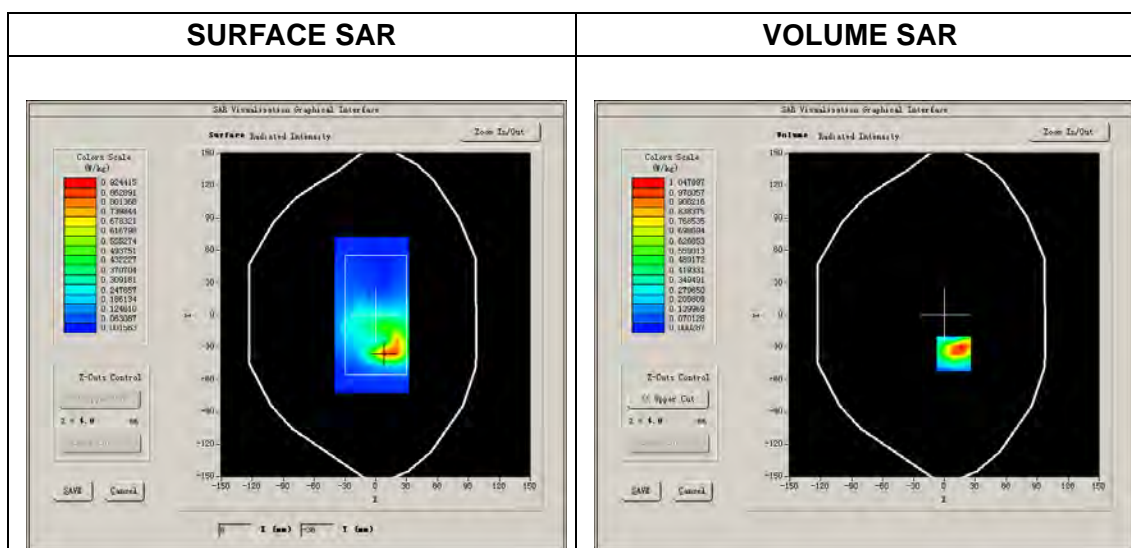
Measurement duration: 13 minutes 49 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS1800 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GPRS</u>

B. SAR Measurement Results

Frequency (MHz)	1747.400024
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.21
Crest factor:	1:2



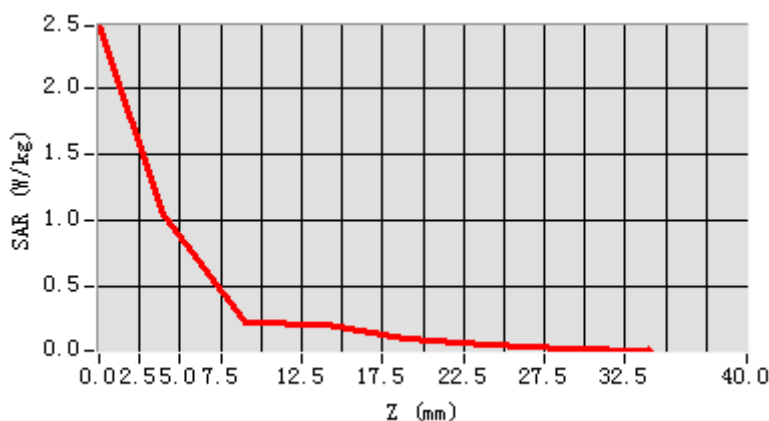


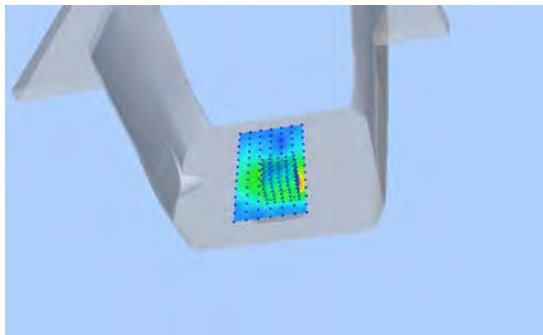
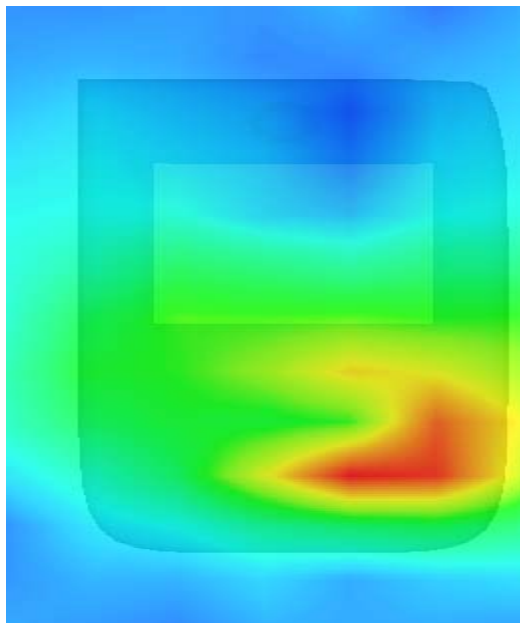
Maximum location: X=9.00, Y=-36.00
 SAR Peak: 2.10 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.449608
SAR 1g (W/Kg)	1.041732

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.4620	1.0479	0.2298	0.2076	0.1012	0.0539	0.0318



3D screen shot	Hot spot position
	

**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: 2017.09.07

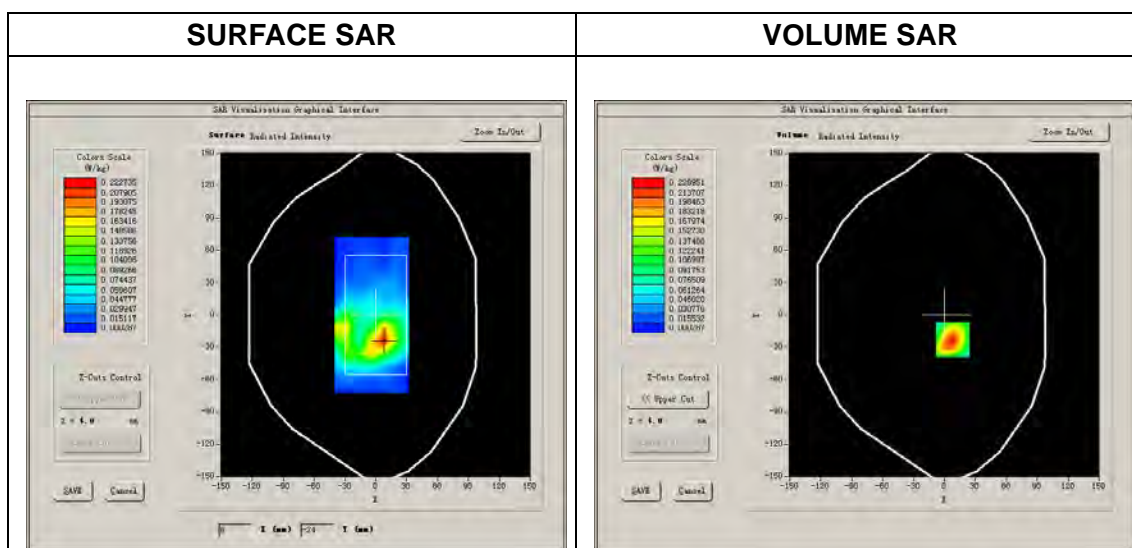
Measurement duration: 13 minutes 50 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>CUSTOM (GPRS1800 4Tx)</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>GPRS</u>

B. SAR Measurement Results

Frequency (MHz)	1747.400024
Relative permittivity (real part)	40.117383
Conductivity (S/m)	1.391079
Power drift (%)	1.660000
Ambient Temperature:	22.2°C
Liquid Temperature:	22.6°C
ConvF:	5.21
Crest factor:	1:2

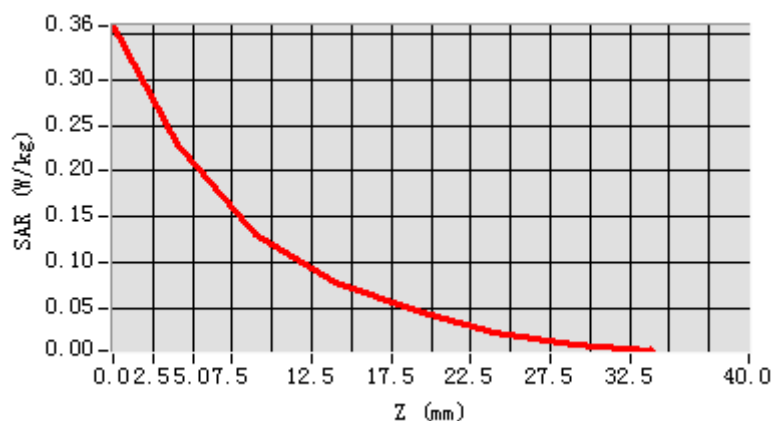


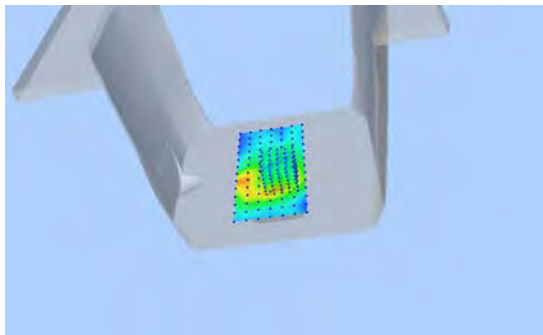
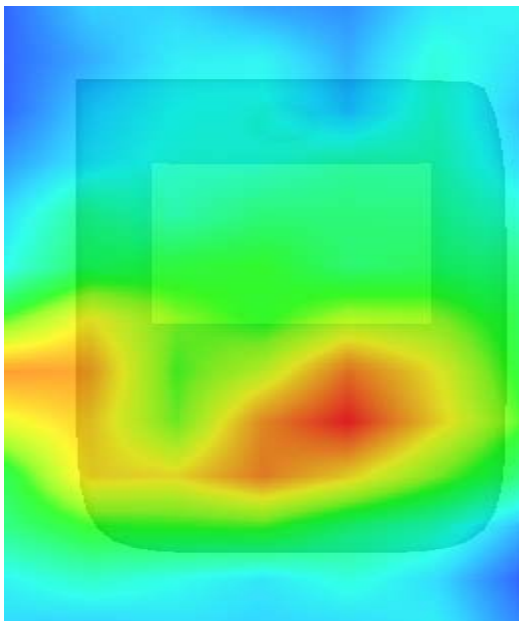


REPORT No. : SZ17080130S02
Maximum location: X=8.00, Y=-23.00
SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.114205
SAR 1g (W/Kg)	0.219077

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3588	0.2290	0.1305	0.0783	0.0464	0.0235	0.0091



3D screen shot	Hot spot position
	

**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: 2017.09.07

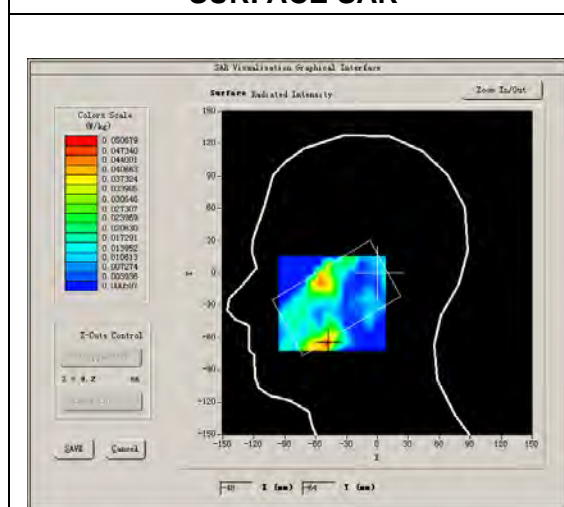
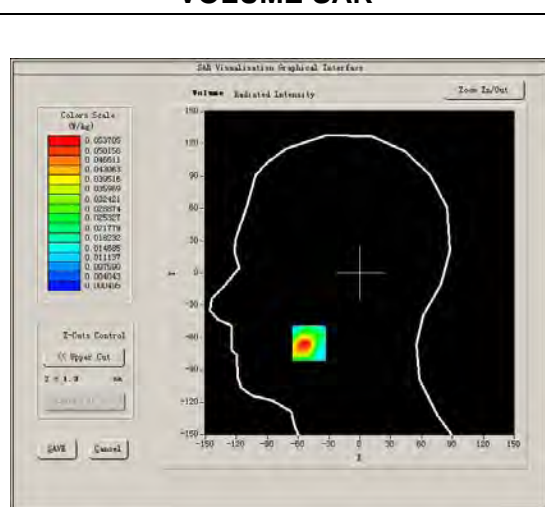
Measurement duration: 13 minutes 3 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band1 UMTS</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 9750):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.996477
Conductivity (S/m)	1.414283
Power drift (%)	3.020000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1

SURFACE SAR**VOLUME SAR**

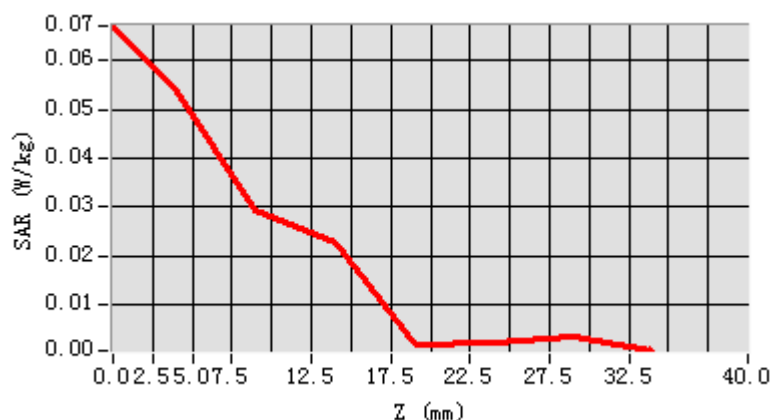


Maximum location: X=-49.00, Y=-65.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.026319
SAR 1g (W/Kg)	0.060173

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0672	0.0537	0.0293	0.0227	0.0018	0.0021	0.0034



3D screen shot	Hot spot position

**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: 2017.09.07

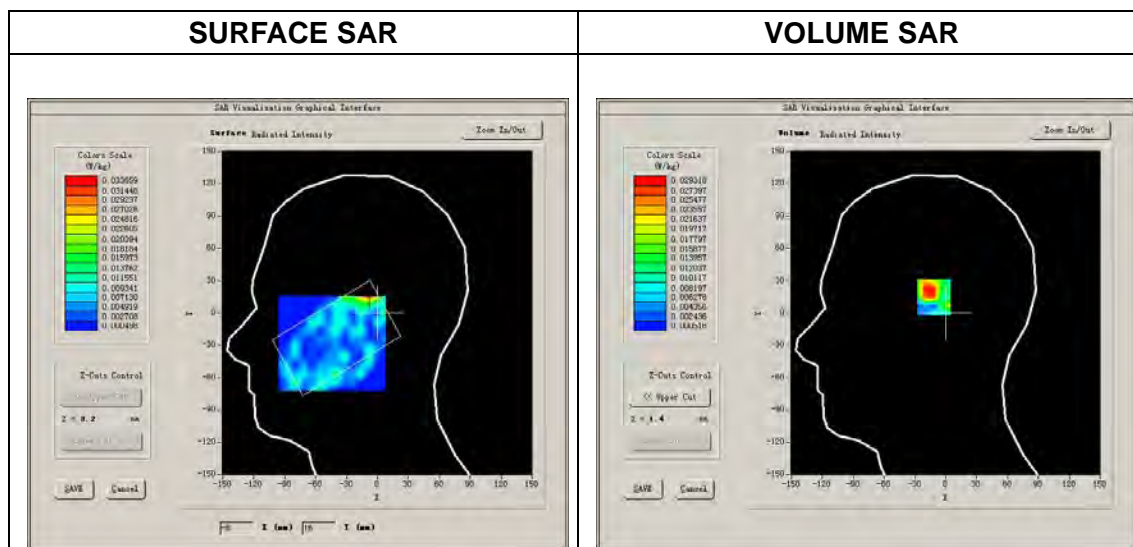
Measurement duration: 13 minutes 50 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>Band1 UMTS</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 9750):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.996477
Conductivity (S/m)	1.414283
Power drift (%)	3.020000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1



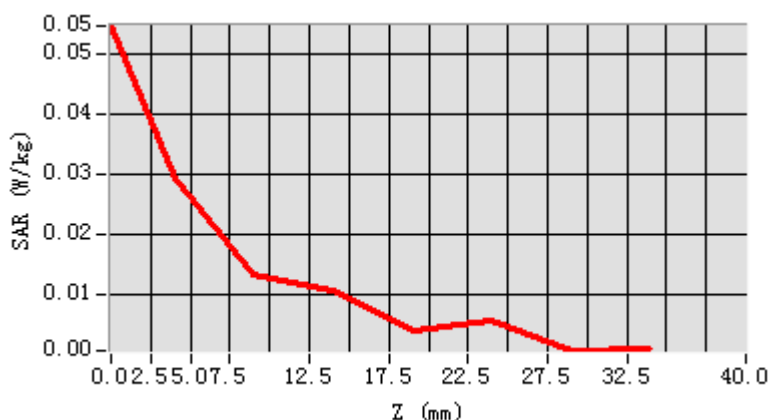


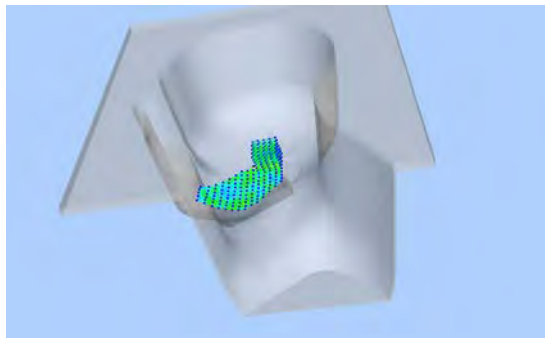
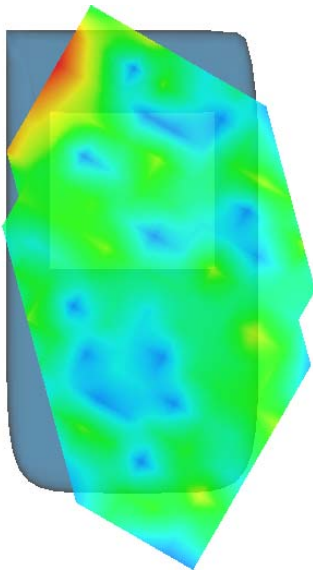
Maximum location: X=-8.00, Y=16.00

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.014778
SAR 1g (W/Kg)	0.032490

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0547	0.0293	0.0132	0.0105	0.0039	0.0056	0.0006



3D screen shot	Hot spot position
	

**MEASUREMENT 33**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

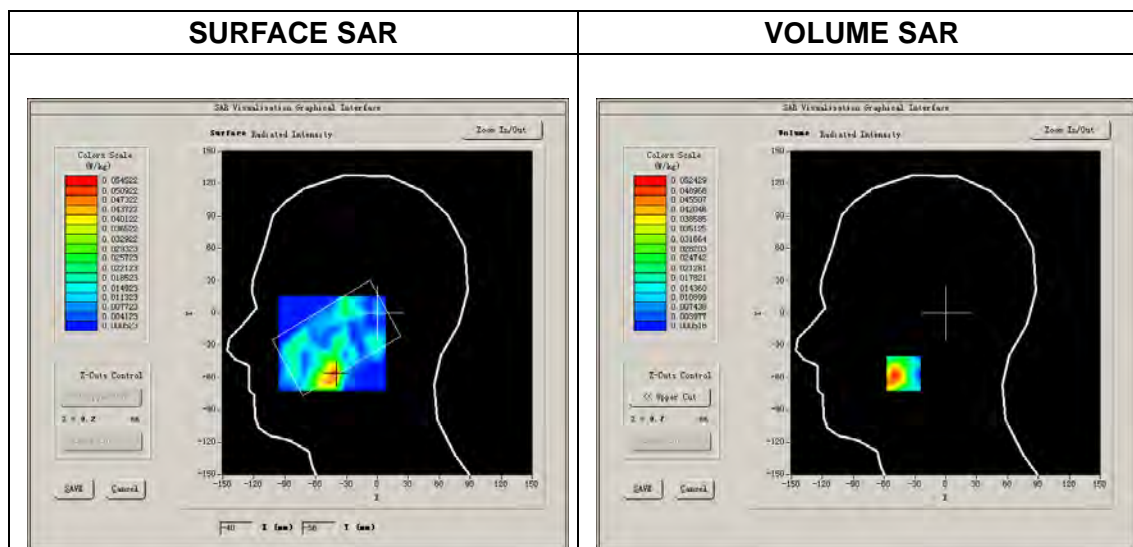
Measurement duration: 13 minutes 35 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band1 UMTS</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 9750):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.996477
Conductivity (S/m)	1.414283
Power drift (%)	3.020000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1

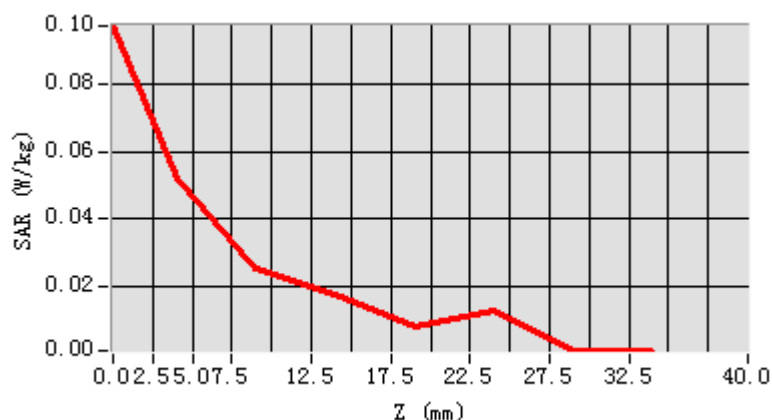


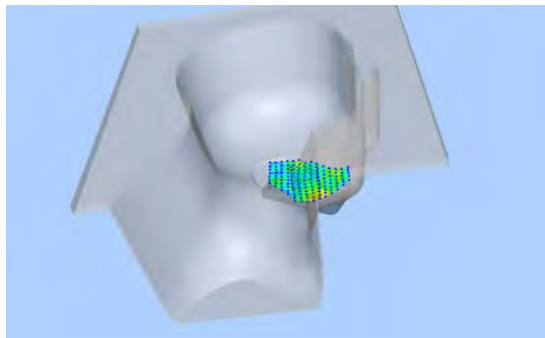
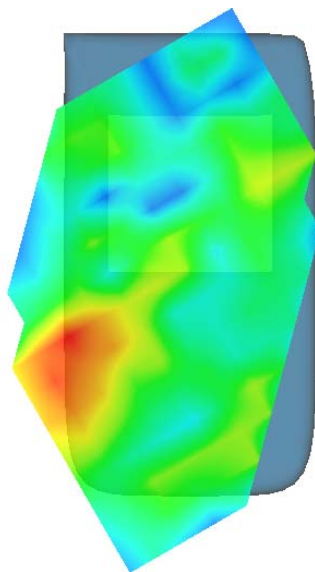
Maximum location: X=-41.00, Y=-56.00

SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.025828
SAR 1g (W/Kg)	0.047718

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0976	0.0524	0.0250	0.0173	0.0077	0.0124	0.0007



3D screen shot	Hot spot position
	



MEASUREMENT 34

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 41 seconds

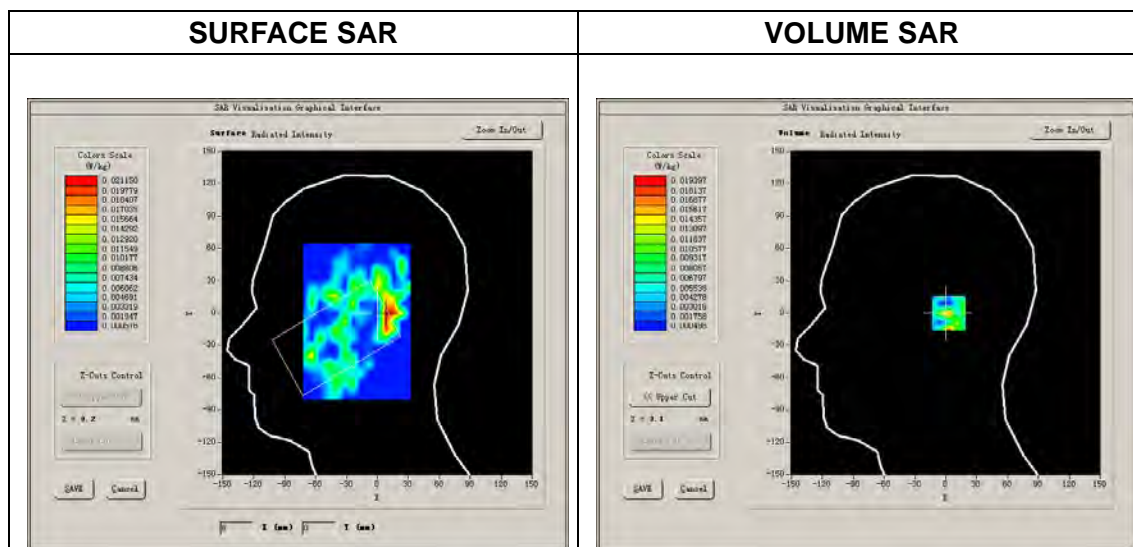
A. Experimental conditions.

<u>Area Scan</u>	<u>zinf5.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>Band1 UMTS</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Middle Band SAR (Channel 9750):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.996477
Conductivity (S/m)	1.414283
Power drift (%)	3.020000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1



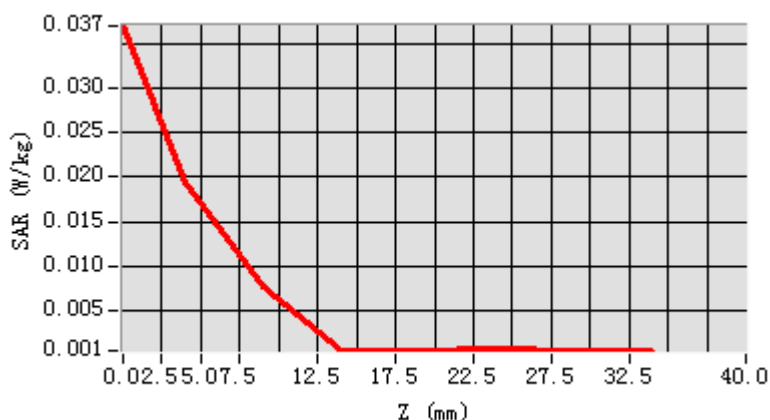


Maximum location: X=11.00, Y=0.00

SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.008043
SAR 1g (W/Kg)	0.011811

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0369	0.0194	0.0076	0.0006	0.0006	0.0006	0.0006



3D screen shot	Hot spot position

**MEASUREMENT 35**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

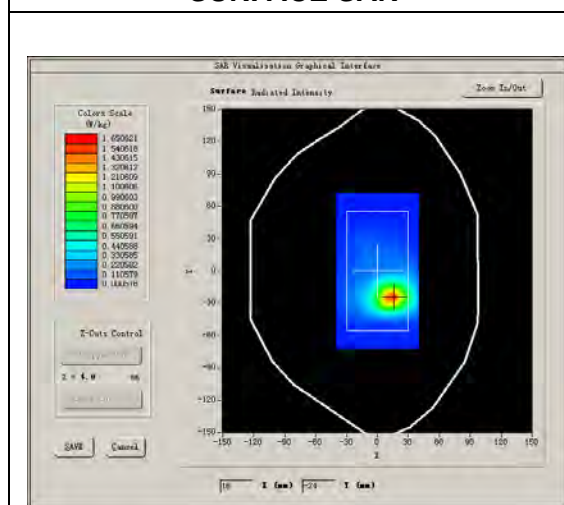
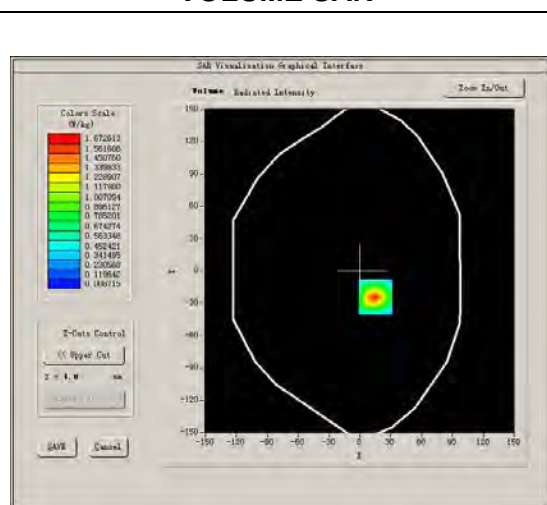
Measurement duration: 13 minutes 20 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band1 UMTS</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 9750):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.996477
Conductivity (S/m)	1.414283
Power drift (%)	3.020000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1

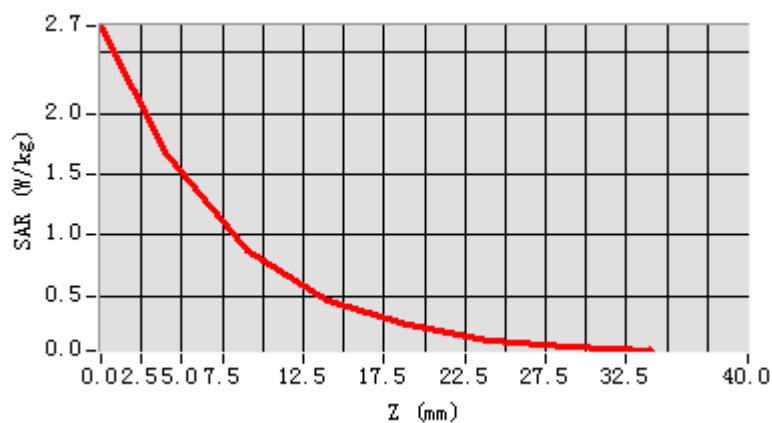
SURFACE SAR**VOLUME SAR**

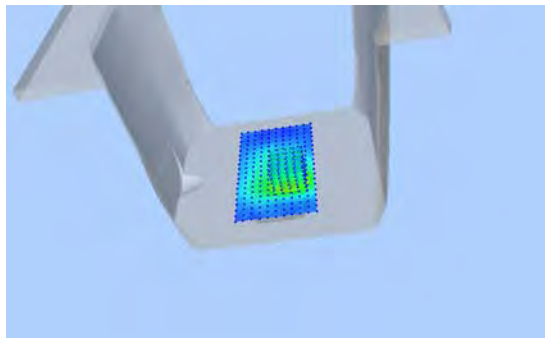
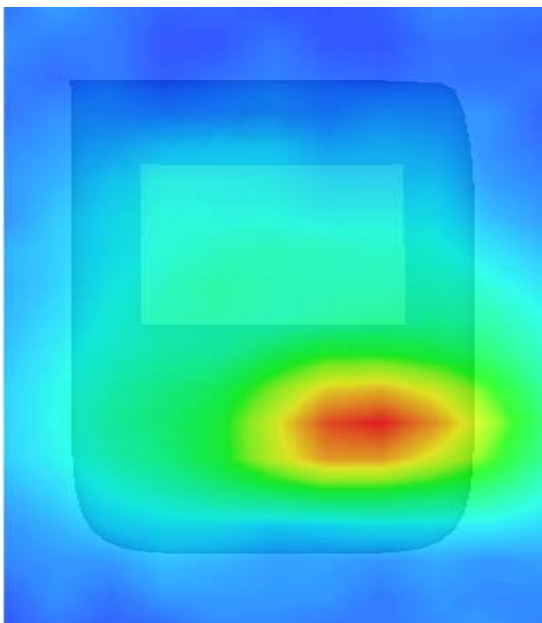
Maximum location: X=15.00, Y=-24.00

SAR Peak: 2.70 W/kg

SAR 10g (W/Kg)	0.706245
SAR 1g (W/Kg)	1.519233

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.7196	1.6726	0.8809	0.4609	0.2574	0.1375	0.0774



3D screen shot	Hot spot position
	

**MEASUREMENT 36**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 26 seconds

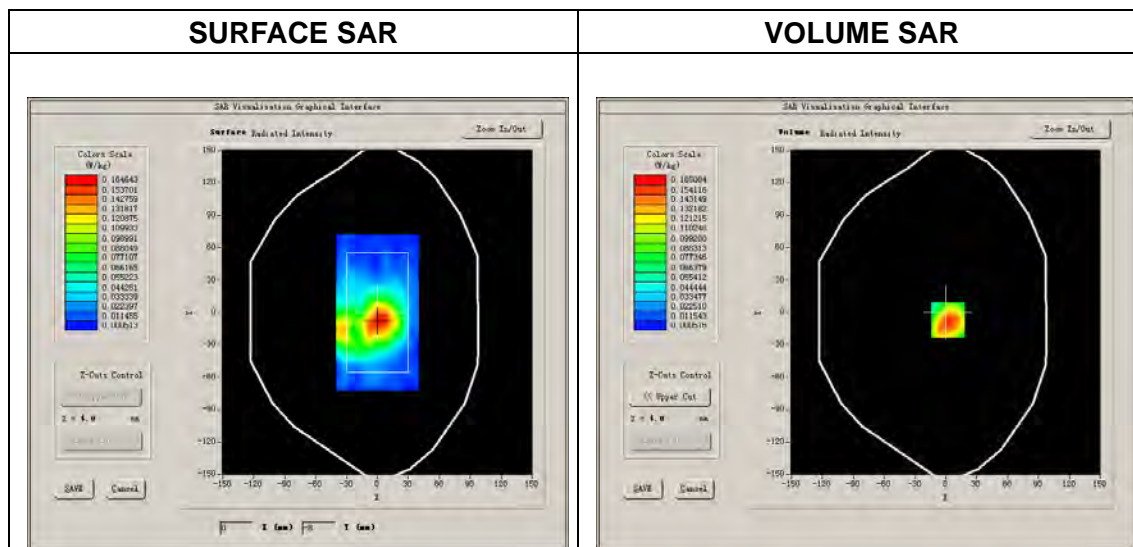
A. Experimental conditions.

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band1 UMTS</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Middle Band SAR (Channel 9750):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.996477
Conductivity (S/m)	1.414283
Power drift (%)	3.020000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1



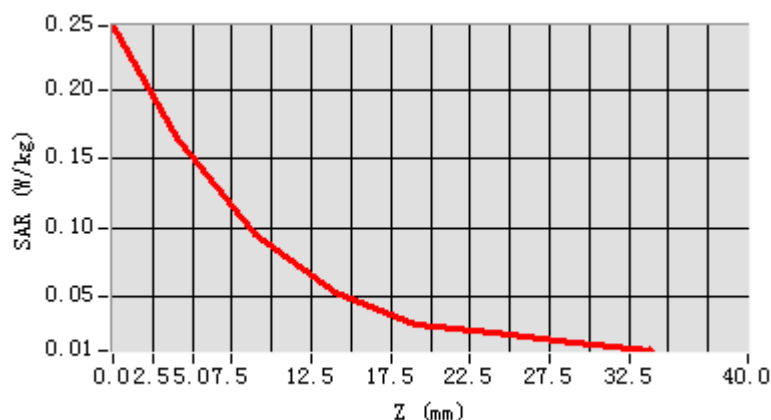


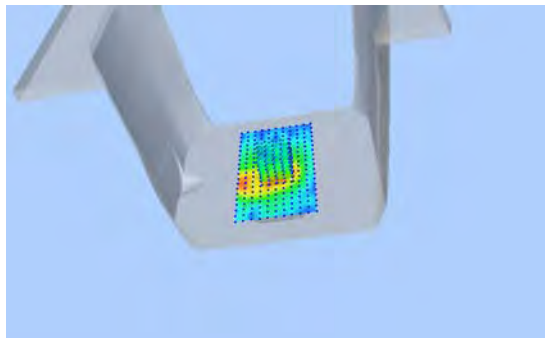
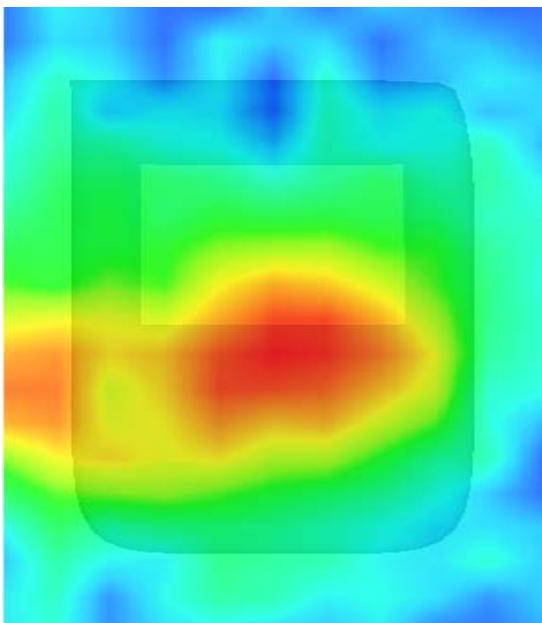
Maximum location: X=2.00, Y=-7.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.084354
SAR 1g (W/Kg)	0.153344

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2467	0.1651	0.0952	0.0534	0.0296	0.0239	0.0166



3D screen shot	Hot spot position
	

**MEASUREMENT 37**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 26 seconds

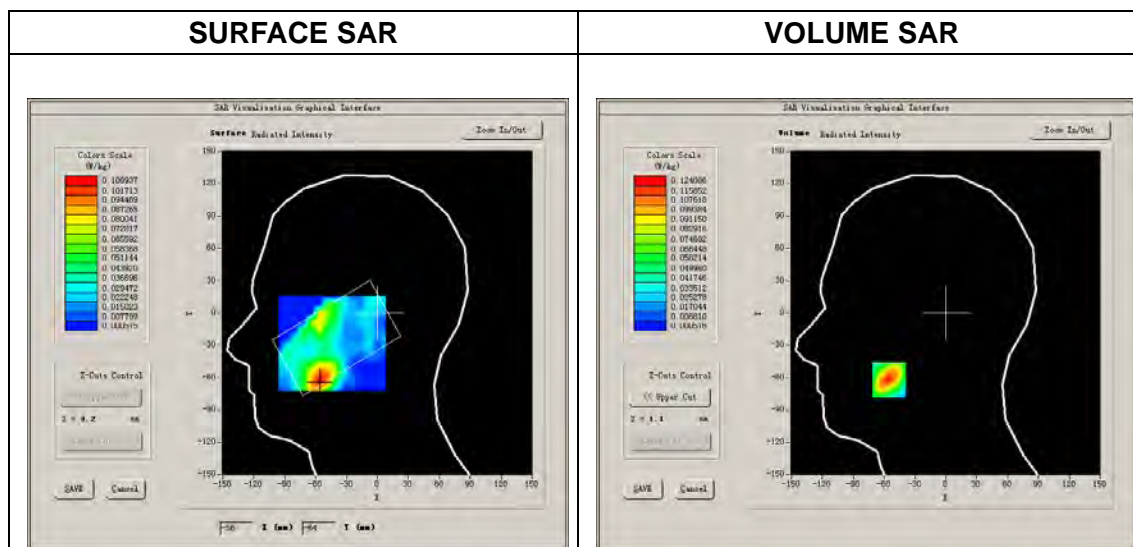
A. Experimental conditions.

<u>Area Scan</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band2_WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Conductivity (S/m)	1.400391
Power drift (%)	-38.299999
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1



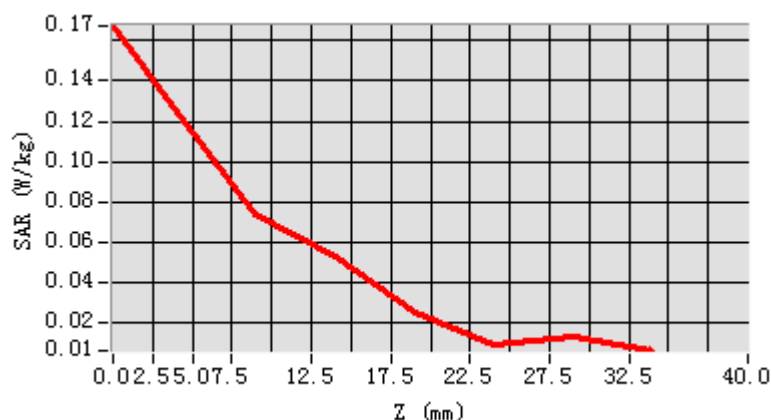


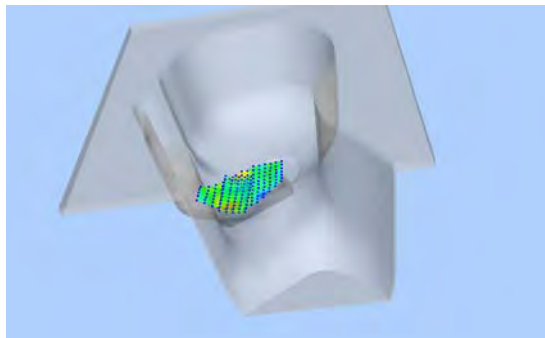
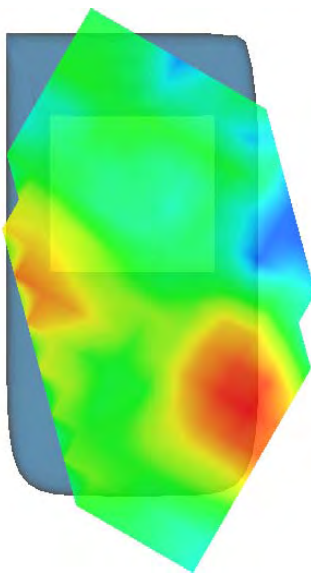
Maximum location: X=-55.00, Y=-62.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.060945
SAR 1g (W/Kg)	0.112607

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1674	0.1241	0.0736	0.0529	0.0245	0.0091	0.0134



3D screen shot	Hot spot position
	

**MEASUREMENT 38**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 44 seconds

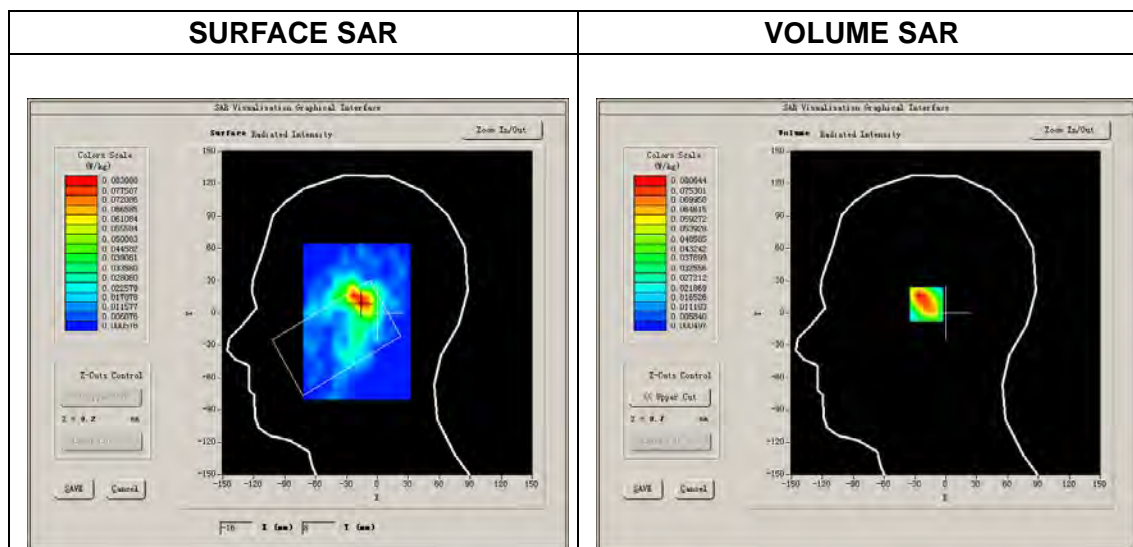
A. Experimental conditions.

<u>Area Scan</u>	<u>zinf5.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>Band2_WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Conductivity (S/m)	1.400391
Power drift (%)	-38.299999
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1



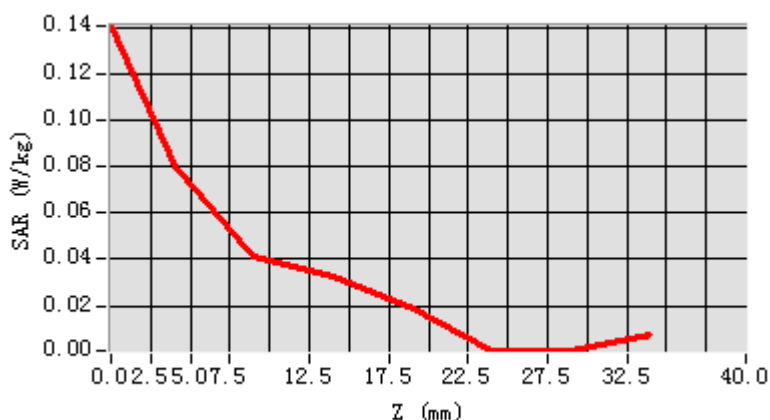


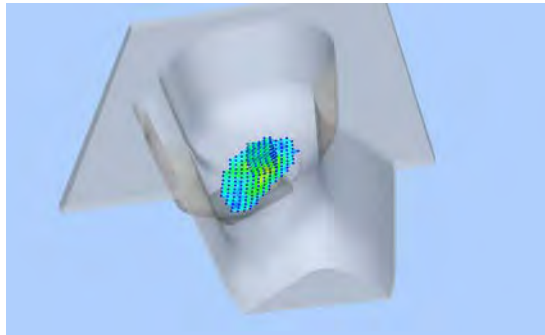
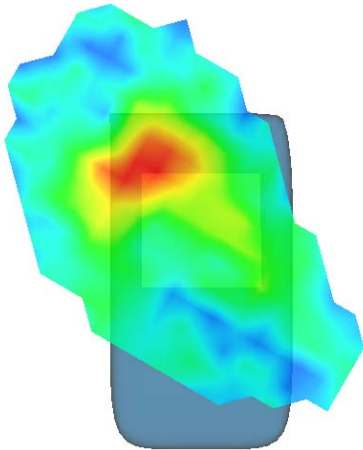
Maximum location: X=-15.00, Y=9.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.040278
SAR 1g (W/Kg)	0.075724

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1409	0.0806	0.0412	0.0322	0.0188	0.0005	0.0006



3D screen shot	Hot spot position
	



MEASUREMENT 39

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 7 seconds

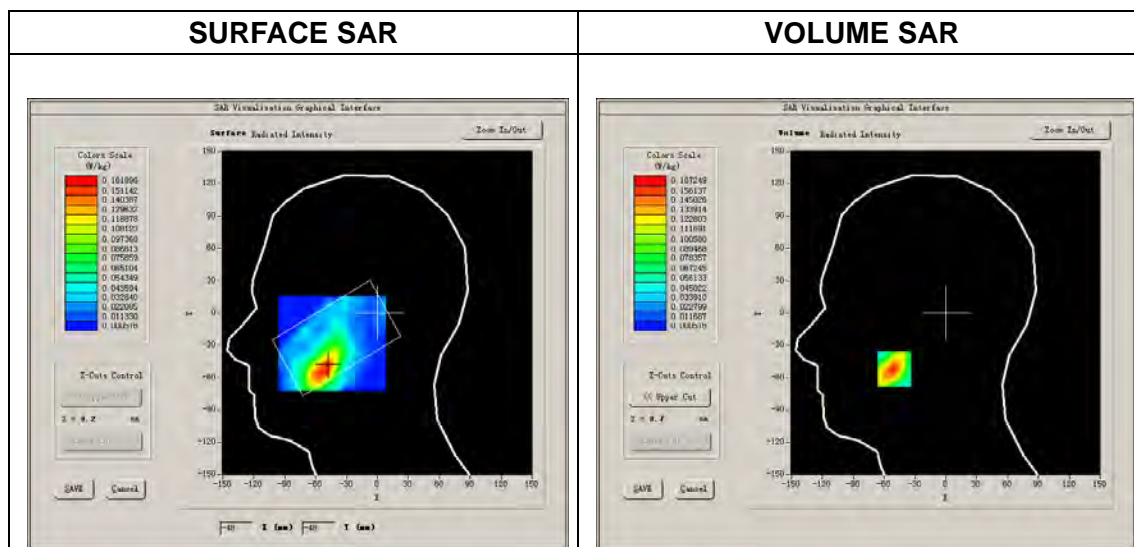
A. Experimental conditions.

<u>Area Scan</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band2_WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Conductivity (S/m)	1.400391
Power drift (%)	-38.299999
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1



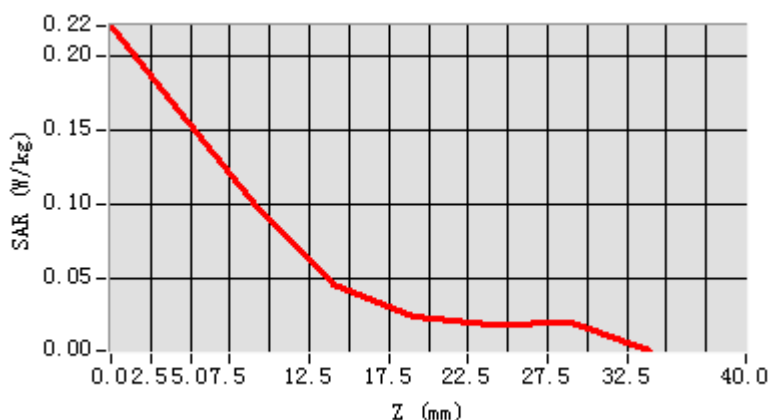


Maximum location: X=-50.00, Y=-52.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.080053
SAR 1g (W/Kg)	0.147924

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2208	0.1672	0.1015	0.0465	0.0252	0.0193	0.0204



3D screen shot	Hot spot position

**MEASUREMENT 40**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 15 seconds

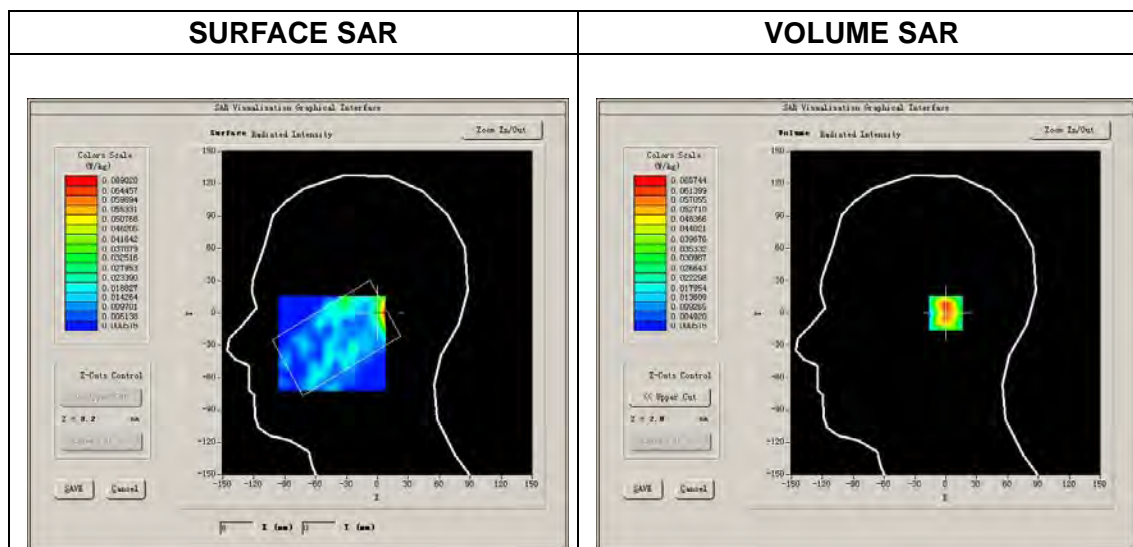
A. Experimental conditions.

<u>Area Scan</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>Band2_WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Conductivity (S/m)	1.400391
Power drift (%)	-38.299999
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1



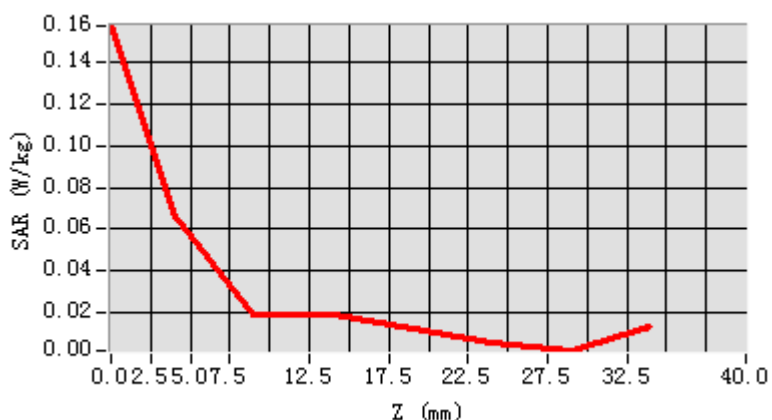


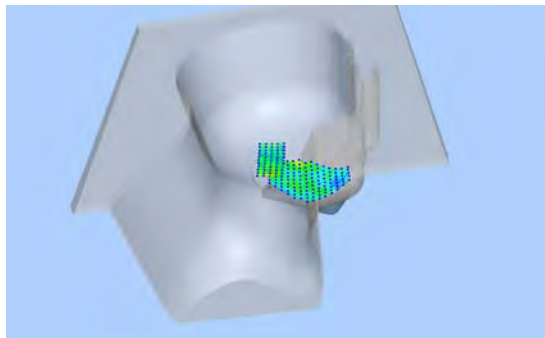
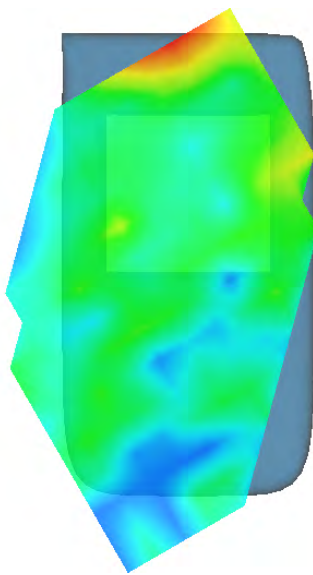
Maximum location: X=8.00, Y=0.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.029424
SAR 1g (W/Kg)	0.065228

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1578	0.0657	0.0186	0.0186	0.0121	0.0055	0.0015



3D screen shot	Hot spot position
	

**MEASUREMENT 41**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

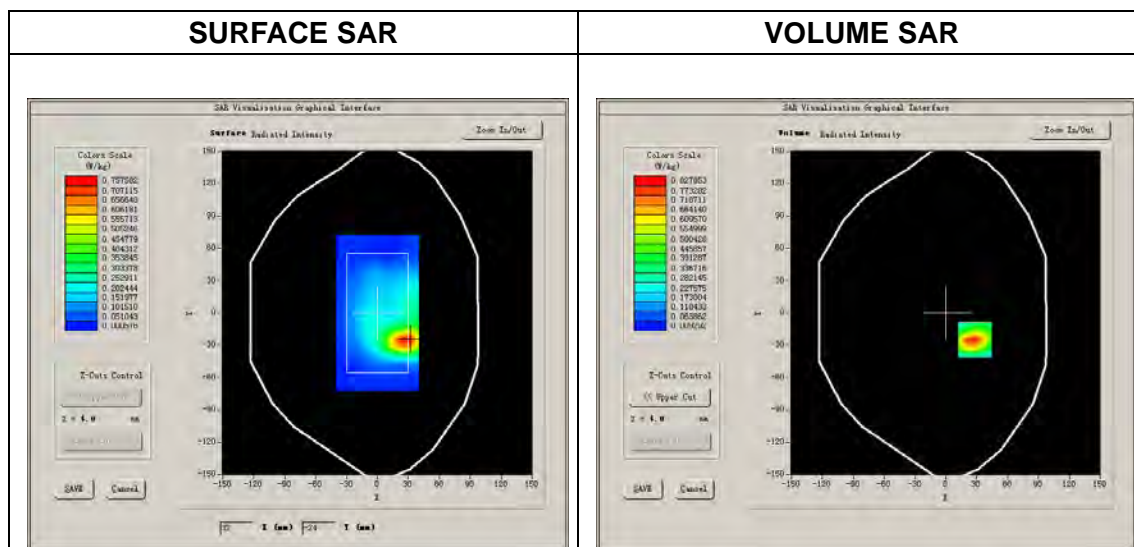
Measurement duration: 13 minutes 32 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2_WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Conductivity (S/m)	1.400391
Power drift (%)	-38.299999
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1



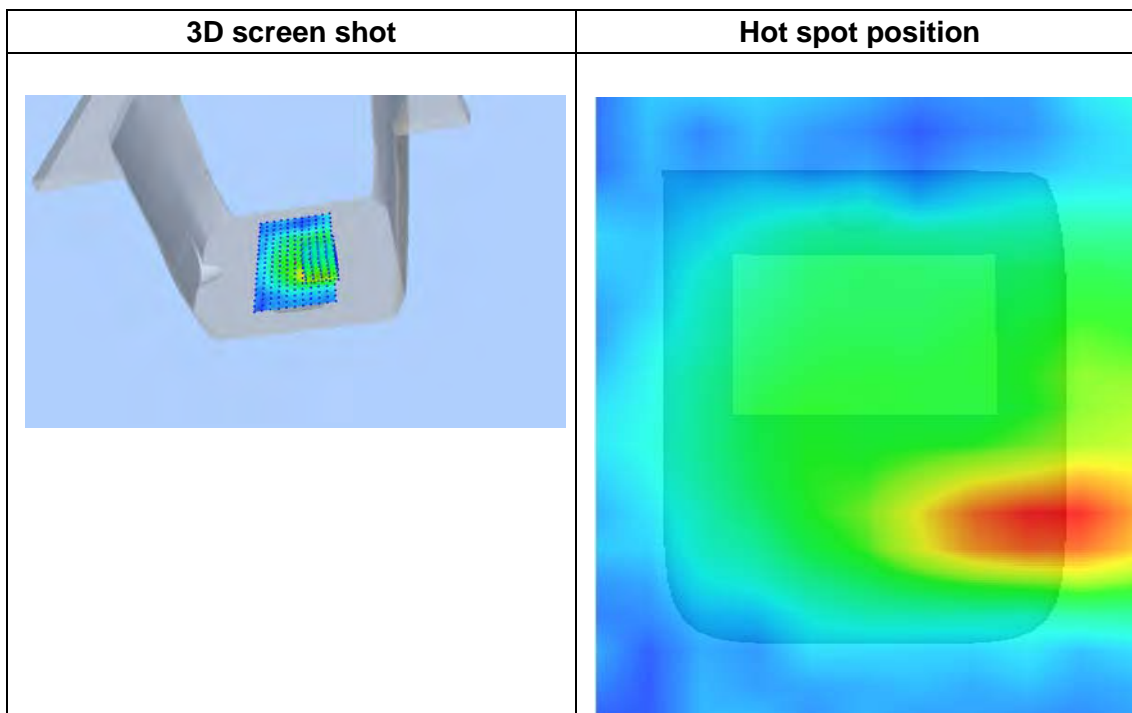
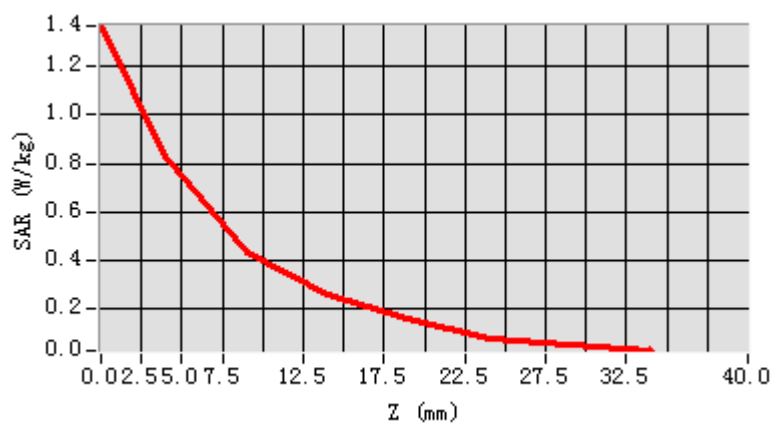


Maximum location: X=28.00, Y=-25.00

SAR Peak: 1.40 W/kg

SAR 10g (W/Kg)	0.380802
SAR 1g (W/Kg)	0.781883

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3684	0.8279	0.4357	0.2539	0.1561	0.0789	0.0484



**MEASUREMENT 42**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 27 seconds

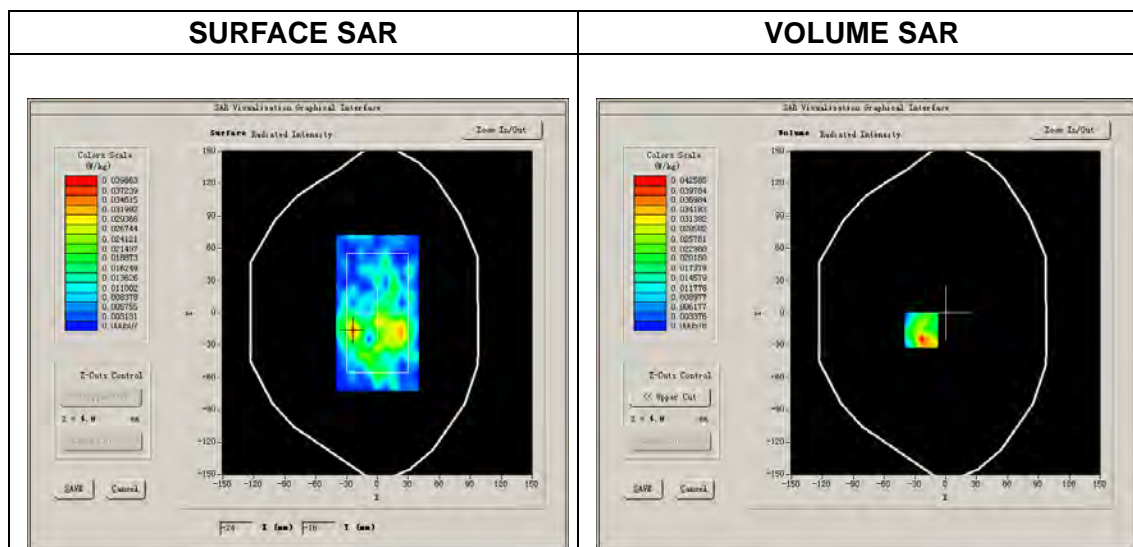
A. Experimental conditions.

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2_WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.000000
Conductivity (S/m)	1.400391
Power drift (%)	-38.299999
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1

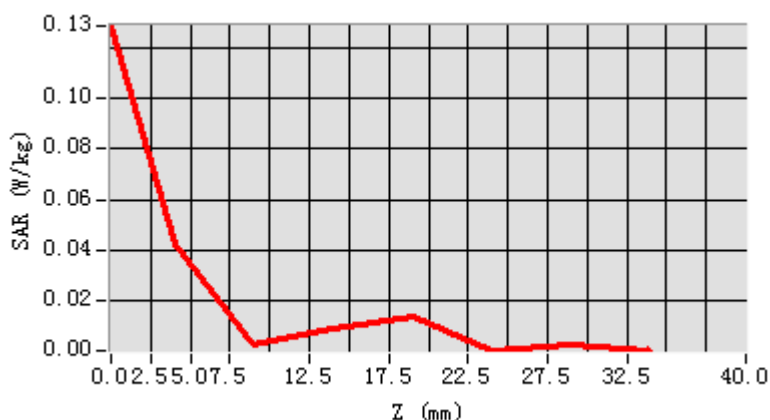


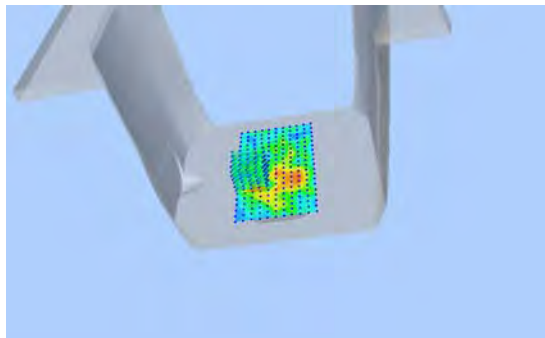
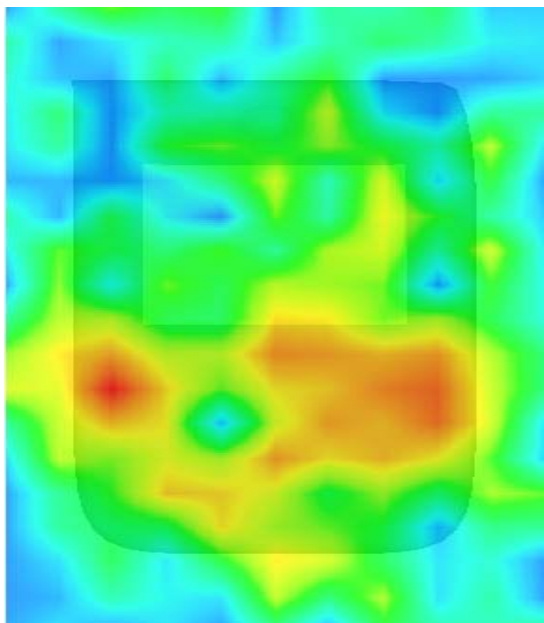
Maximum location: X=-24.00, Y=-16.00

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.014976
SAR 1g (W/Kg)	0.036594

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1284	0.0426	0.0026	0.0091	0.0144	0.0006	0.0029



3D screen shot	Hot spot position
	

**MEASUREMENT 43**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

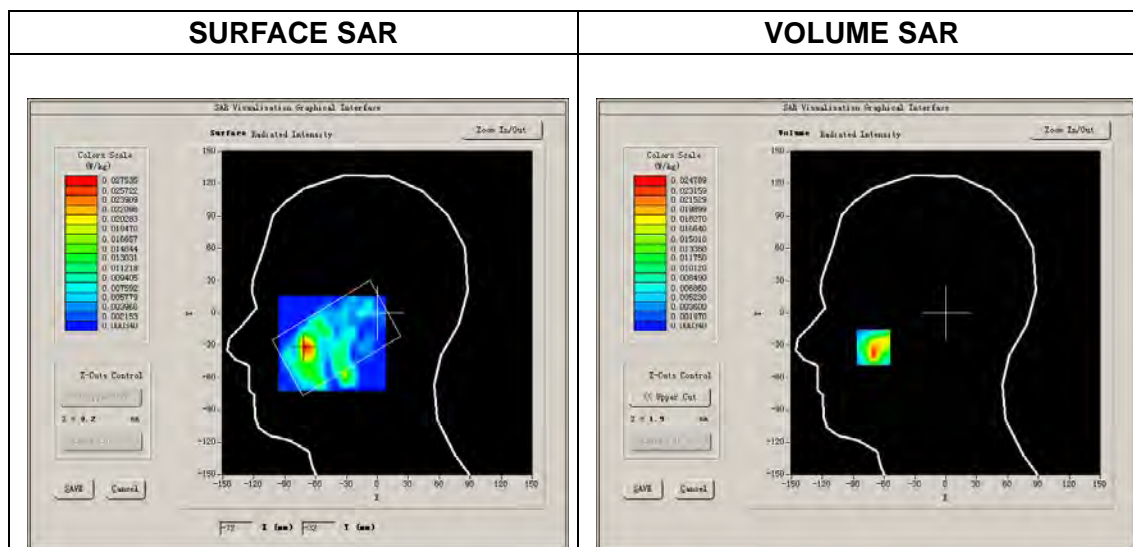
Measurement duration: 11 minutes 26 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band5_WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.901453
Power drift (%)	0.670000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1

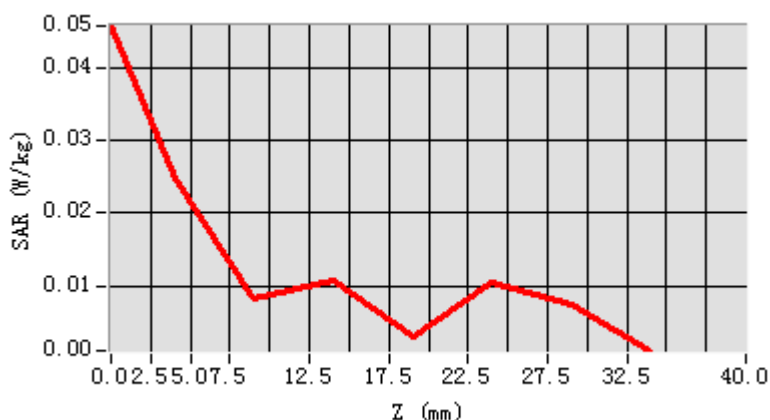


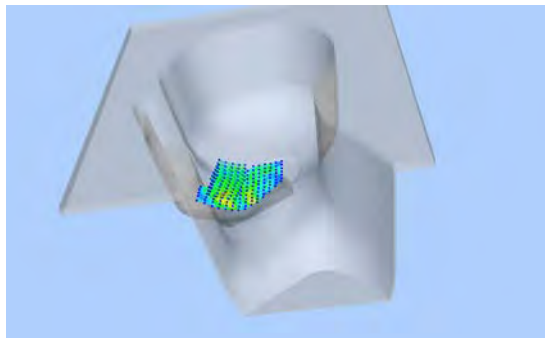
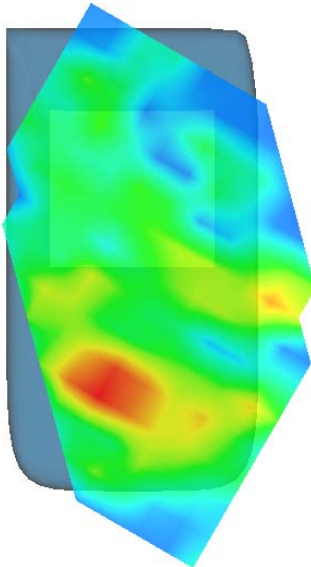
Maximum location: X=-70.00, Y=-32.00

SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.011695
SAR 1g (W/Kg)	0.022056

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0457	0.0248	0.0084	0.0108	0.0030	0.0105	0.0074



3D screen shot	Hot spot position
	



MEASUREMENT 44

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 54 seconds

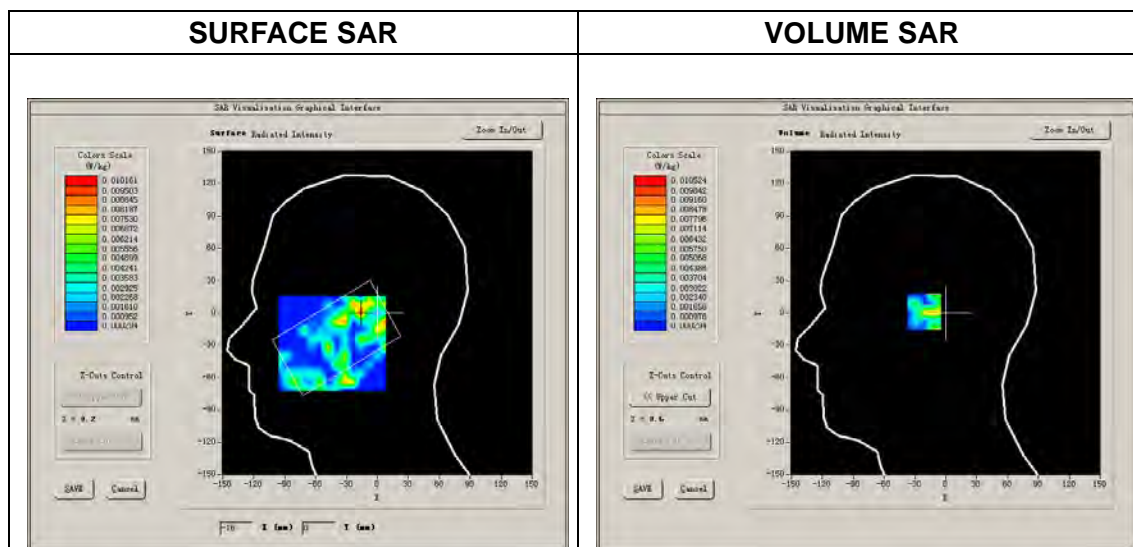
A. Experimental conditions.

<u>Area Scan</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>Band5_WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Middle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.901453
Power drift (%)	0.670000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1



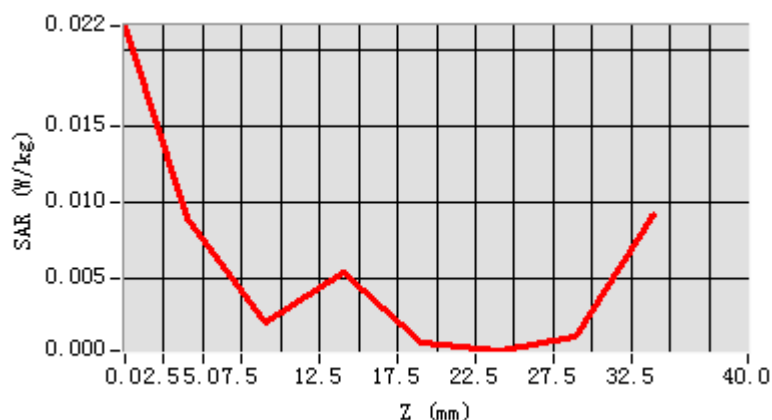


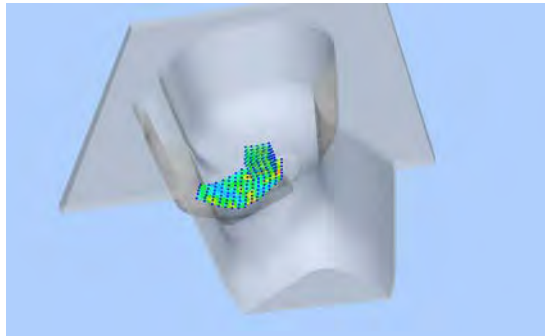
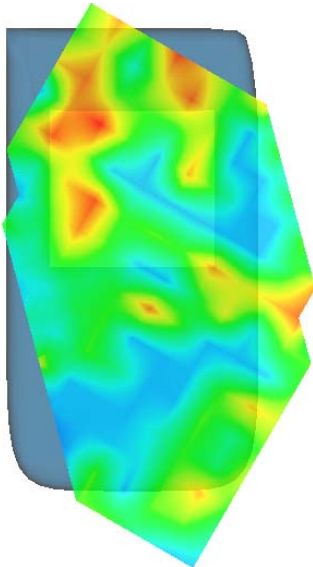
Maximum location: X=-16.00, Y=1.00

SAR Peak: 0.02 W/kg

SAR 10g (W/Kg)	0.004102
SAR 1g (W/Kg)	0.008794

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0216	0.0090	0.0021	0.0054	0.0009	0.0003	0.0013



3D screen shot	Hot spot position
	



MEASUREMENT 45

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 31 seconds

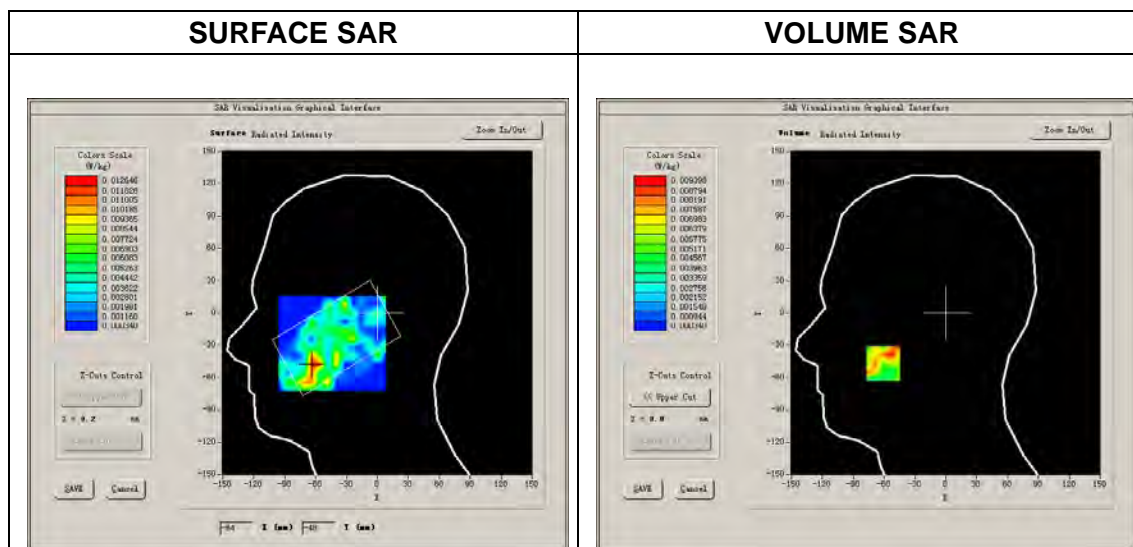
A. Experimental conditions.

<u>Area Scan</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band5_WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Middle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.901453
Power drift (%)	0.670000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1

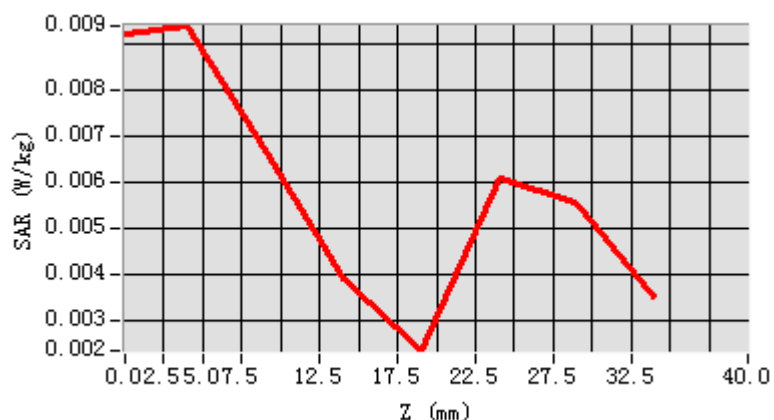


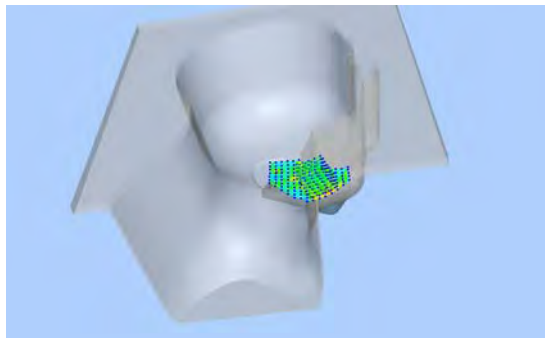
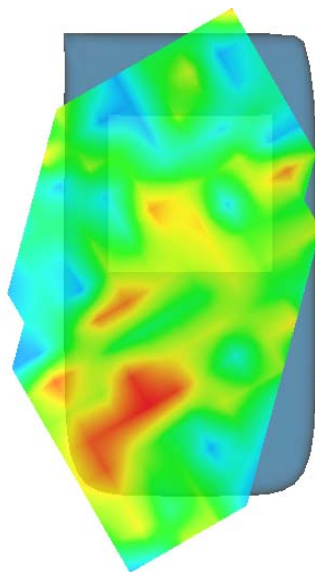
Maximum location: X=-61.00, Y=-47.00

SAR Peak: 0.02 W/kg

SAR 10g (W/Kg)	0.005408
SAR 1g (W/Kg)	0.010286

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0092	0.0094	0.0067	0.0039	0.0024	0.0061	0.0056



3D screen shot	Hot spot position
	

**MEASUREMENT 46**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

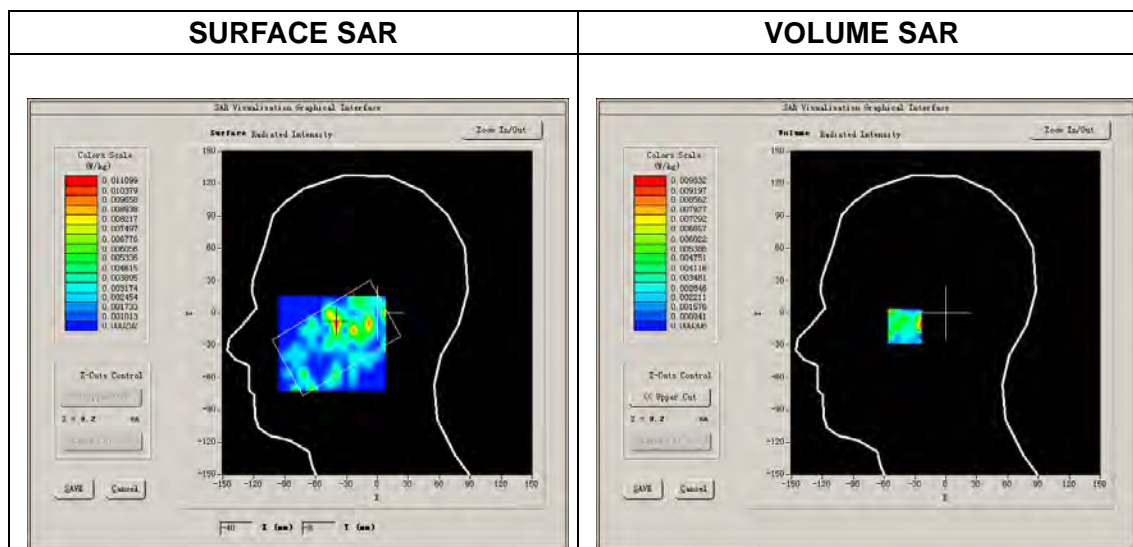
Measurement duration: 13 minutes 10 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>Band5_WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.901453
Power drift (%)	0.670000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1

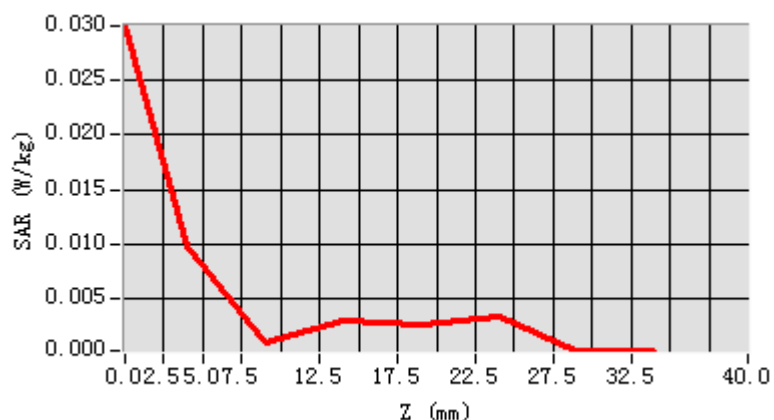


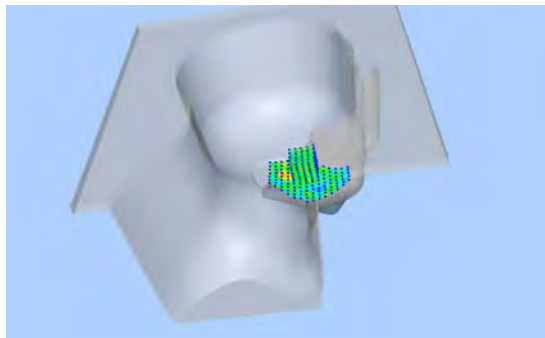
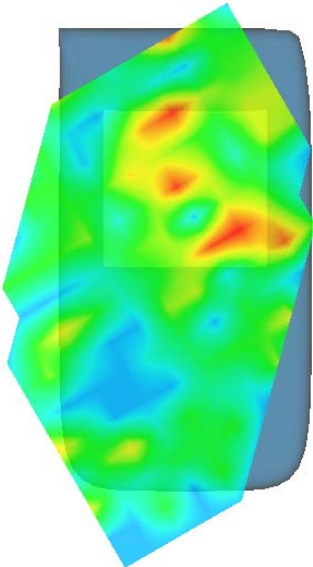
Maximum location: X=-40.00, Y=-11.00

SAR Peak: 0.02 W/kg

SAR 10g (W/Kg)	0.003831
SAR 1g (W/Kg)	0.007100

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0299	0.0098	0.0011	0.0031	0.0028	0.0034	0.0003



3D screen shot	Hot spot position
	



MEASUREMENT 47

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 30 seconds

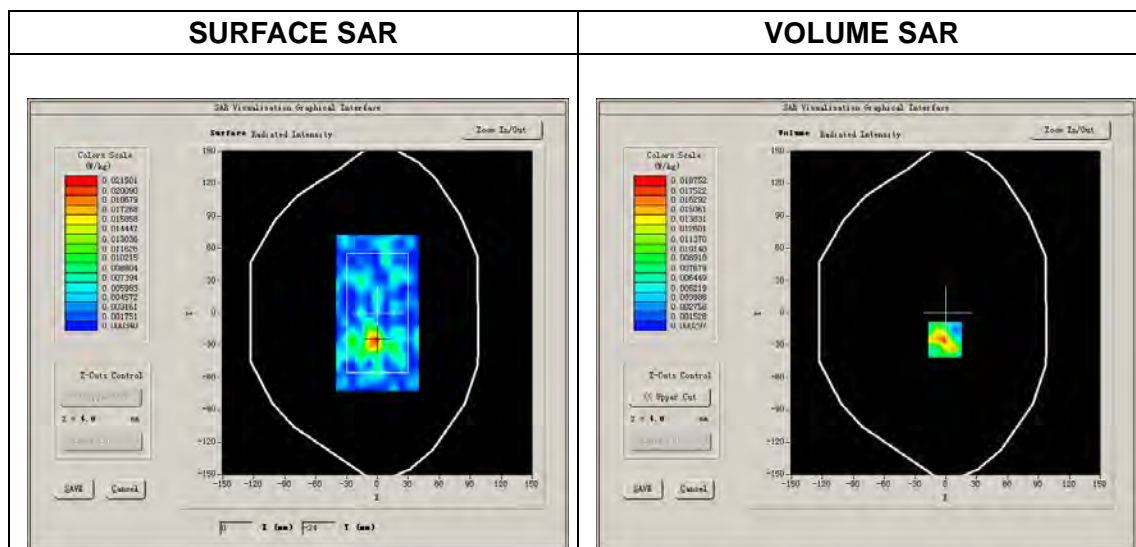
A. Experimental conditions.

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5_WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement Results

Middle Band SAR (Channel 4182):

Frequency (MHz)	836.400024
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.901453
Power drift (%)	0.670000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1

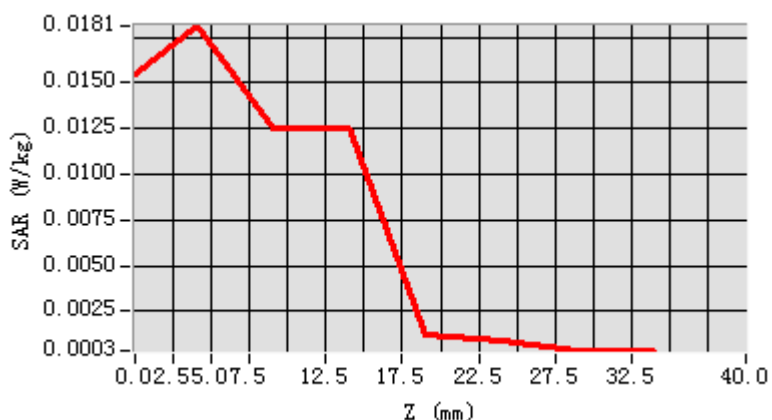


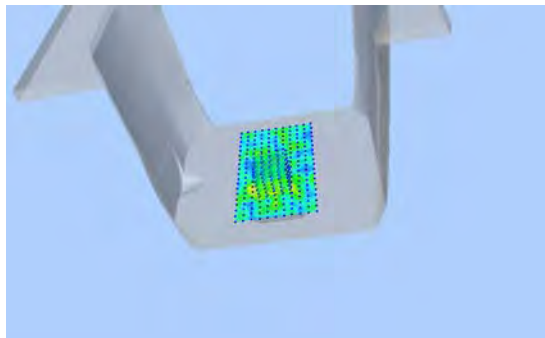
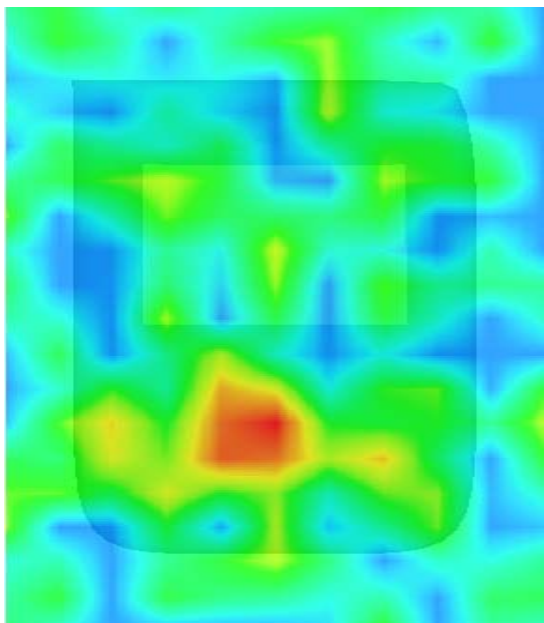
Maximum location: X=-1.00, Y=-25.00

SAR Peak: 0.03 W/kg

SAR 10g (W/Kg)	0.009169
SAR 1g (W/Kg)	0.015672

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0155	0.0181	0.0126	0.0125	0.0012	0.0009	0.0003



3D screen shot	Hot spot position
	

**MEASUREMENT 48**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

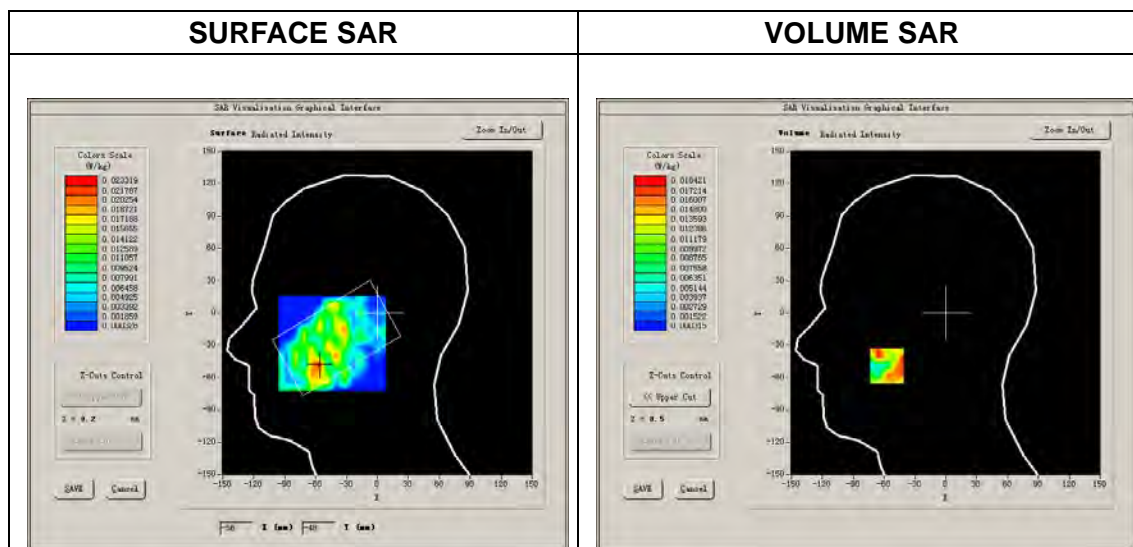
Measurement duration: 13 minutes 30 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>Band8_WCDMA900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 2787):

Frequency (MHz)	897.000000
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.991718
Power drift (%)	0.670000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.8°C
ConvF:	6.13
Crest factor:	1:1



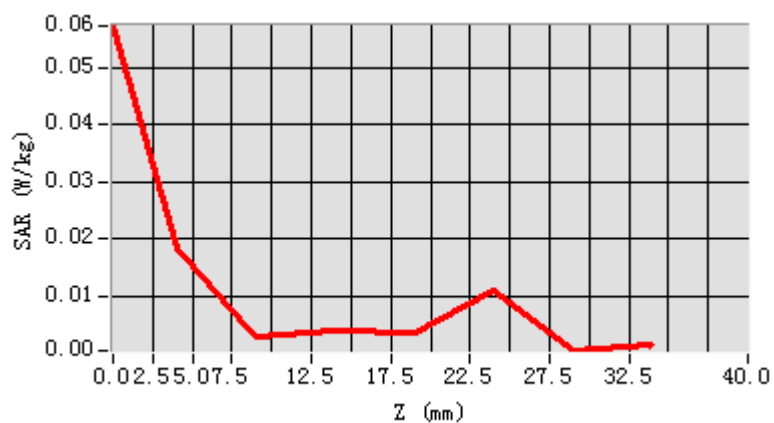


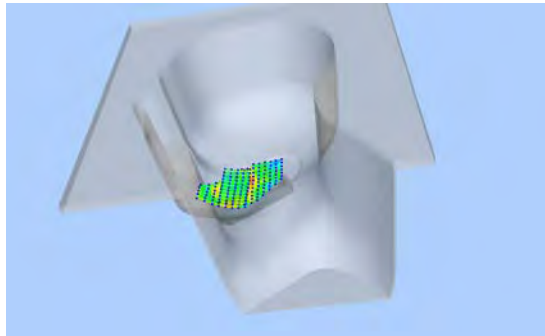
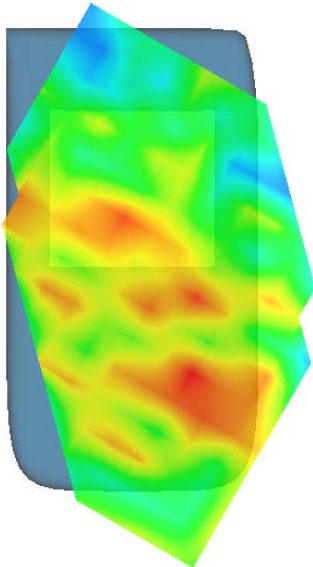
Maximum location: X=-57.00, Y=-49.00

SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.009501
SAR 1g (W/Kg)	0.016402

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0573	0.0184	0.0027	0.0038	0.0036	0.0109	0.0003



3D screen shot	Hot spot position
	

**MEASUREMENT 49**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

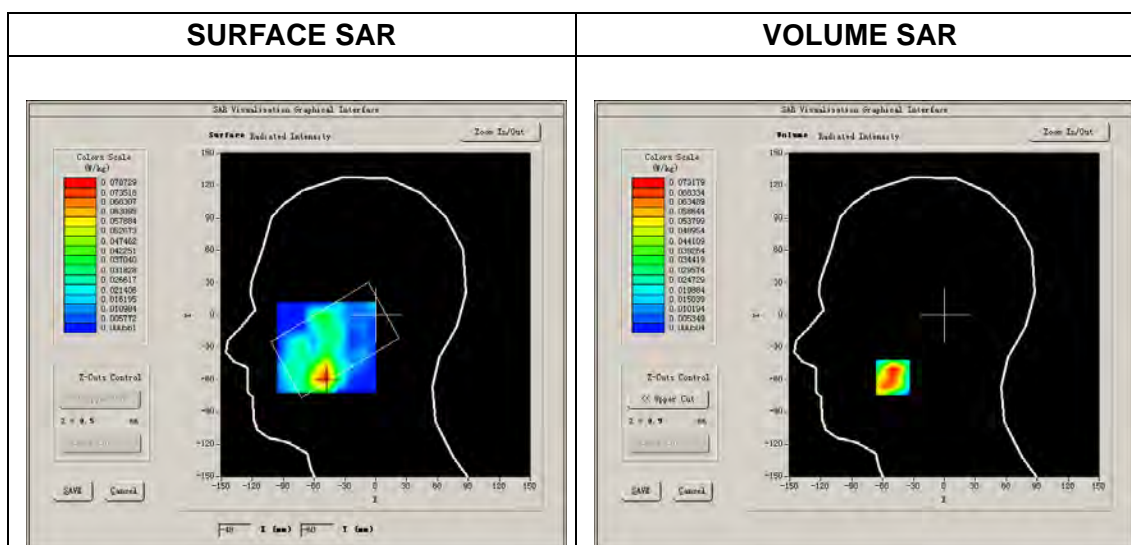
Measurement duration: 13 minutes 25 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 1</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 18300):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.953746
Conductivity (S/m)	1.426843
Power drift (%)	-3.700000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1



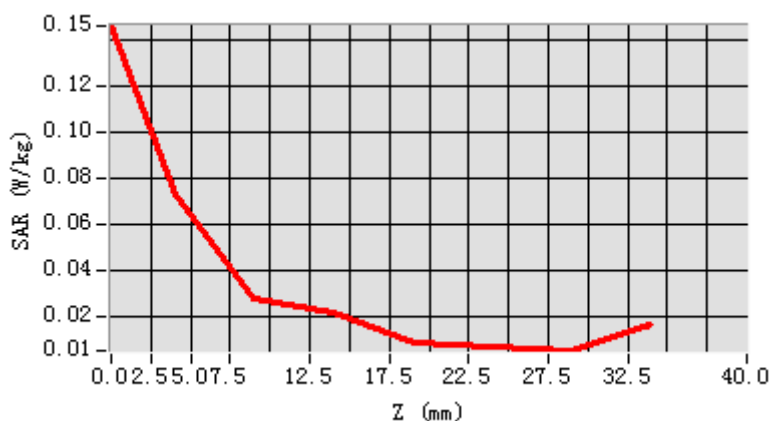


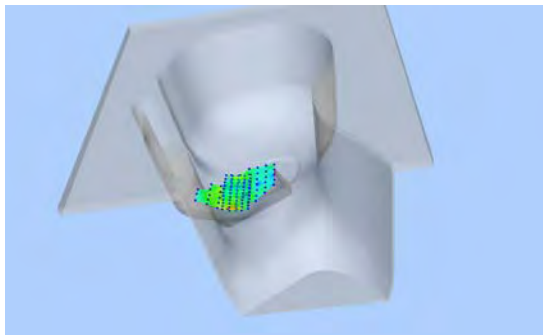
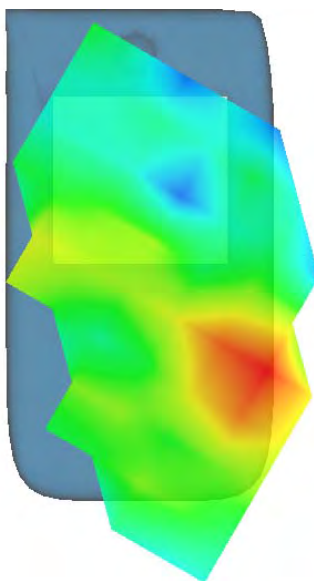
Maximum location: X=-50.00, Y=-58.00 REPORT No. : SZ17080130S02

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.034438
SAR 1g (W/Kg)	0.070081

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1465	0.0732	0.0280	0.0216	0.0090	0.0072	0.0053



3D screen shot	Hot spot position
	

**MEASUREMENT 50**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

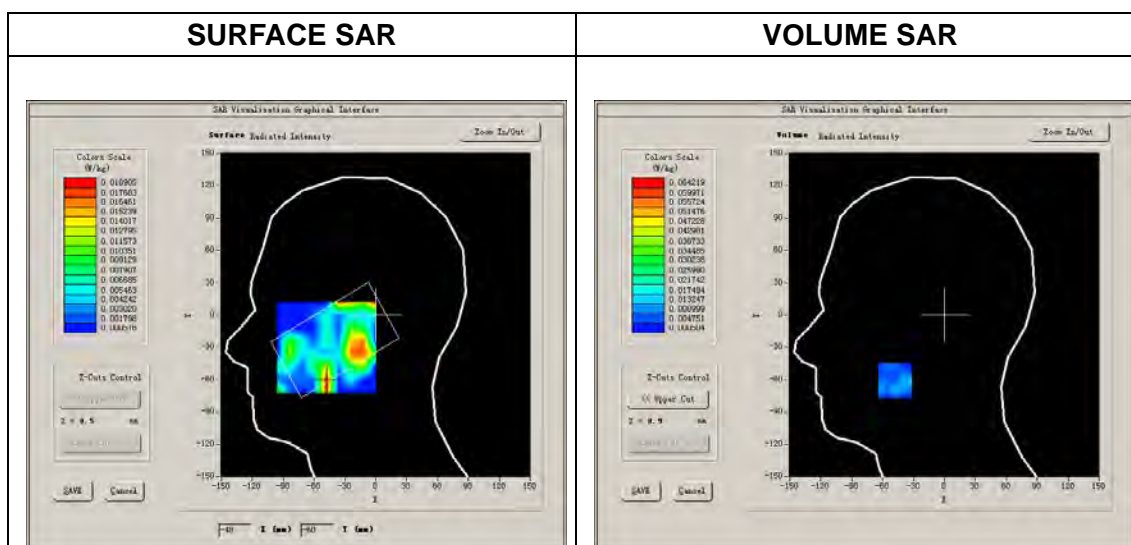
Measurement duration: 13 minutes 30 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 1</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 18300):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.953746
Conductivity (S/m)	1.426843
Power drift (%)	-3.700000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1



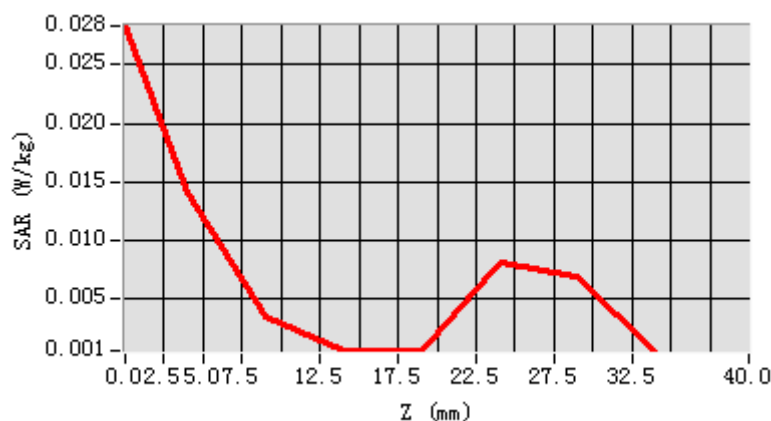


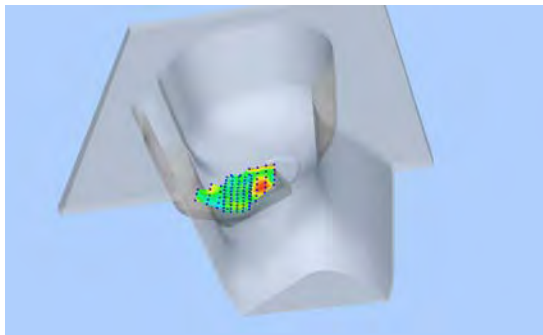
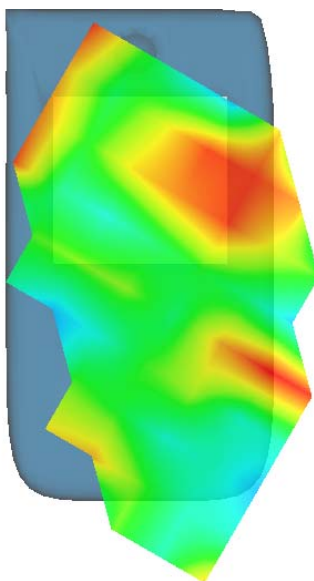
Maximum location: X=-48.00, Y=-61.00
 SAR Peak: 0.11 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.007517
SAR 1g (W/Kg)	0.023962

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0283	0.0141	0.0035	0.0006	0.0006	0.0082	0.0069



3D screen shot	Hot spot position
	

**MEASUREMENT 51**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

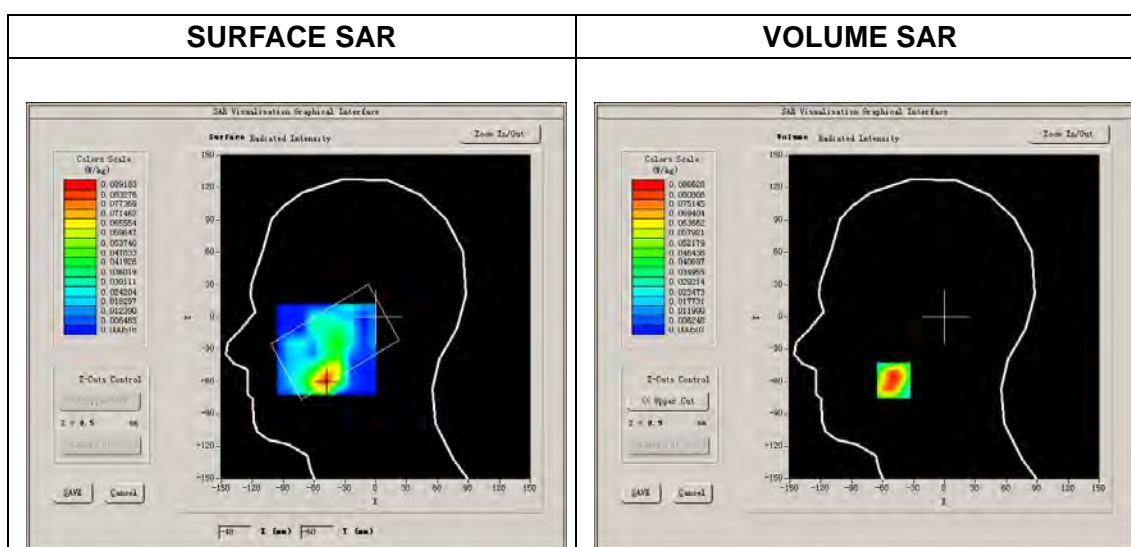
Measurement duration: 13 minutes 22 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 1</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 18300):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.953746
Conductivity (S/m)	1.426843
Power drift (%)	-3.700000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1



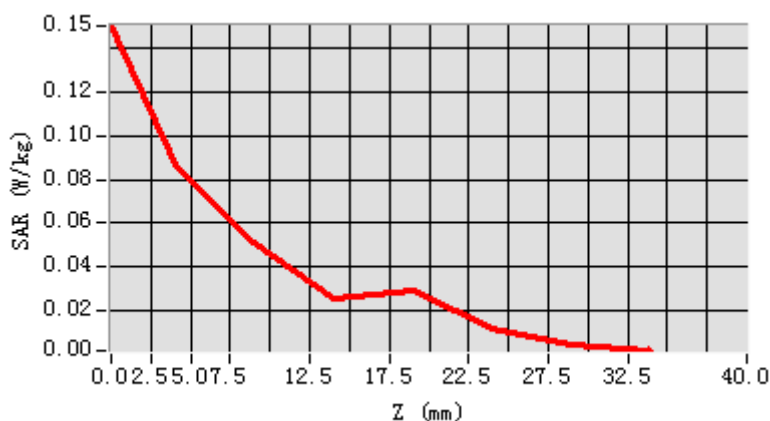


Maximum location: X=-49.00, Y=-59.00 REPORT No. : SZ17080130S02

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.043421
SAR 1g (W/Kg)	0.086176

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1506	0.0866	0.0514	0.0247	0.0286	0.0112	0.0041



3D screen shot	Hot spot position

**MEASUREMENT 52**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

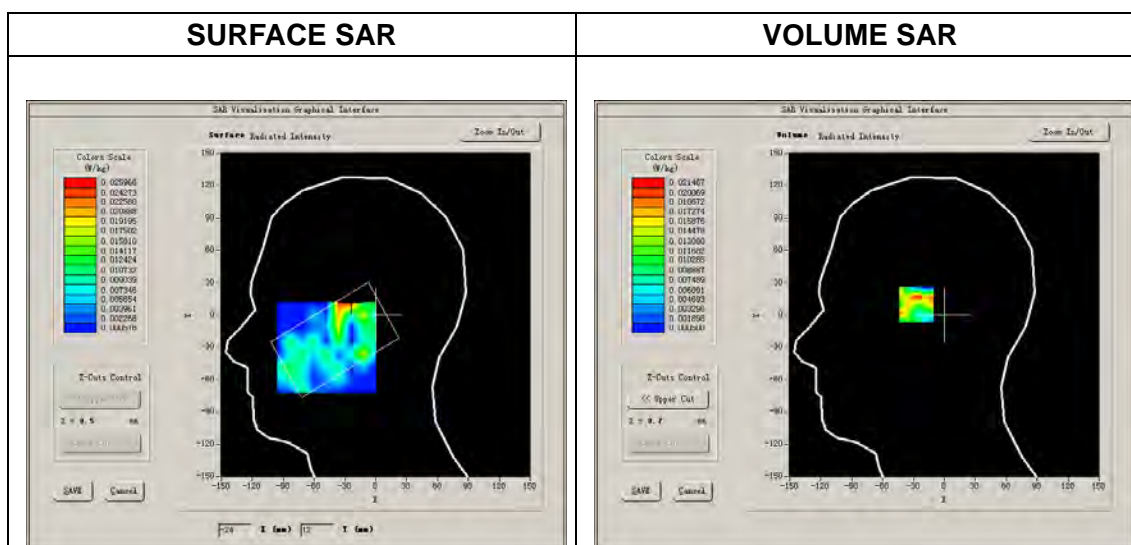
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 1</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 18300):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.953746
Conductivity (S/m)	1.426843
Power drift (%)	-3.700000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1



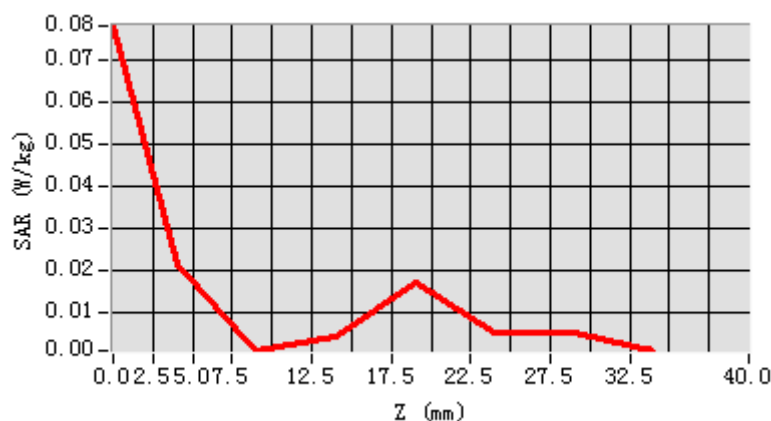


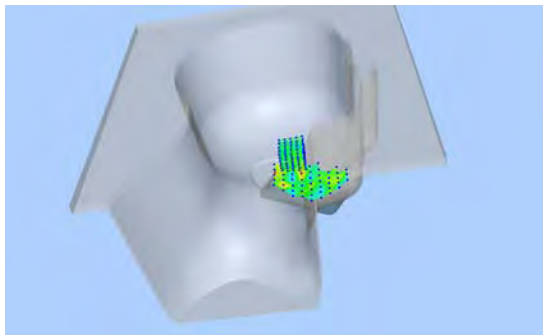
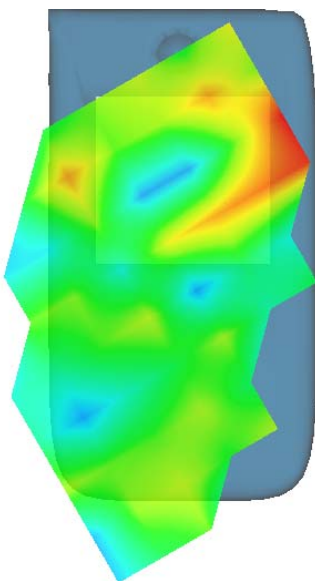
Maximum location: X=-26.00, Y=12.00
 SAR Peak: 0.06 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.010477
SAR 1g (W/Kg)	0.022679

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0782	0.0215	0.0010	0.0043	0.0169	0.0050	0.0052



3D screen shot	Hot spot position
	



MEASUREMENT 53

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 50 seconds

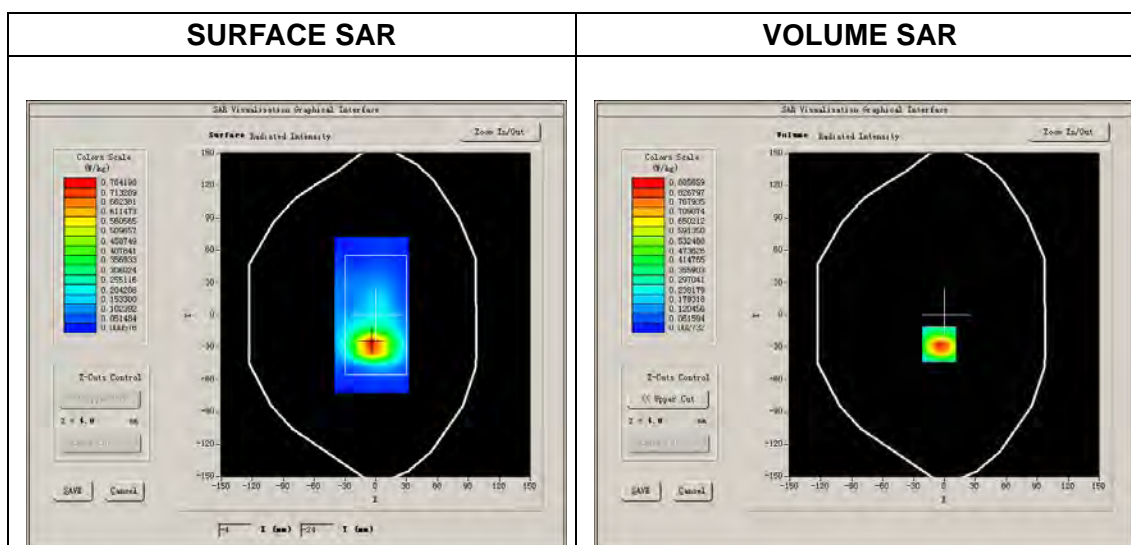
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 1</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 18300):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.953746
Conductivity (S/m)	1.426843
Power drift (%)	-3.700000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1



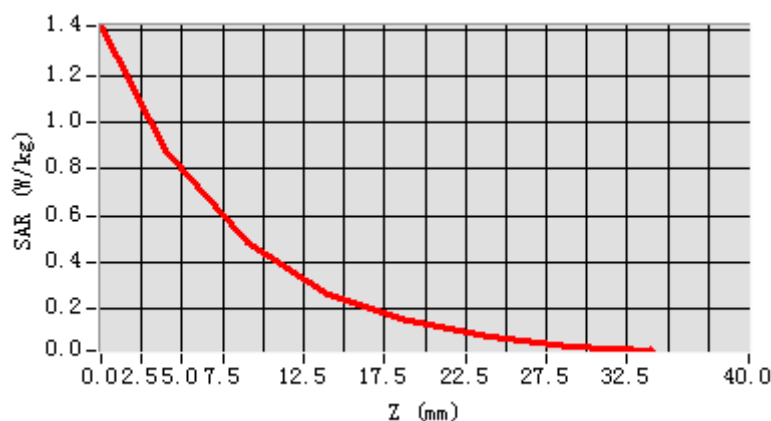


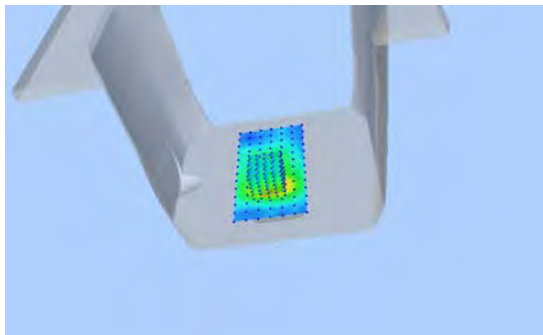
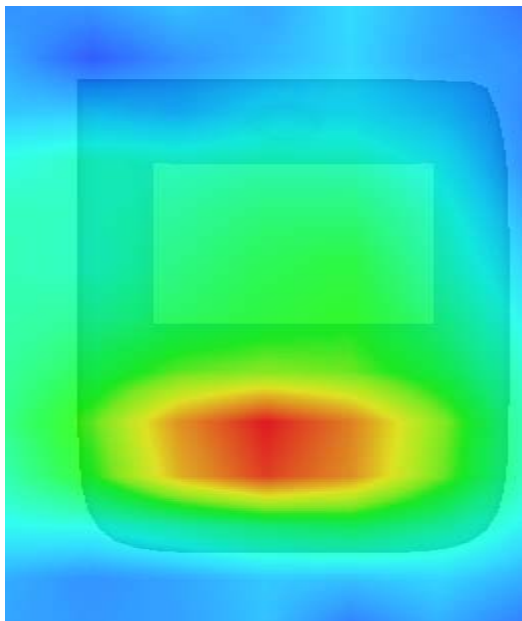
Maximum location: X=-5.00, Y=-27.00
SAR Peak: 1.45 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.407078
SAR 1g (W/Kg)	0.836445

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4157	0.8857	0.4825	0.2604	0.1484	0.0792	0.0372



3D screen shot	Hot spot position
	

**MEASUREMENT 54**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

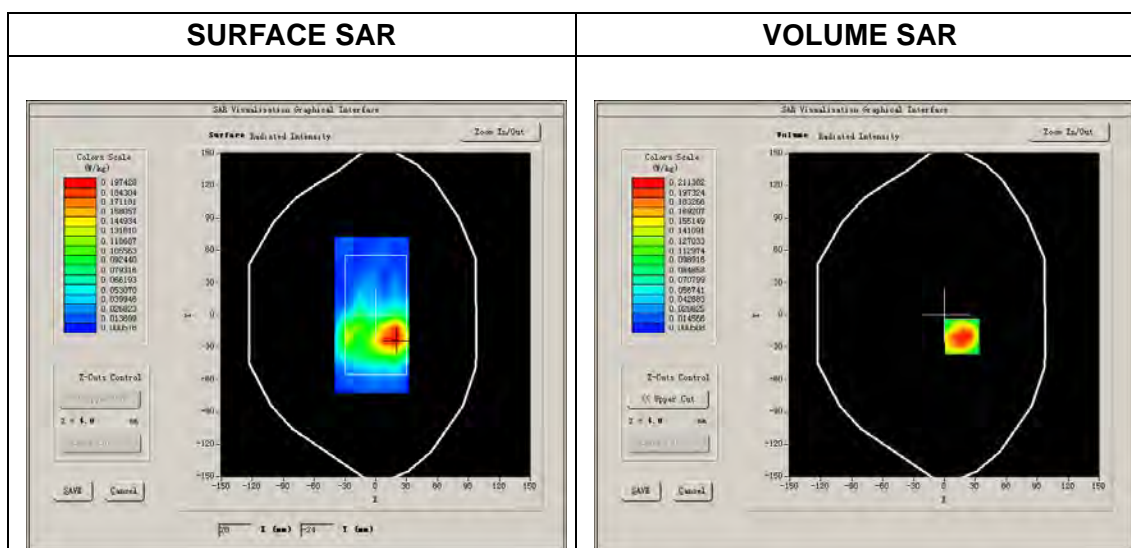
Measurement duration: 13 minutes 55 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 1</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 18300):

Frequency (MHz)	1950.000000
Relative permittivity (real part)	39.953746
Conductivity (S/m)	1.426843
Power drift (%)	-3.700000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.61
Crest factor:	1:1



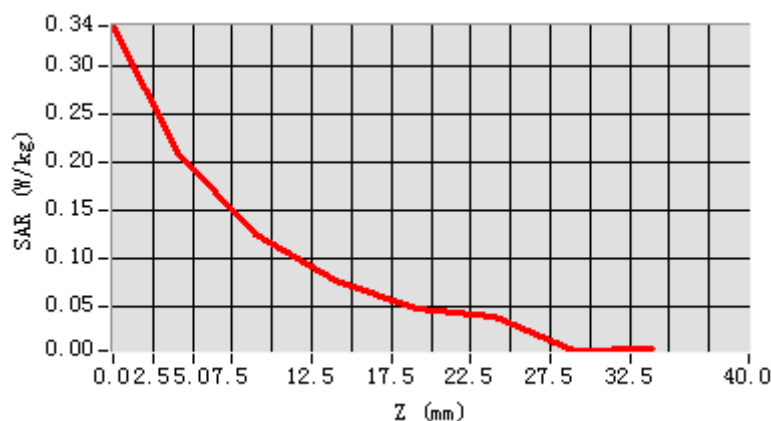


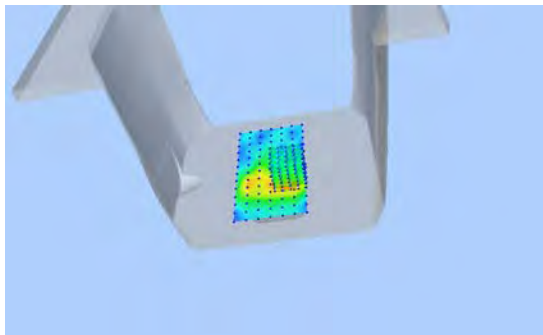
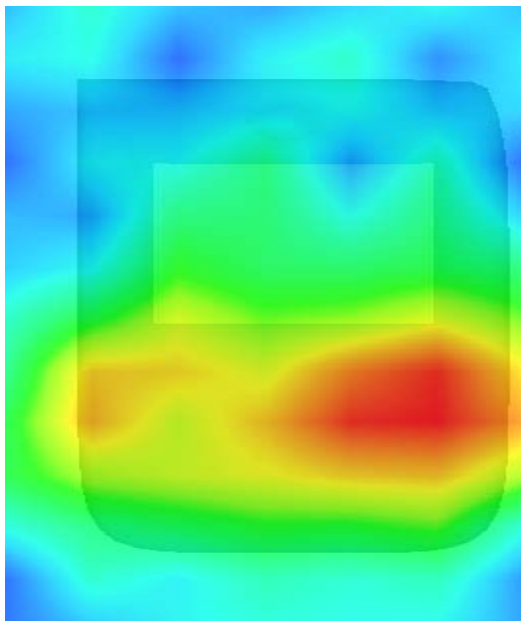
Maximum location: X=17.00, Y=-20.00
SAR Peak: 0.37 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.113334
SAR 1g (W/Kg)	0.210021

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3427	0.2114	0.1261	0.0767	0.0472	0.0395	0.0037



3D screen shot	Hot spot position
	

**MEASUREMENT 55**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

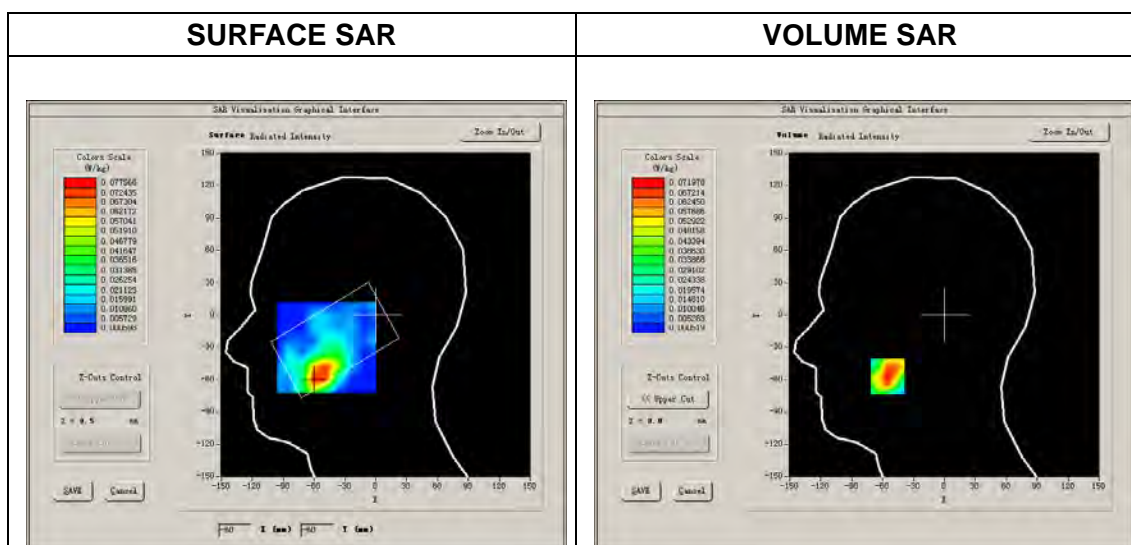
Measurement duration: 13 minutes 45 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 3</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 19575):

Frequency (MHz)	1747.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1





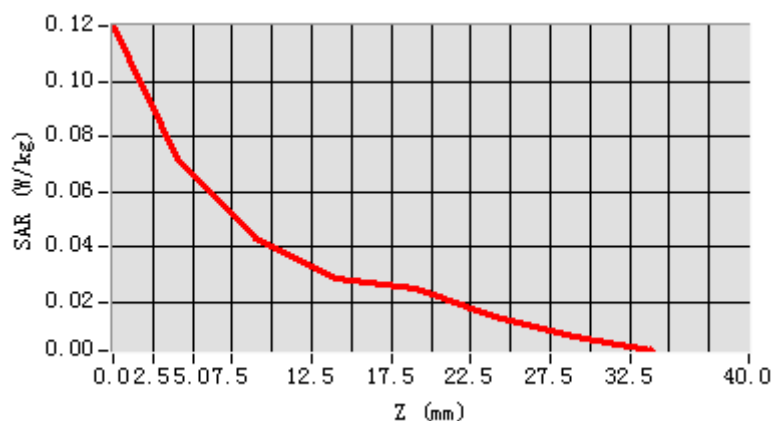
Maximum location: X=-55.00, Y=-57.00

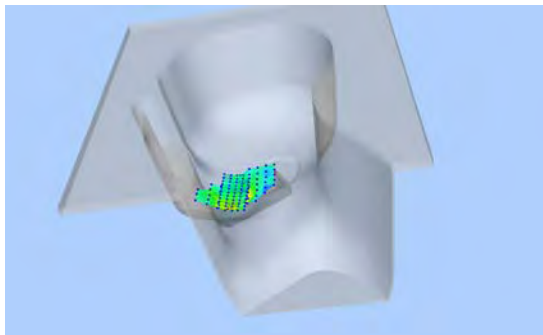
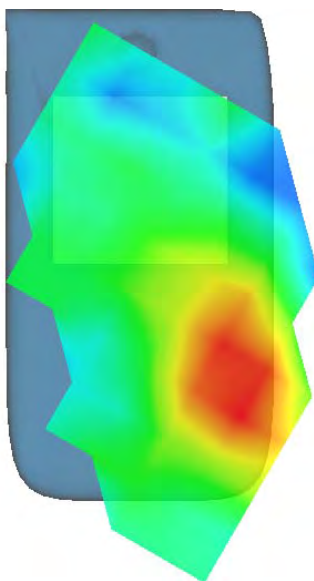
REPORT No. : SZ17080130S02

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.035404
SAR 1g (W/Kg)	0.070786

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1203	0.0720	0.0432	0.0282	0.0252	0.0148	0.0075



3D screen shot	Hot spot position
	

**MEASUREMENT 56**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

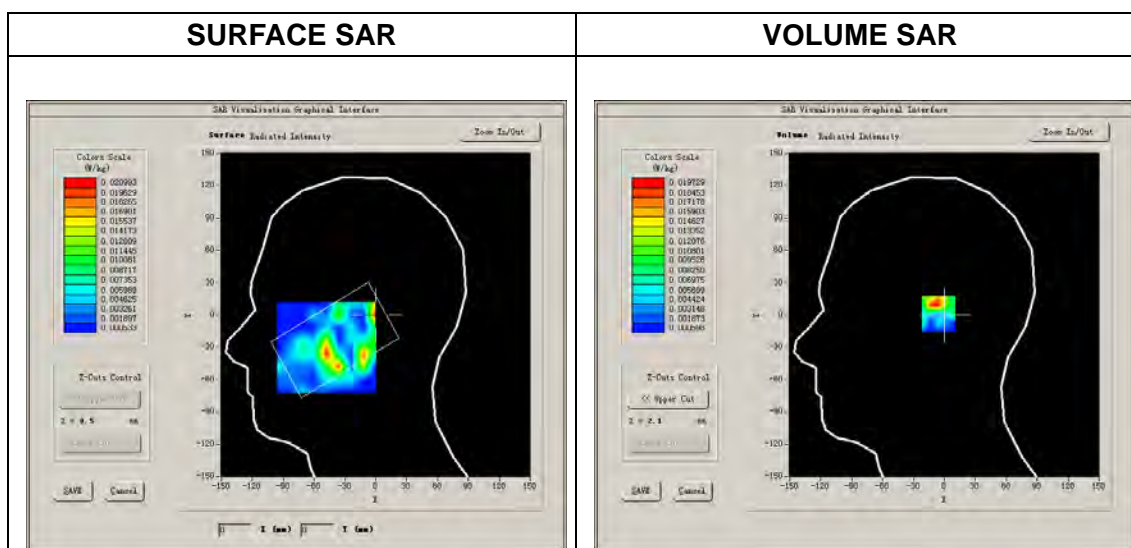
Measurement duration: 13 minutes 15 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 3</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 19575):

Frequency (MHz)	1747.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1

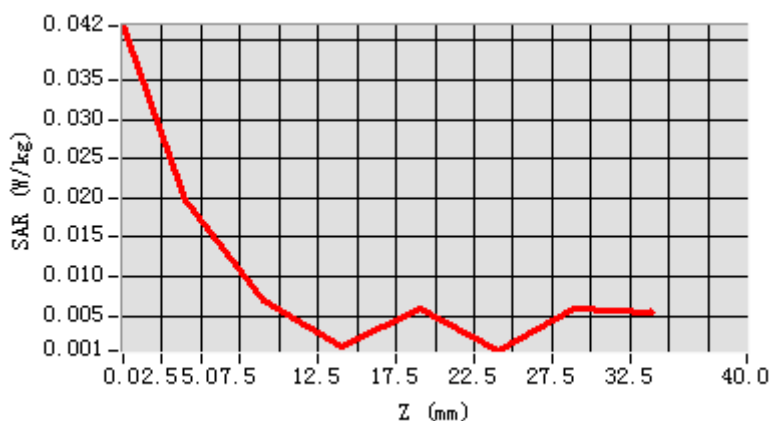


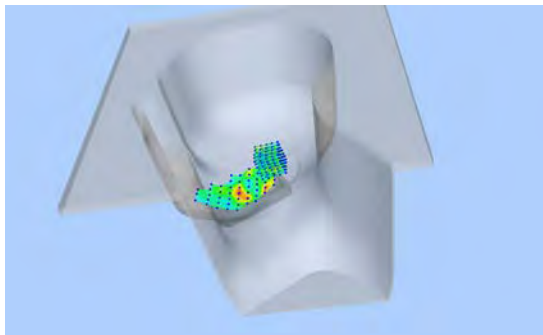
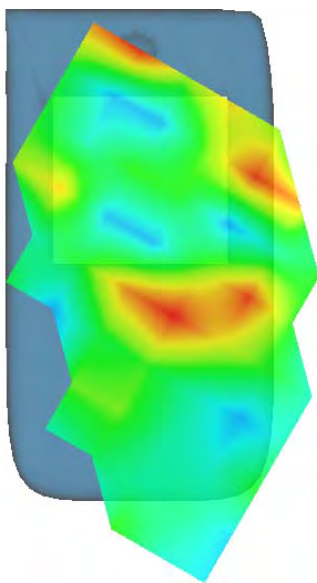


REPORT No. : SZ17080130S02
Maximum location: X=0.00, Y=1.00
SAR Peak: 0.06 W/kg

SAR 10g (W/Kg)	0.009554
SAR 1g (W/Kg)	0.022989

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0419	0.0197	0.0069	0.0010	0.0060	0.0006	0.0060



3D screen shot	Hot spot position
	

**MEASUREMENT 57**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

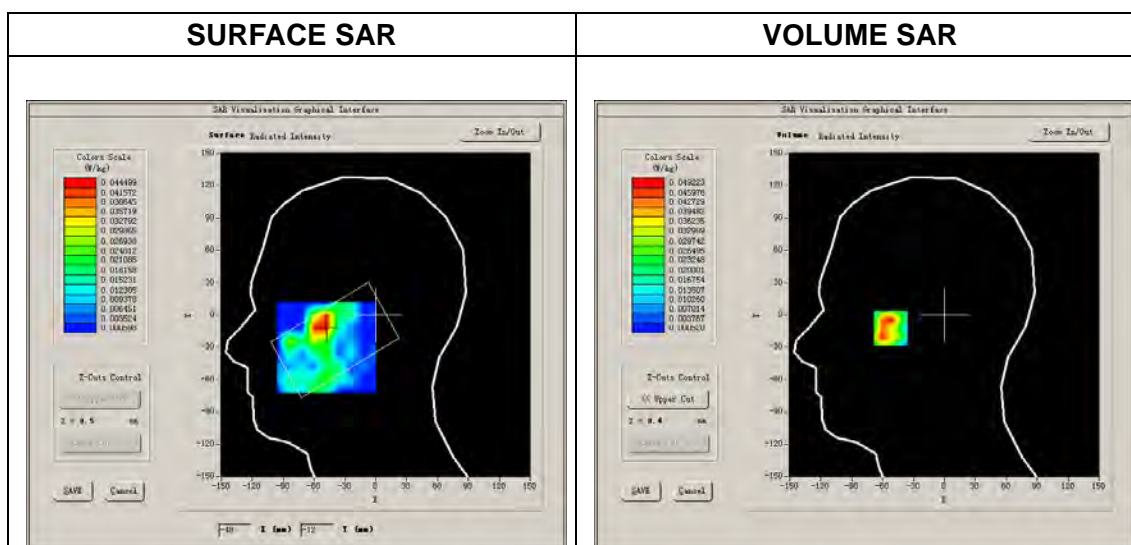
Measurement duration: 13 minutes 47 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 3</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 19575):

Frequency (MHz)	1747.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



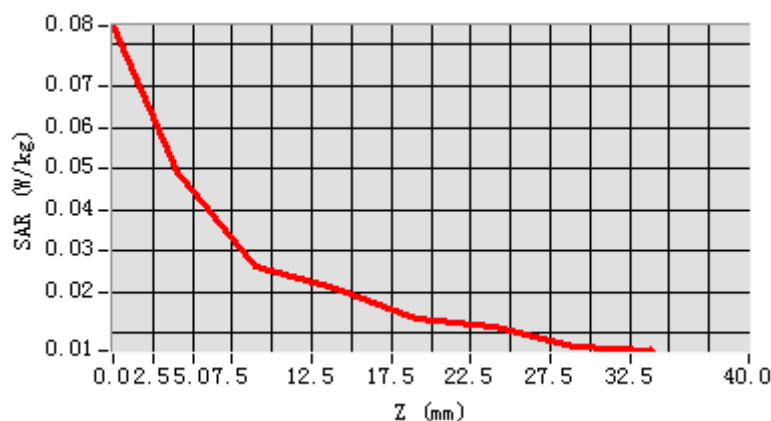


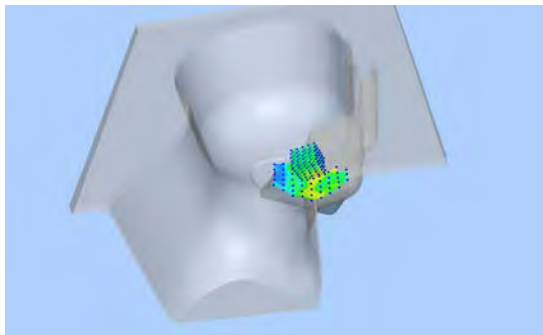
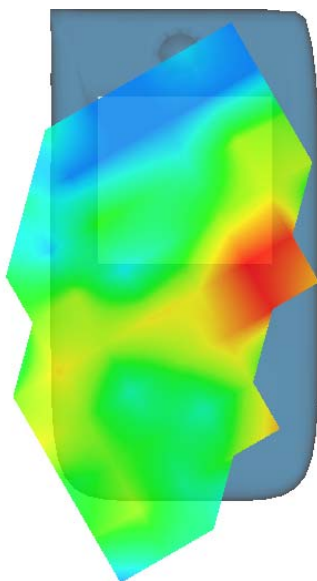
Maximum location: X=-52.00, Y=-10.00 REPORT No. : SZ17080130S02

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.024946
SAR 1g (W/Kg)	0.046989

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0846	0.0492	0.0263	0.0210	0.0134	0.0116	0.0066



3D screen shot	Hot spot position
	

**MEASUREMENT 58**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

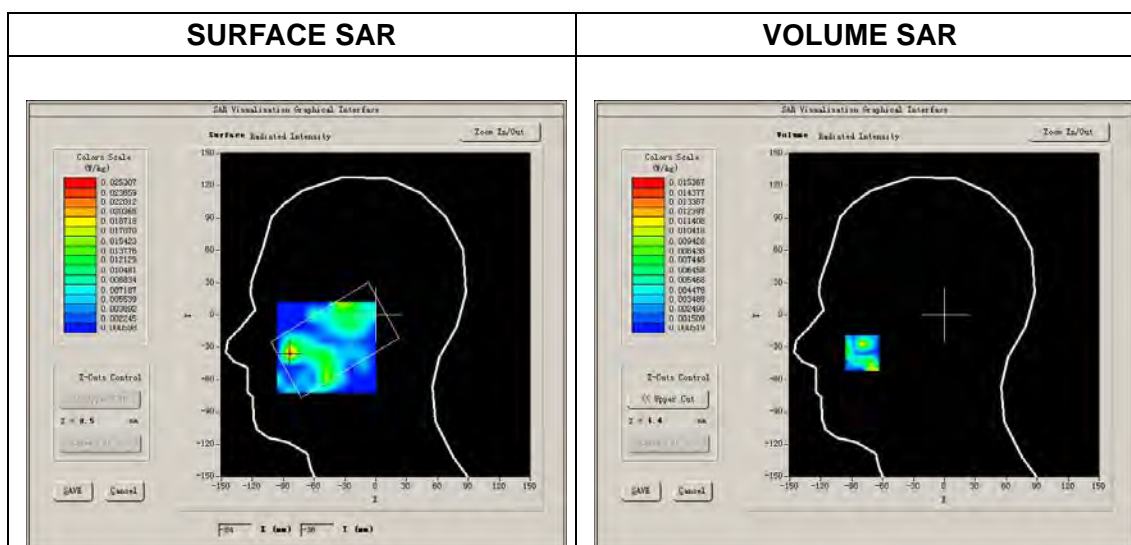
Measurement duration: 13 minutes 1 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 3</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 19575):

Frequency (MHz)	1747.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



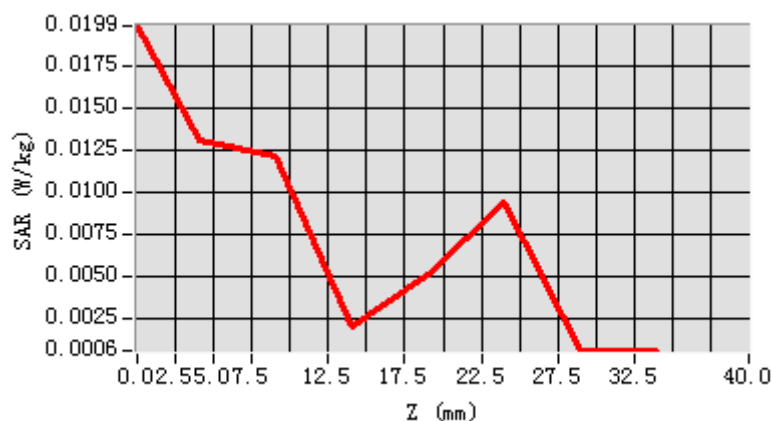


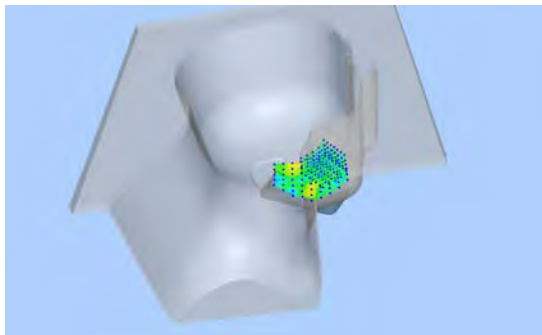
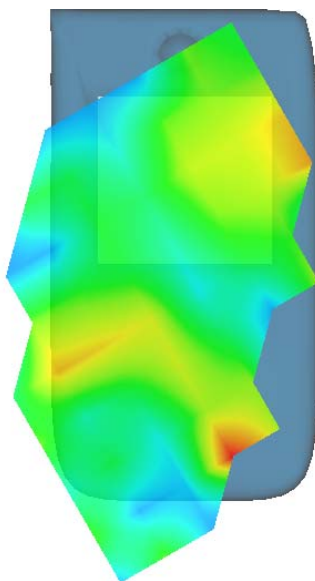
Maximum location: X=-80.00, Y=-35.00
 SAR Peak: 0.04 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.004239
SAR 1g (W/Kg)	0.011979

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0199	0.0131	0.0121	0.0020	0.0051	0.0094	0.0006



3D screen shot	Hot spot position
	

**MEASUREMENT 59**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

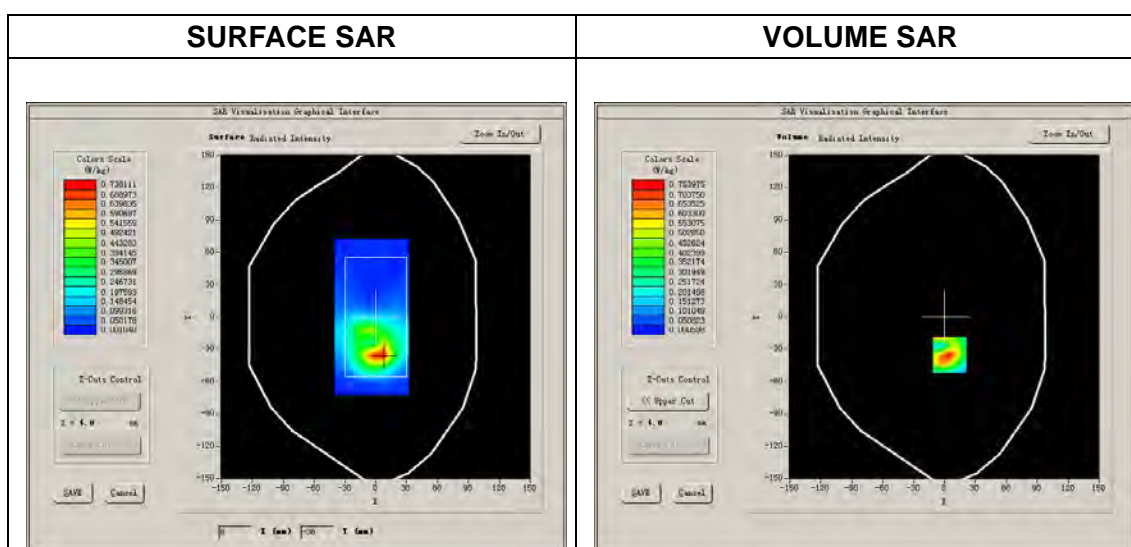
Measurement duration: 13 minutes 52 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 3</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 19575):

Frequency (MHz)	1747.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



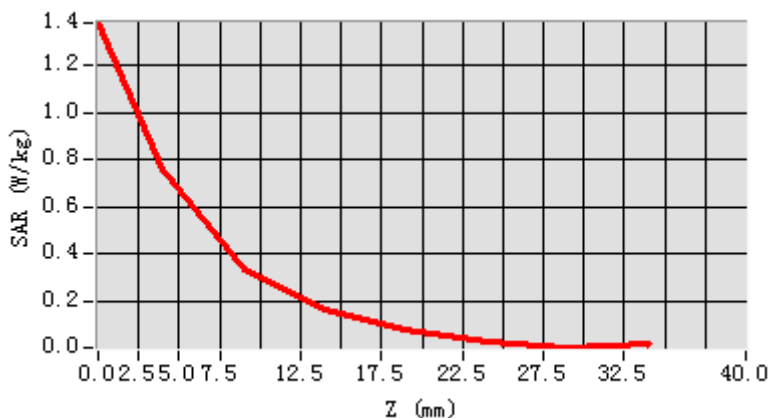


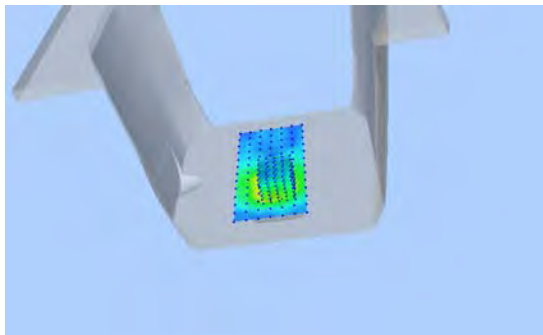
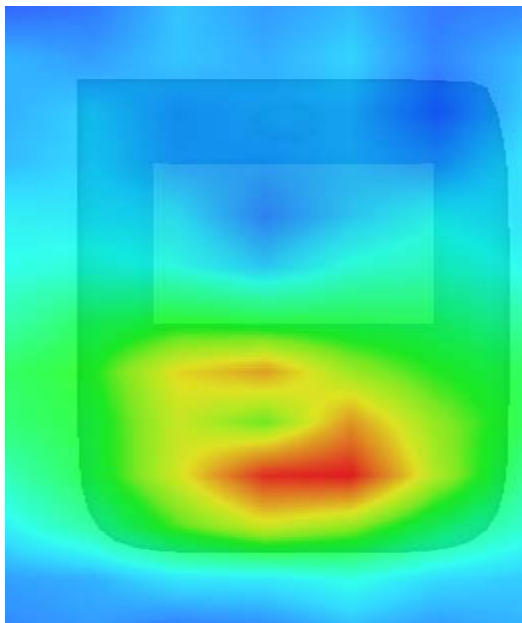
Maximum location: X=5.00, Y=-35.00
 SAR Peak: 1.45 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.311278
SAR 1g (W/Kg)	0.728056

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3787	0.7540	0.3316	0.1666	0.0751	0.0279	0.0008



3D screen shot	Hot spot position
	

**MEASUREMENT 60**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

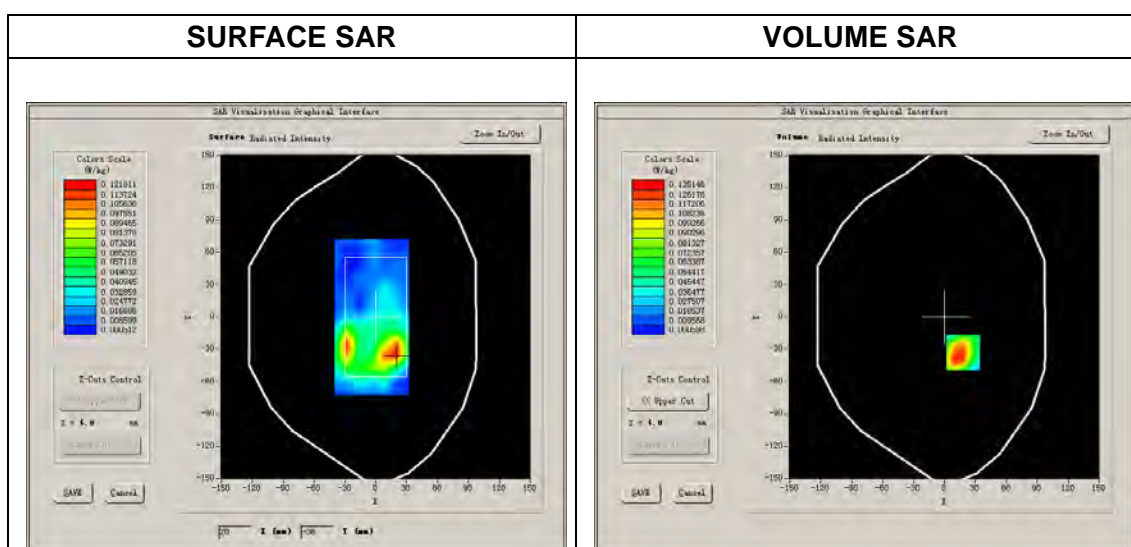
Measurement duration: 13 minutes 51 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 3</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 19575):

Frequency (MHz)	1747.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



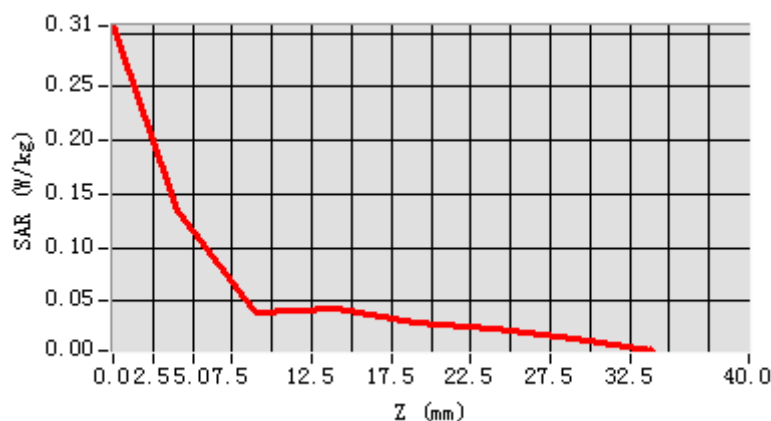


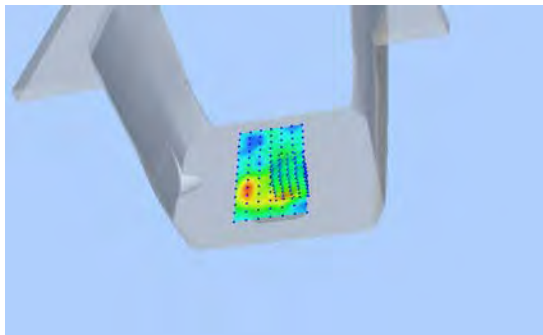
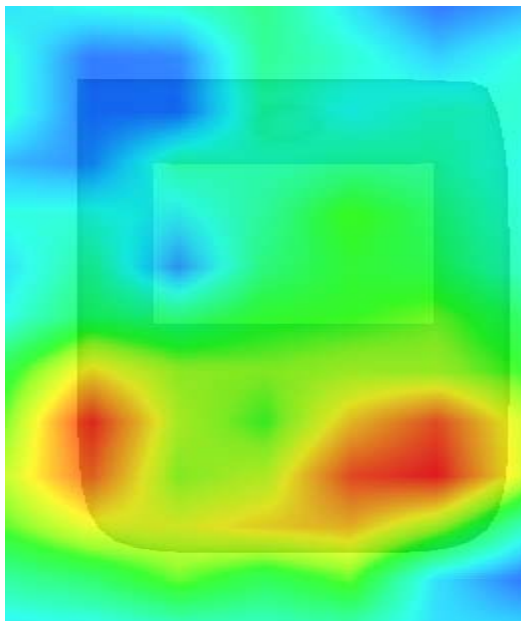
Maximum location: X=18.00, Y=-33.00
SAR Peak: 0.22 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.066241
SAR 1g (W/Kg)	0.129897

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3069	0.1351	0.0398	0.0429	0.0310	0.0246	0.0152



3D screen shot	Hot spot position
	

**MEASUREMENT 61**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

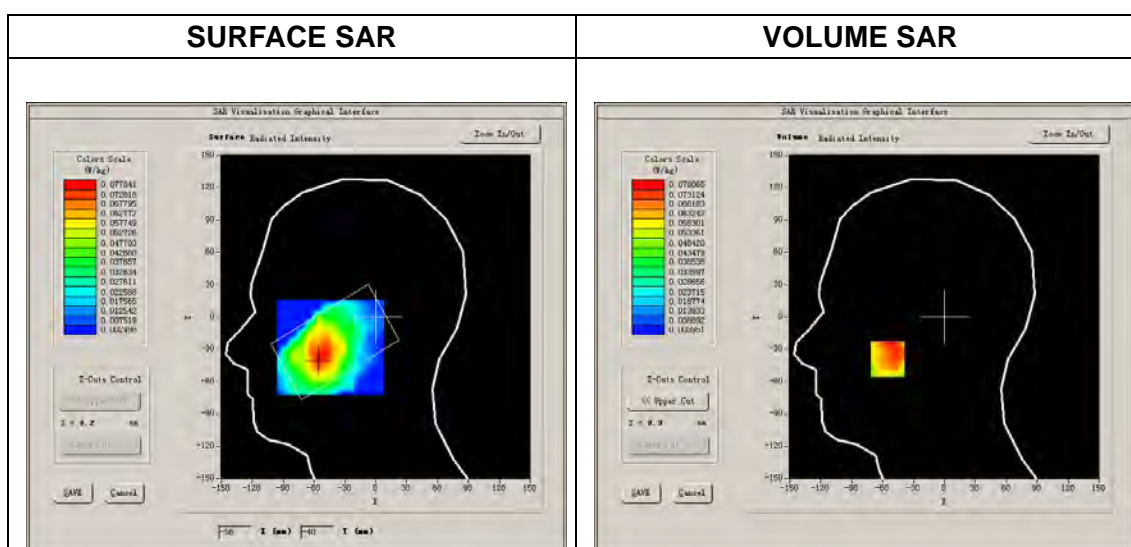
Measurement duration: 13 minutes 2 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 20525):

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.413521
Conductivity (S/m)	0.914834
Power drift (%)	1.800000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:1

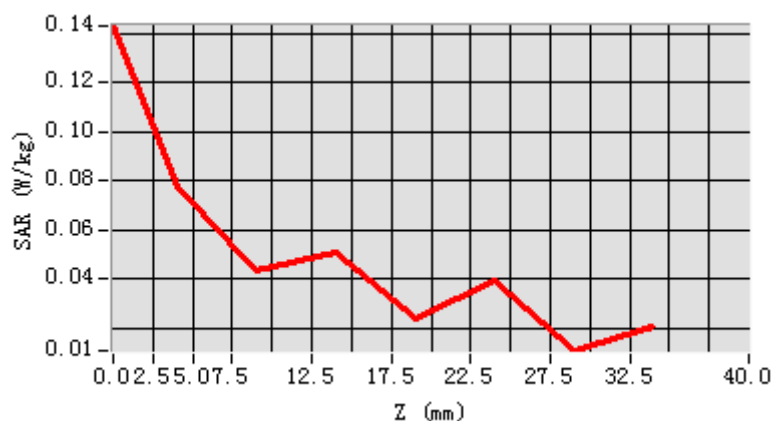


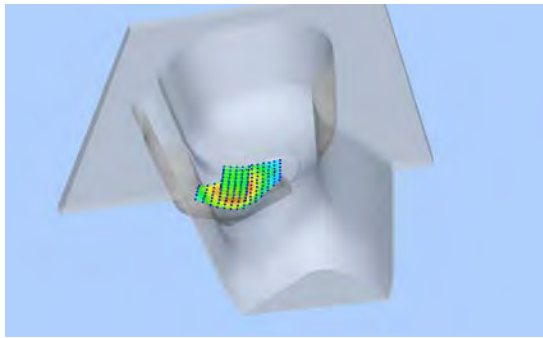
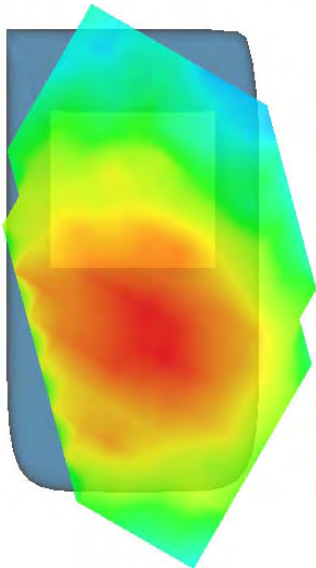


REPORT No. : SZ17080130S02
 Maximum location: X=-55.00, Y=-39.00
 SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.058293
SAR 1g (W/Kg)	0.079778

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1431	0.0781	0.0436	0.0512	0.0238	0.0395	0.0109



3D screen shot	Hot spot position
	

**MEASUREMENT 62**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

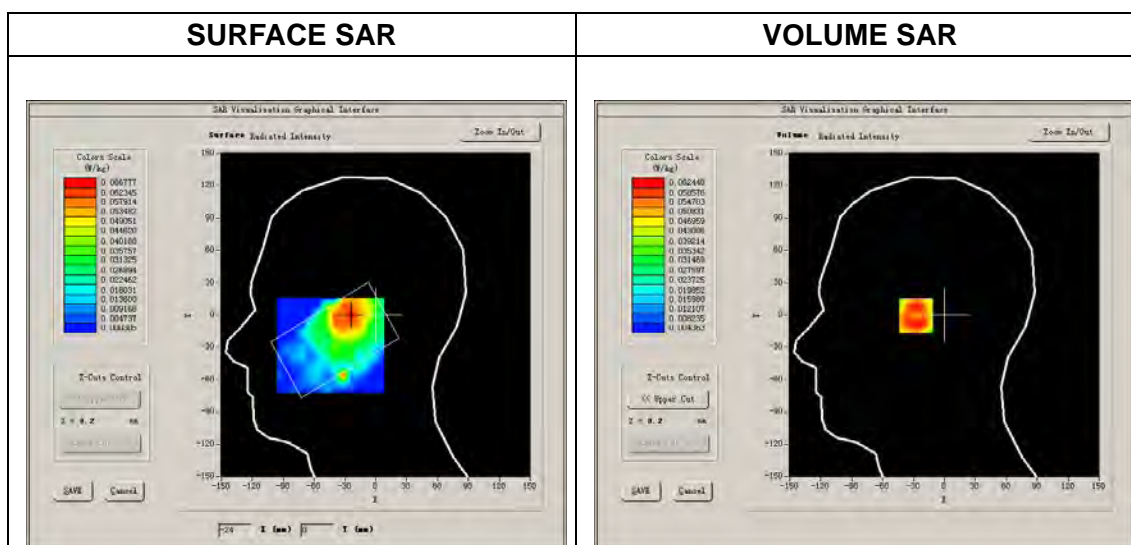
Measurement duration: 13 minutes 54 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 20525):

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.413521
Conductivity (S/m)	0.914834
Power drift (%)	1.800000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:1

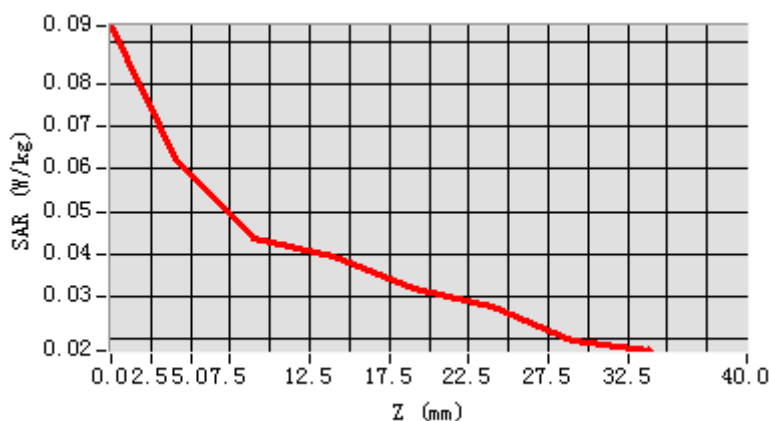


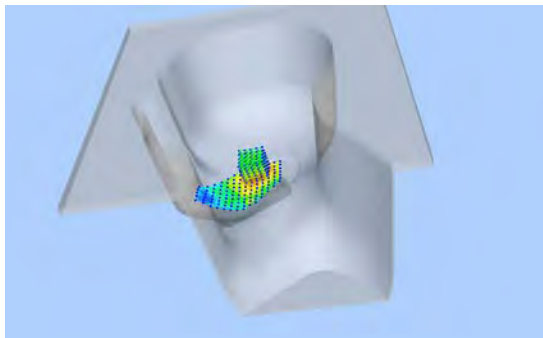
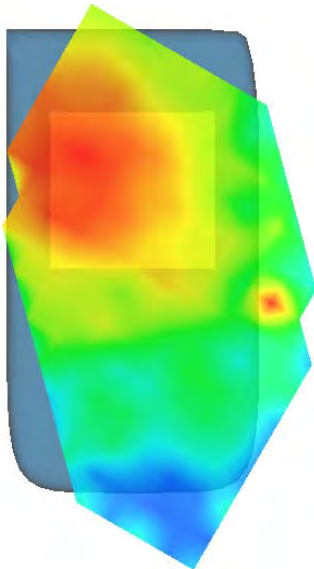


REPORT No. : SZ17080130S02
 Maximum location: X=-24.00, Y=0.00
 SAR Peak: 0.10 W/kg

SAR 10g (W/Kg)	0.043433
SAR 1g (W/Kg)	0.061037

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0937	0.0624	0.0437	0.0394	0.0318	0.0277	0.0195



3D screen shot	Hot spot position
	

**MEASUREMENT 63**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

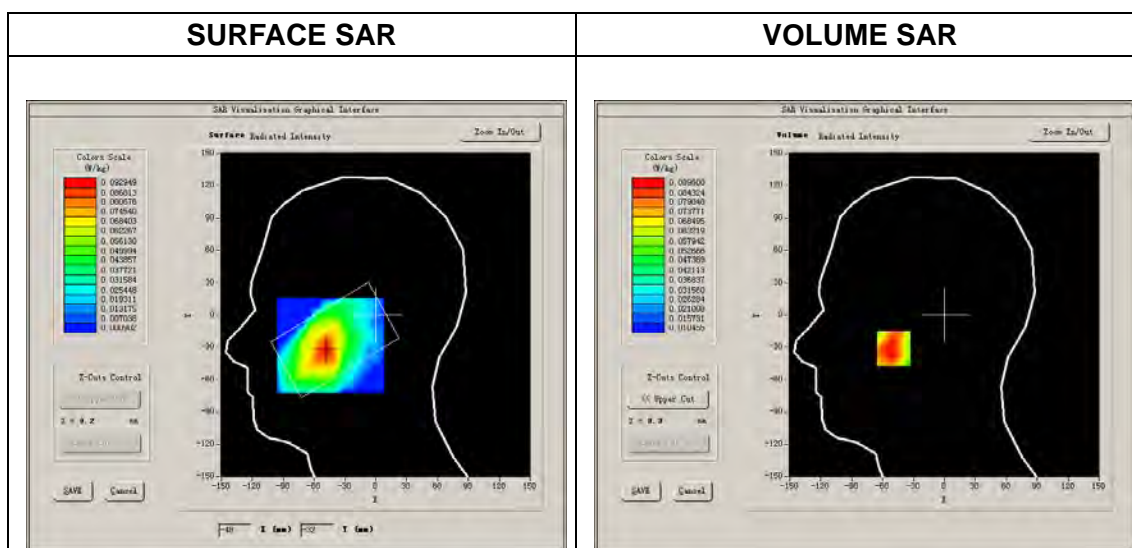
Measurement duration: 13 minutes 34 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 20525):

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.413521
Conductivity (S/m)	0.914834
Power drift (%)	1.800000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:1

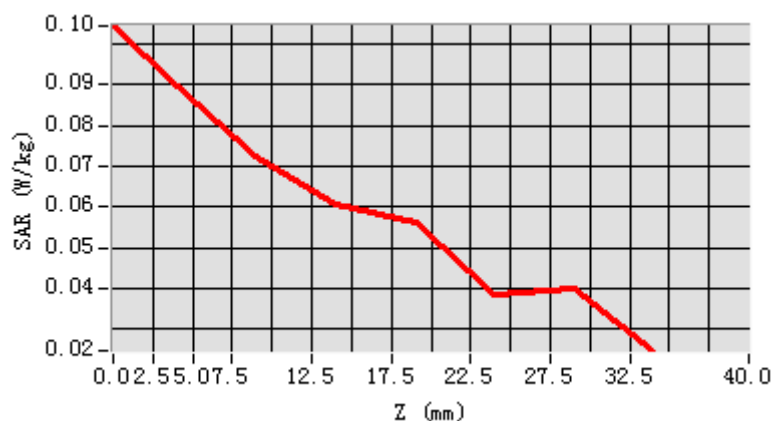


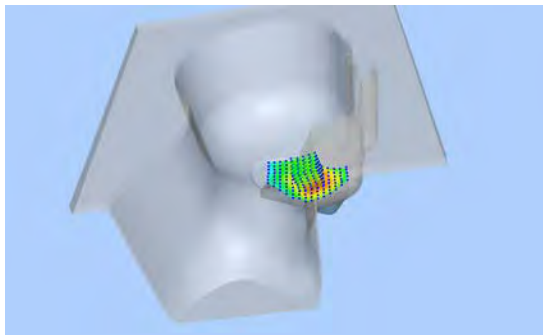
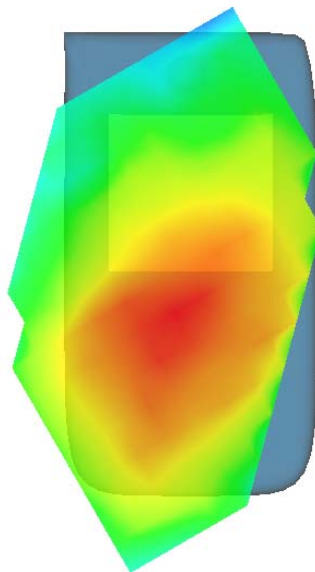


REPORT No. : SZ17080130S02
 Maximum location: X=-49.00, Y=-31.00
 SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.066438
SAR 1g (W/Kg)	0.087343

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1044	0.0896	0.0723	0.0607	0.0560	0.0384	0.0401



3D screen shot	Hot spot position
	

**MEASUREMENT 64**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

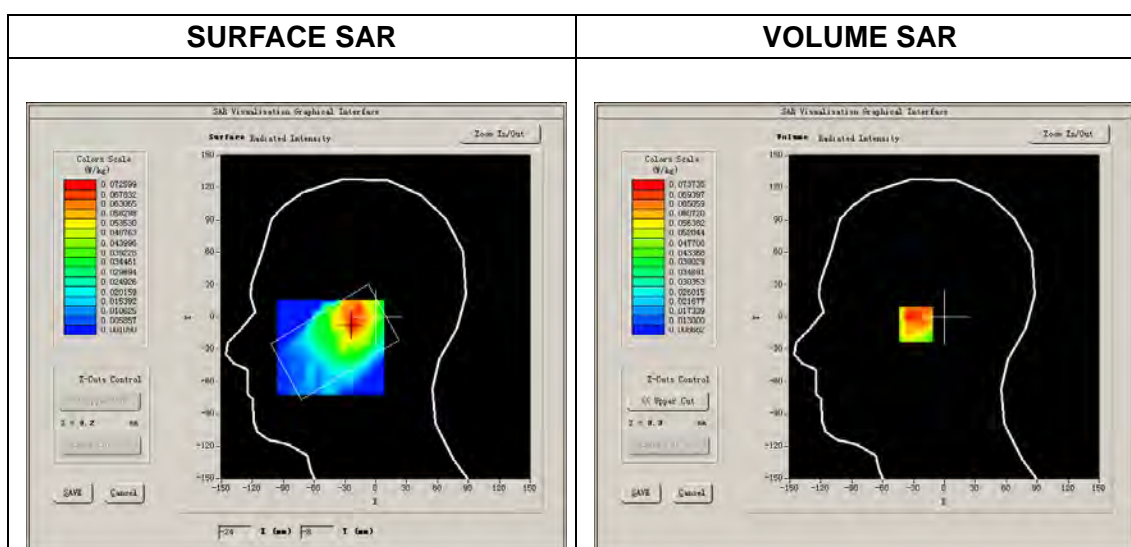
Measurement duration: 13 minutes 56 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 20525):

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.413521
Conductivity (S/m)	0.914834
Power drift (%)	1.800000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:1



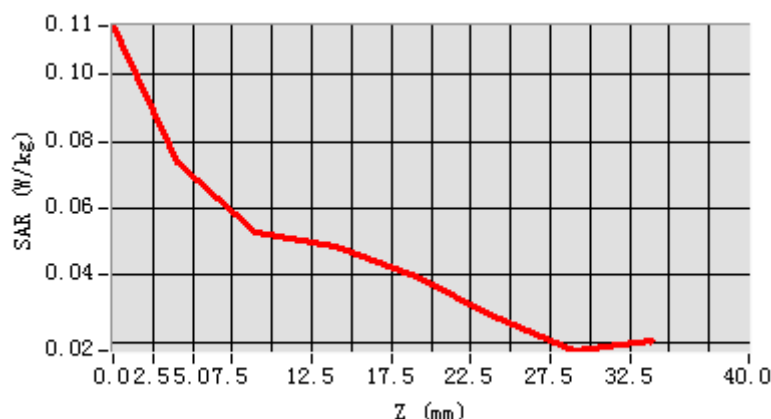


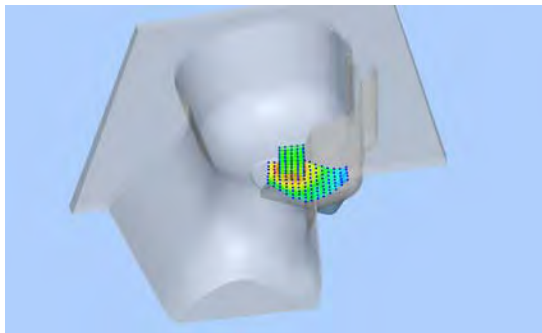
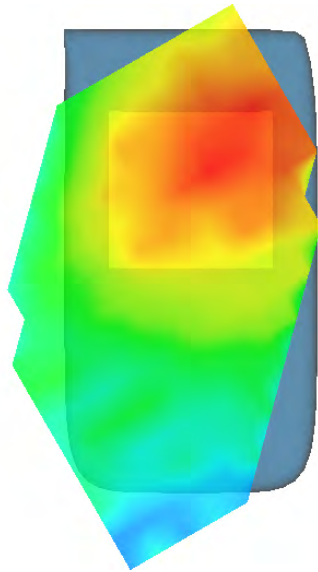
Maximum location: X=-23.00, Y=-7.00
 SAR Peak: 0.11 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.050869
SAR 1g (W/Kg)	0.070027

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1145	0.0737	0.0526	0.0487	0.0396	0.0277	0.0175



3D screen shot	Hot spot position
	

**MEASUREMENT 65**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

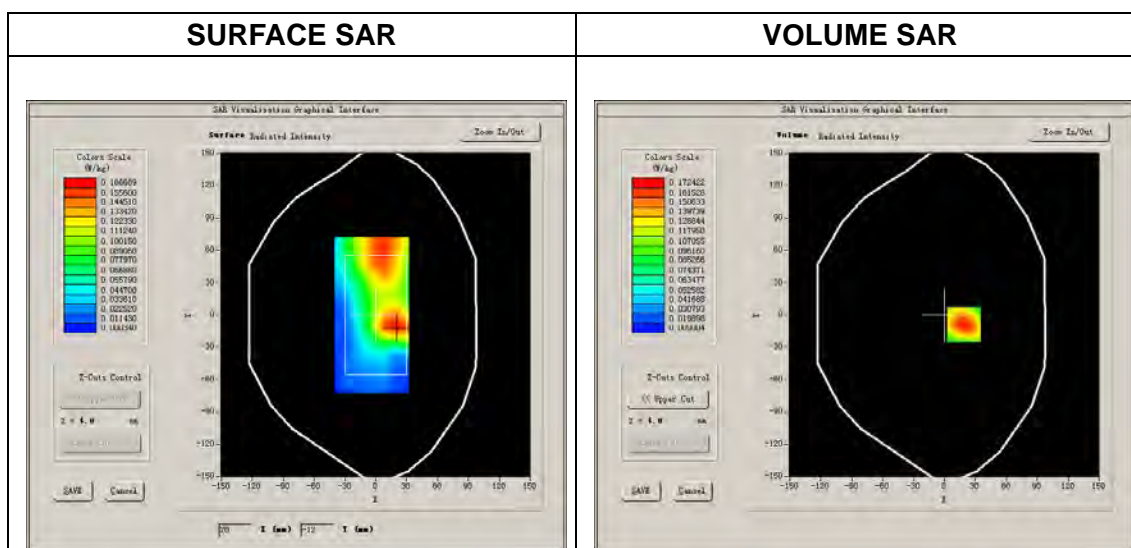
Measurement duration: 13 minutes 49 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 20525):

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.413521
Conductivity (S/m)	0.914834
Power drift (%)	1.800000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:1



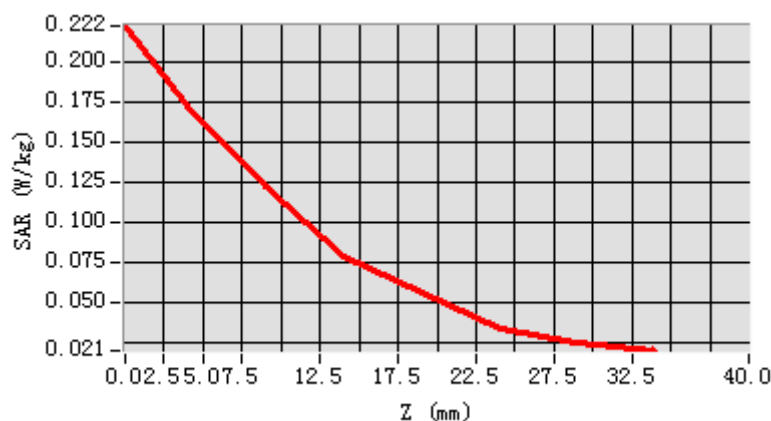


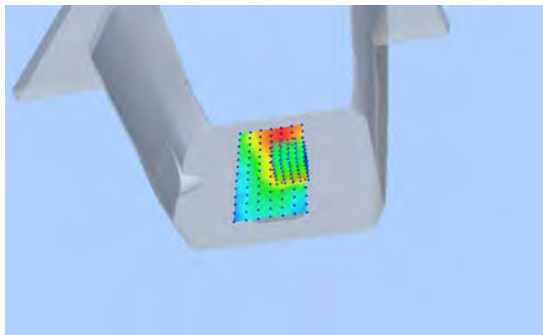
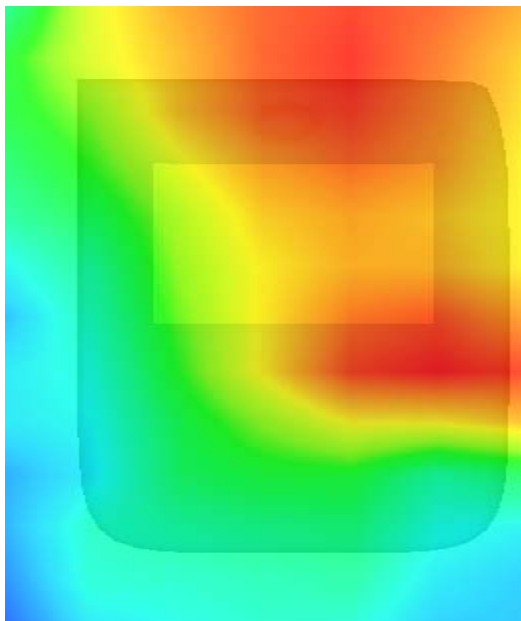
Maximum location: X=19.00, Y=-9.00
SAR Peak: 0.24 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.103289
SAR 1g (W/Kg)	0.163416

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2218	0.1724	0.1229	0.0789	0.0564	0.0347	0.0260



3D screen shot	Hot spot position
	

**MEASUREMENT 66**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

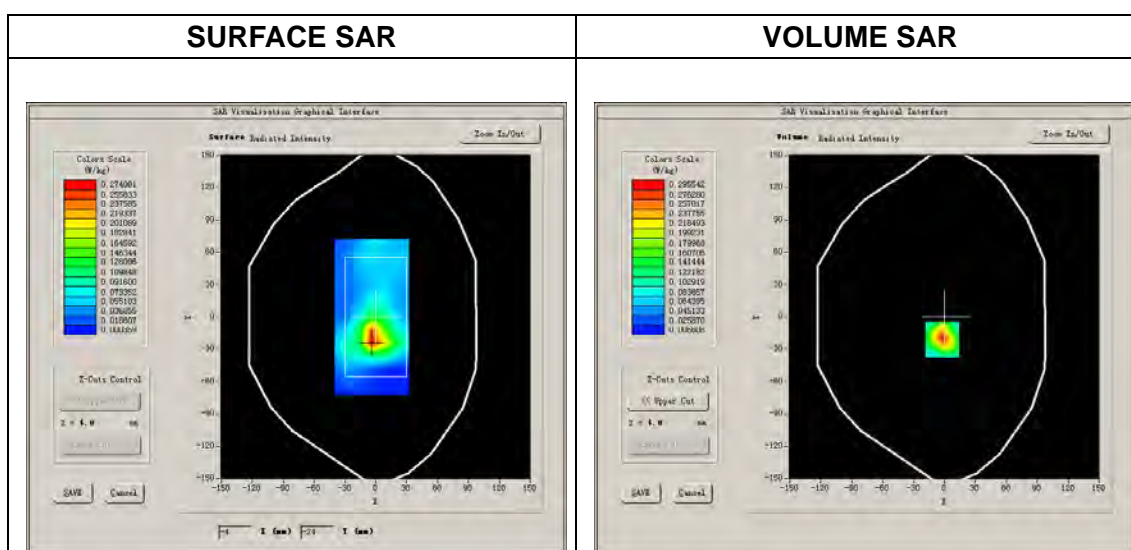
Measurement duration: 13 minutes 54 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 20525):

Frequency (MHz)	836.500000
Relative permittivity (real part)	41.413521
Conductivity (S/m)	0.914834
Power drift (%)	1.800000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	6.13
Crest factor:	1:1



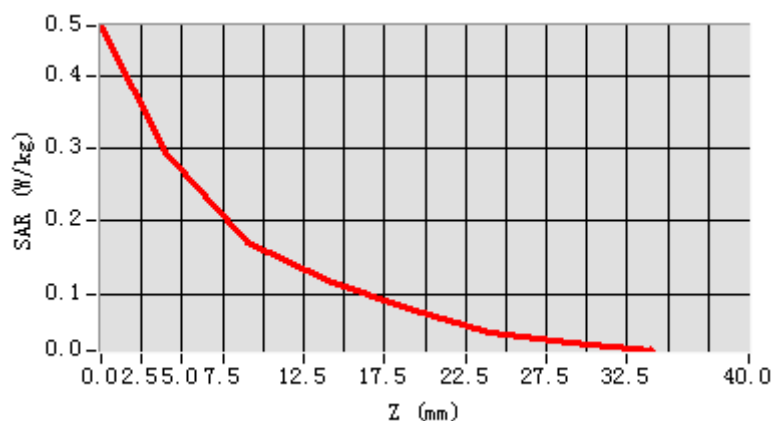


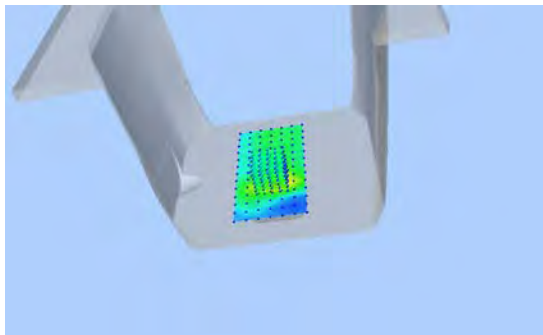
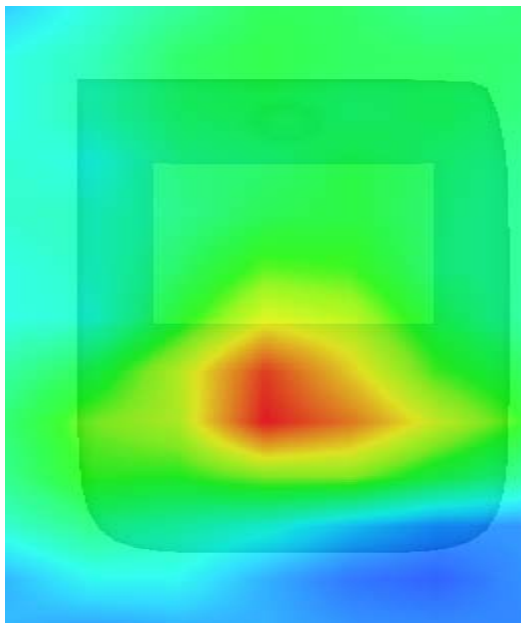
Maximum location: X=-2.00, Y=-21.00
SAR Peak: 0.46 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.148255
SAR 1g (W/Kg)	0.277257

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4695	0.2955	0.1696	0.1183	0.0810	0.0467	0.0340



3D screen shot	Hot spot position
	

**MEASUREMENT 67**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

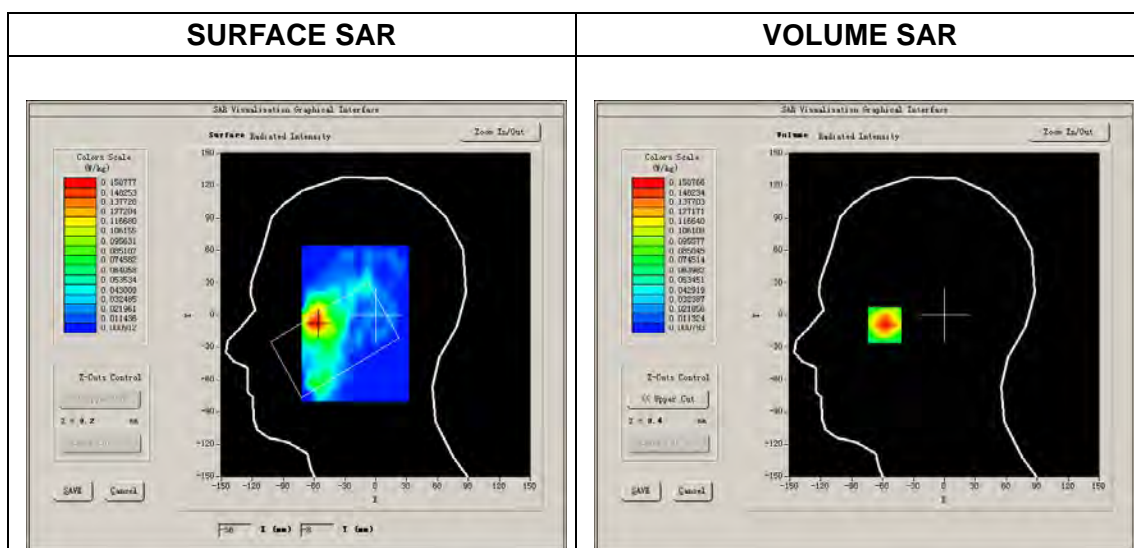
Measurement duration: 13 minutes 46 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>zinf5.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 21100):

Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-2.040000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.74
Crest factor:	1:1



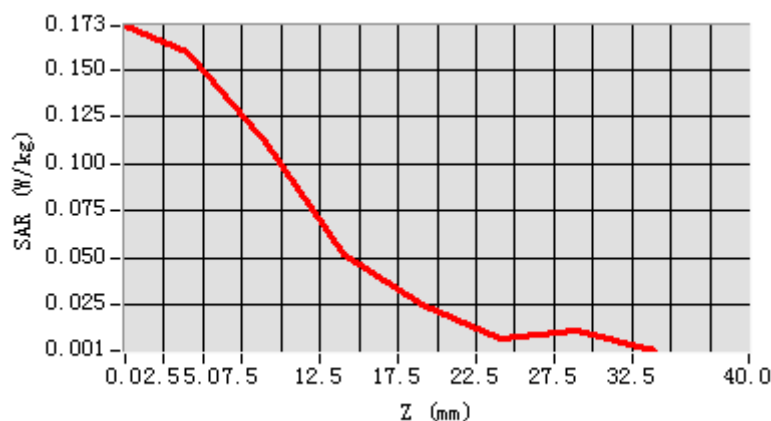


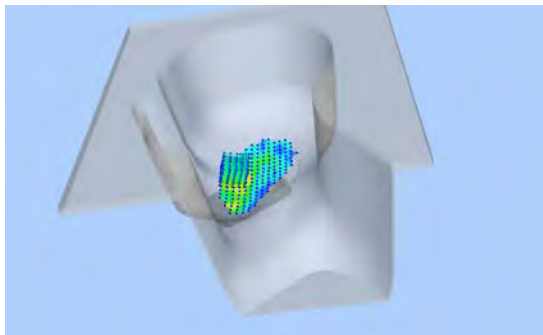
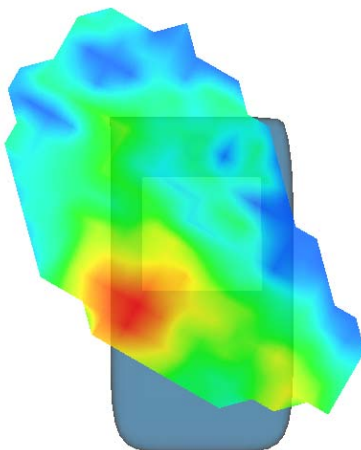
Maximum location: X=-58.00, Y=-7.00 REPORT No. : SZ17080130S02

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.077204
SAR 1g (W/Kg)	0.146361

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1731	0.1588	0.1114	0.0524	0.0256	0.0068	0.0112



3D screen shot	Hot spot position
	

**MEASUREMENT 68**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 52 seconds

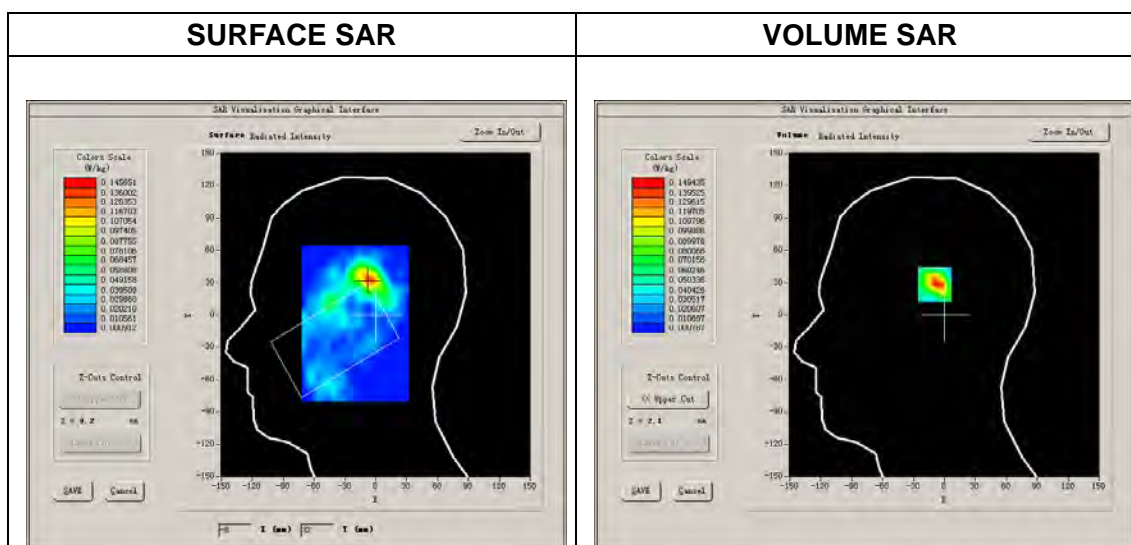
A. Experimental conditions.

<u>Phantom File</u>	<u>zinf5.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 21100):

Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-2.040000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.74
Crest factor:	1:1

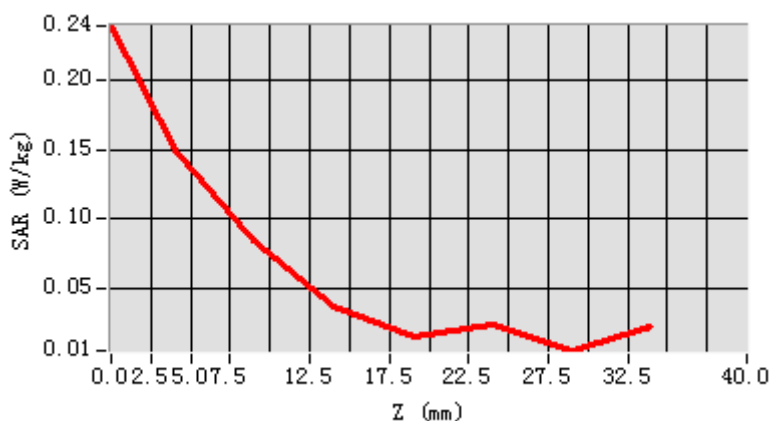


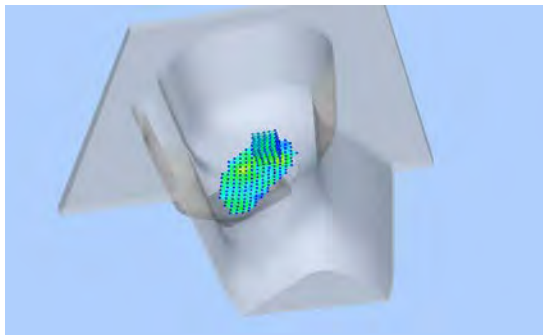
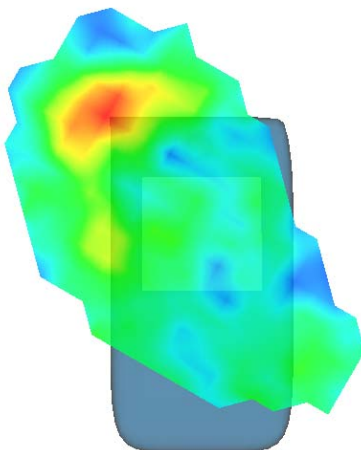


REPORT No. : SZ17080130S02
 Maximum location: X=-7.00, Y=32.00
 SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.061750
SAR 1g (W/Kg)	0.143613

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2394	0.1494	0.0841	0.0370	0.0146	0.0244	0.0052



3D screen shot	Hot spot position
	

**MEASUREMENT 69**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

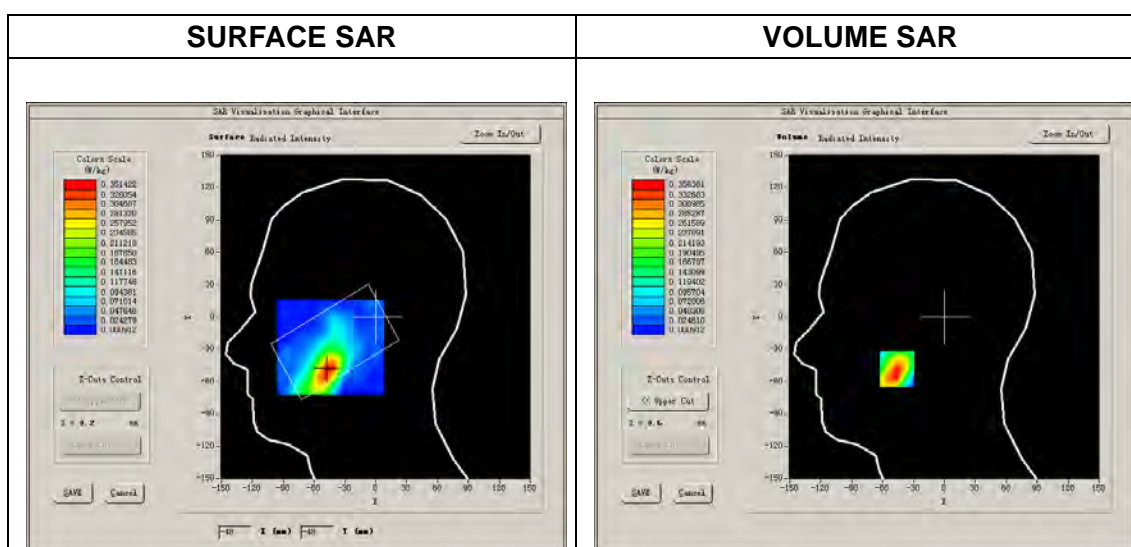
Measurement duration: 13 minutes 47 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 21100):

Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-2.040000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.74
Crest factor:	1:1

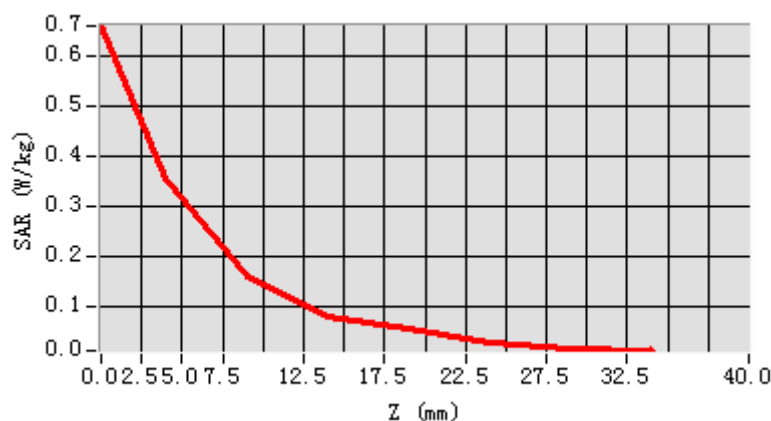


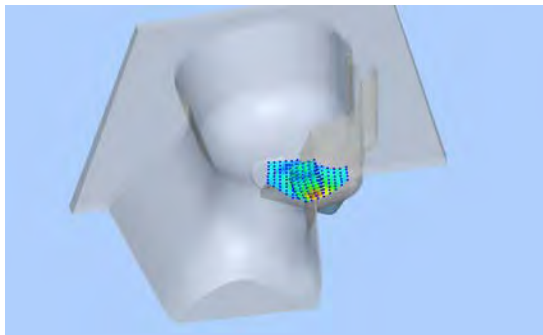
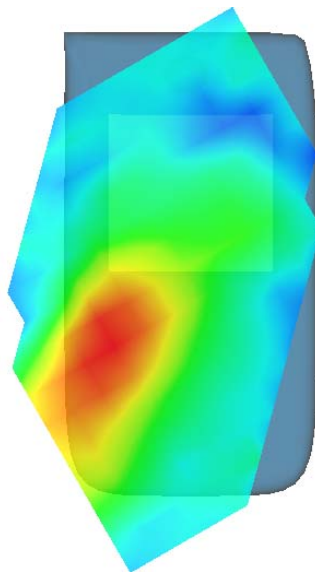


Maximum location: X=-46.00, Y=-48.00
 REPORT No. : SZ17080130S02
 SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.163946
SAR 1g (W/Kg)	0.342858

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6607	0.3564	0.1598	0.0785	0.0553	0.0266	0.0155



3D screen shot	Hot spot position
	

**MEASUREMENT 70**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 40 seconds

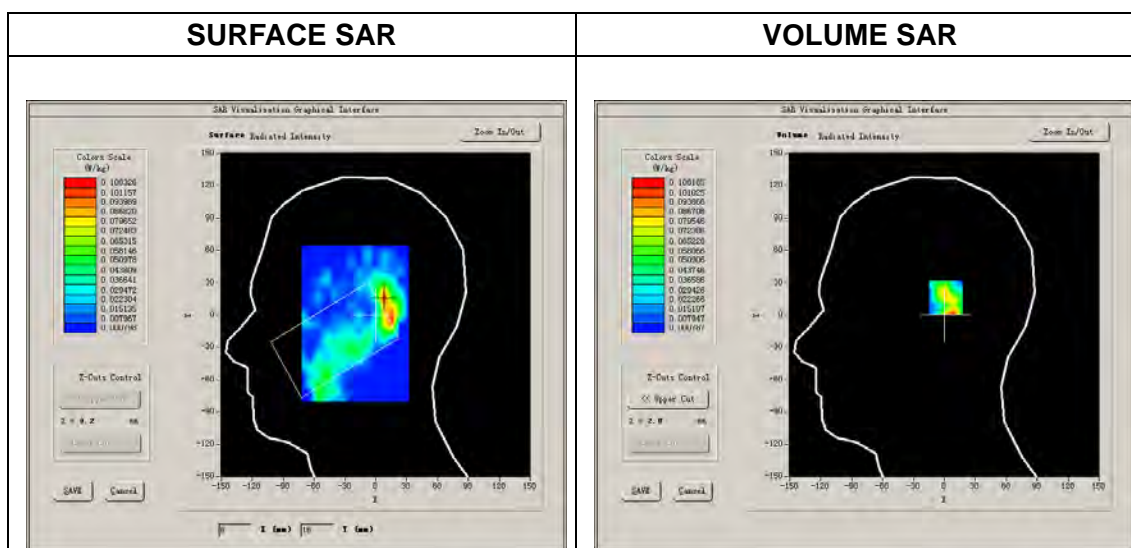
A. Experimental conditions.

<u>Phantom File</u>	<u>zinf5.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 21100):

Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-2.040000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.74
Crest factor:	1:1



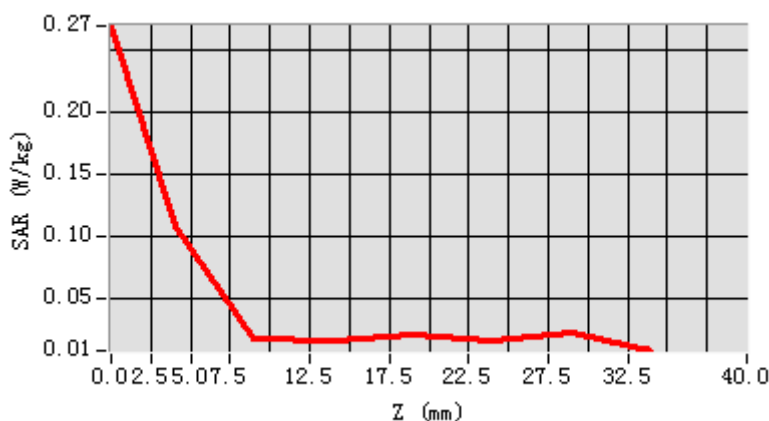


Maximum location: X=8.00, Y=16.00
 SAR Peak: 0.22 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.041511
SAR 1g (W/Kg)	0.078320

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2700	0.1082	0.0177	0.0154	0.0207	0.0145	0.0218



3D screen shot	Hot spot position

**MEASUREMENT 71**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 49 seconds

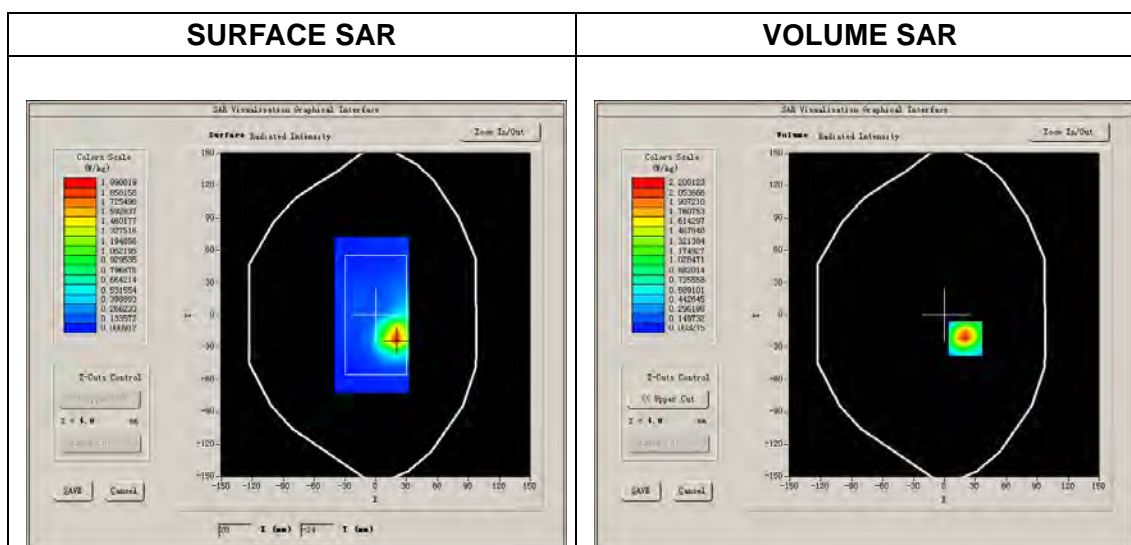
A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 21100):

Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-2.040000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.74
Crest factor:	1:1

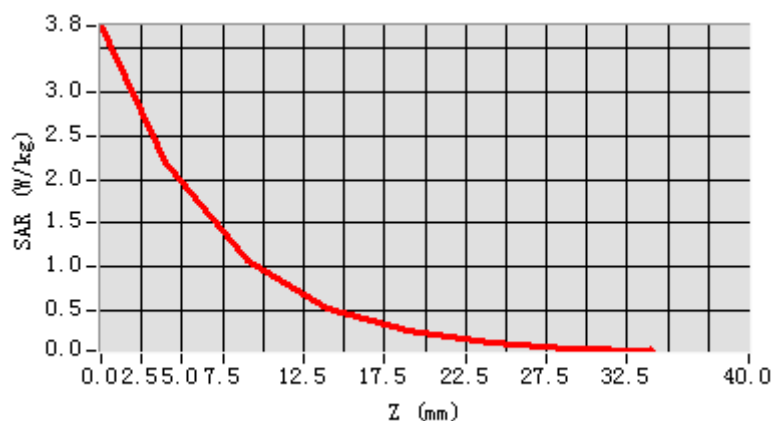


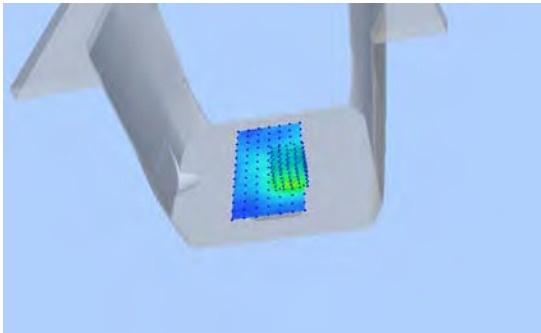
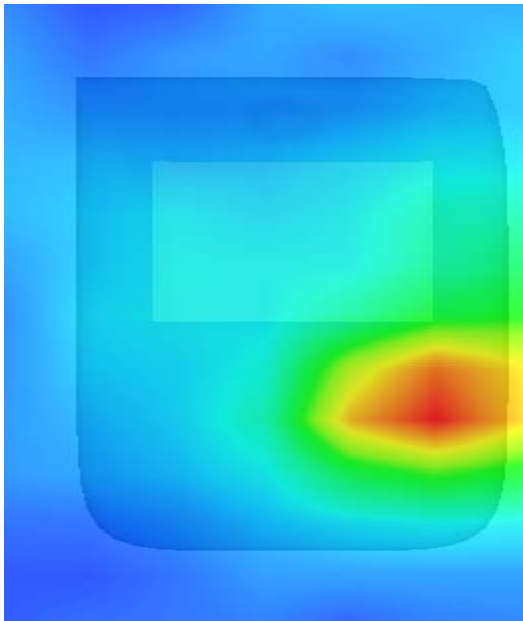


REPORT No. : SZ17080130S02
Maximum location: X=20.00, Y=-22.00
SAR Peak: 3.81 W/kg

SAR 10g (W/Kg)	0.911242
SAR 1g (W/Kg)	2.069094

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.7648	2.2001	1.0625	0.5158	0.2548	0.1278	0.0533



3D screen shot	Hot spot position
	

**MEASUREMENT 72**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

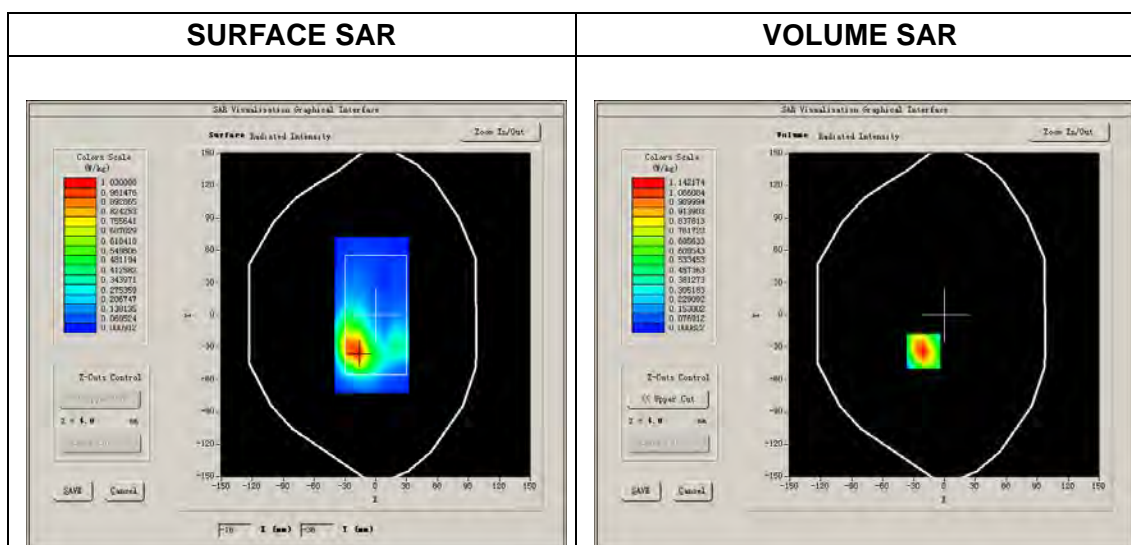
Measurement duration: 13 minutes 54 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 7</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 21100):

Frequency (MHz)	2535.000000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-2.040000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.74
Crest factor:	1:1



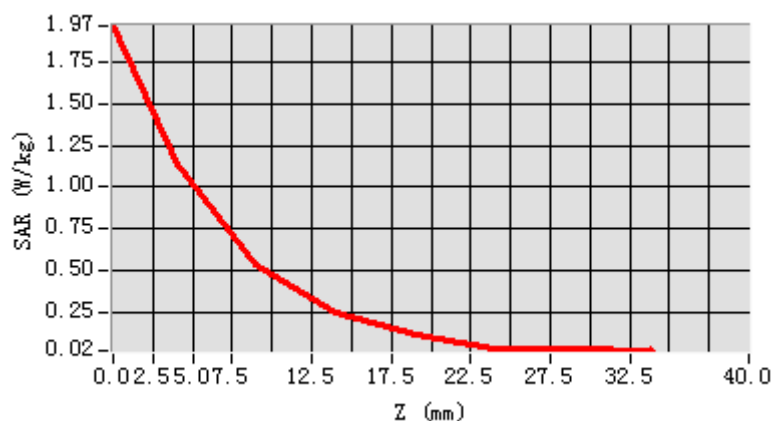


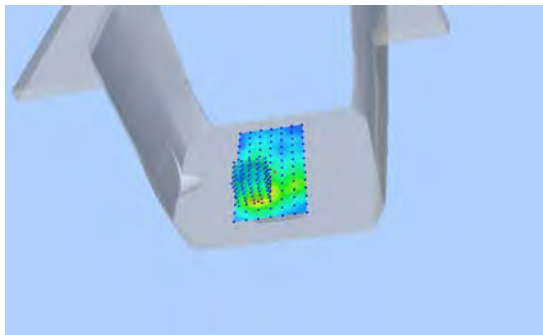
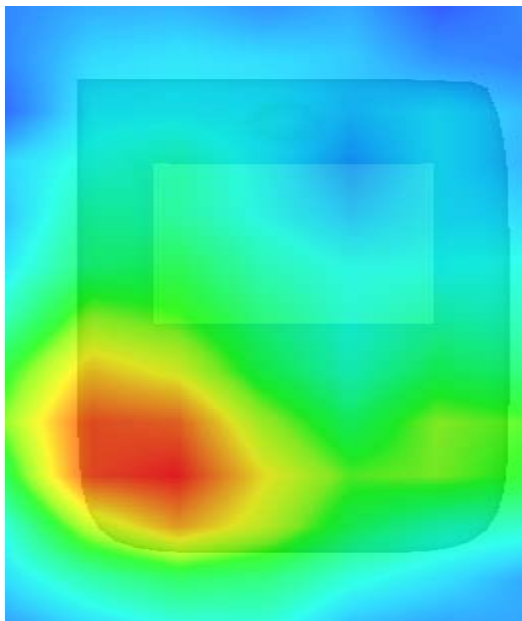
Maximum location: X=-20.00, Y=-34.00
SAR Peak: 1.99 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.508795
SAR 1g (W/Kg)	1.084189

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.9657	1.1422	0.5323	0.2535	0.1201	0.0283	0.0288



3D screen shot	Hot spot position
	

**MEASUREMENT 73**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

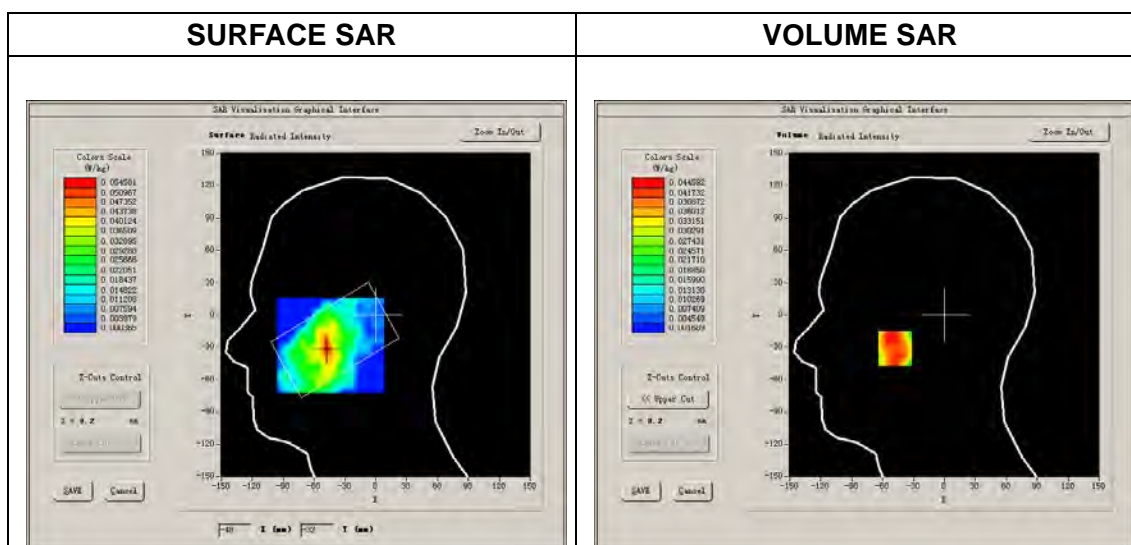
Measurement duration: 13 minutes 33 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 8</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 21625):

Frequency (MHz)	897.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



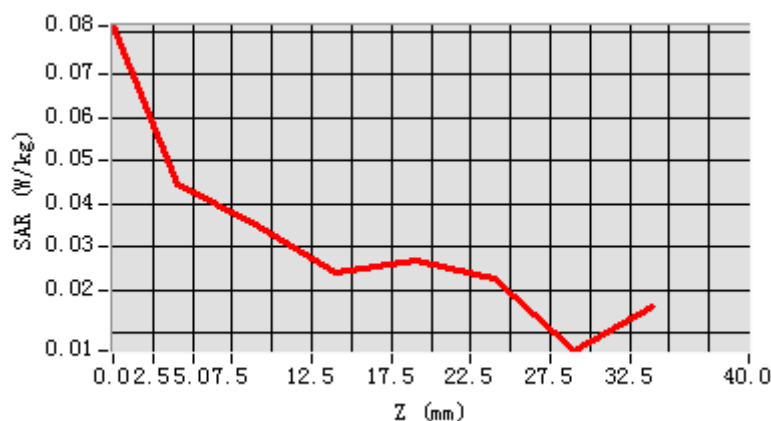


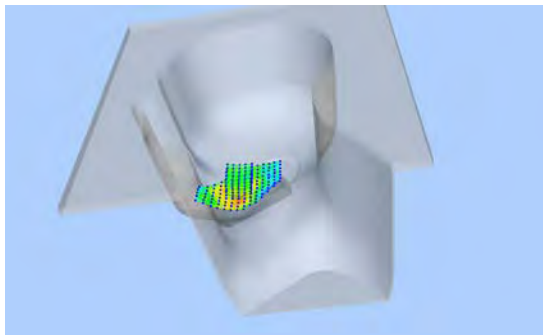
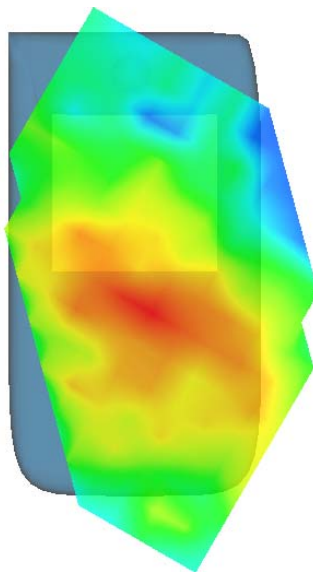
Maximum location: X=-48.00, Y=-31.00
 SAR Peak: 0.08 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.032670
SAR 1g (W/Kg)	0.049056

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0814	0.0446	0.0352	0.0242	0.0270	0.0227	0.0060



3D screen shot	Hot spot position
	

**MEASUREMENT 74**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

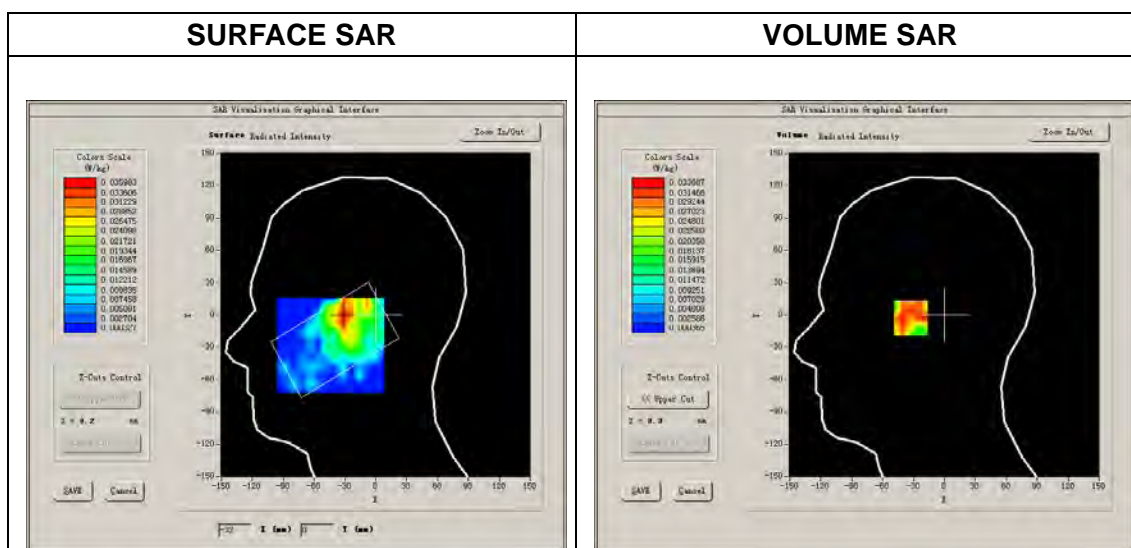
Measurement duration: 13 minutes 59 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 8</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 21625):

Frequency (MHz)	897.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



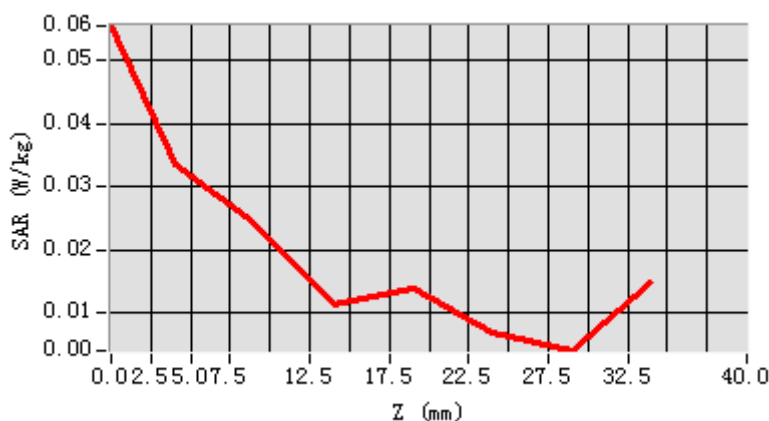


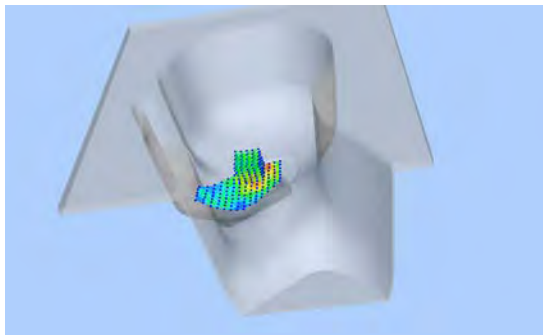
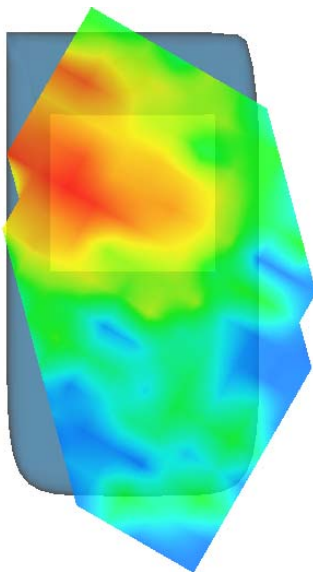
Maximum location: X=-31.00, Y=-1.00
 SAR Peak: 0.07 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.021416
SAR 1g (W/Kg)	0.036642

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0555	0.0337	0.0245	0.0113	0.0138	0.0068	0.0040



3D screen shot	Hot spot position
	

**MEASUREMENT 75**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

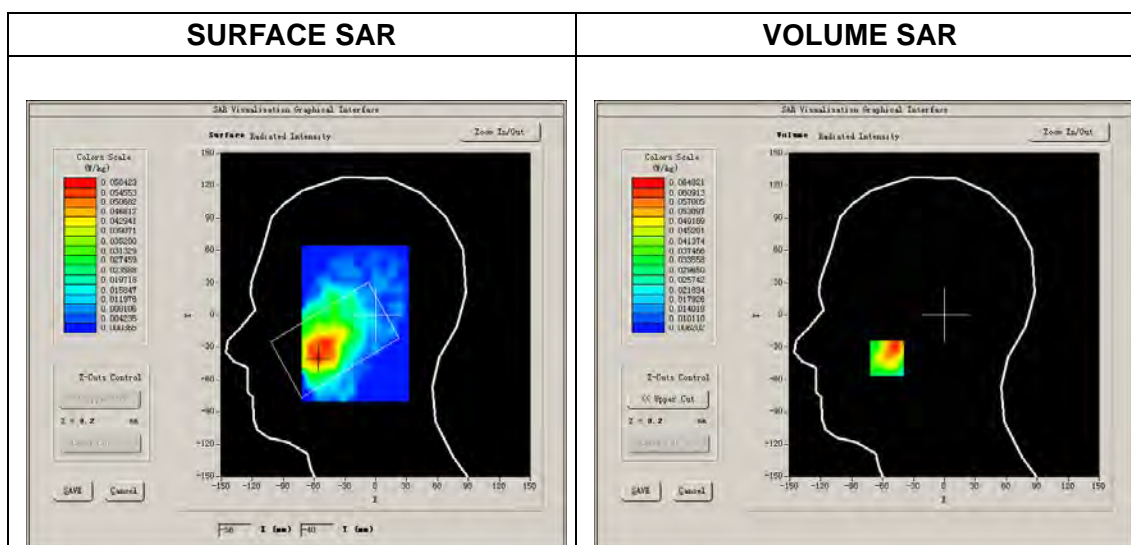
Measurement duration: 13 minutes 51 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>zinf5.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 8</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 21625):

Frequency (MHz)	897.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1

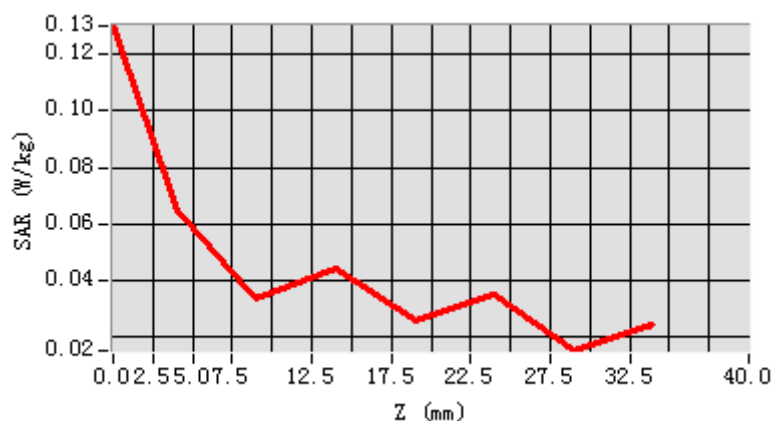


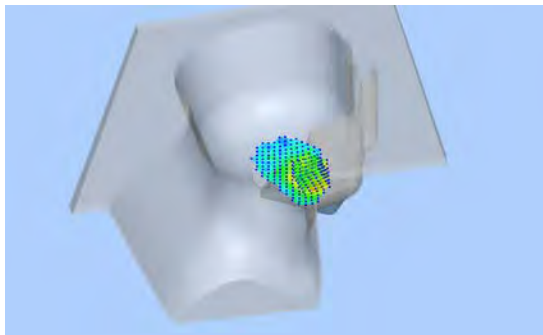
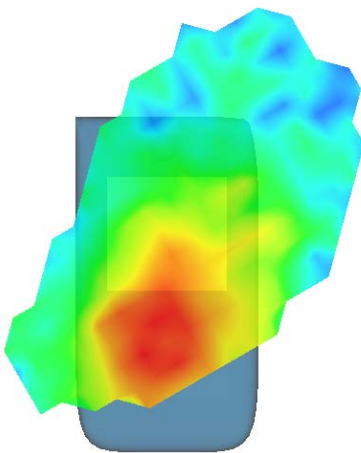


Maximum location: X=-56.00, Y=-40.00
 REPORT No. : SZ17080130S02
 SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.042885
SAR 1g (W/Kg)	0.060741

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1302	0.0648	0.0334	0.0445	0.0260	0.0351	0.0151



3D screen shot	Hot spot position
	

**MEASUREMENT 76**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

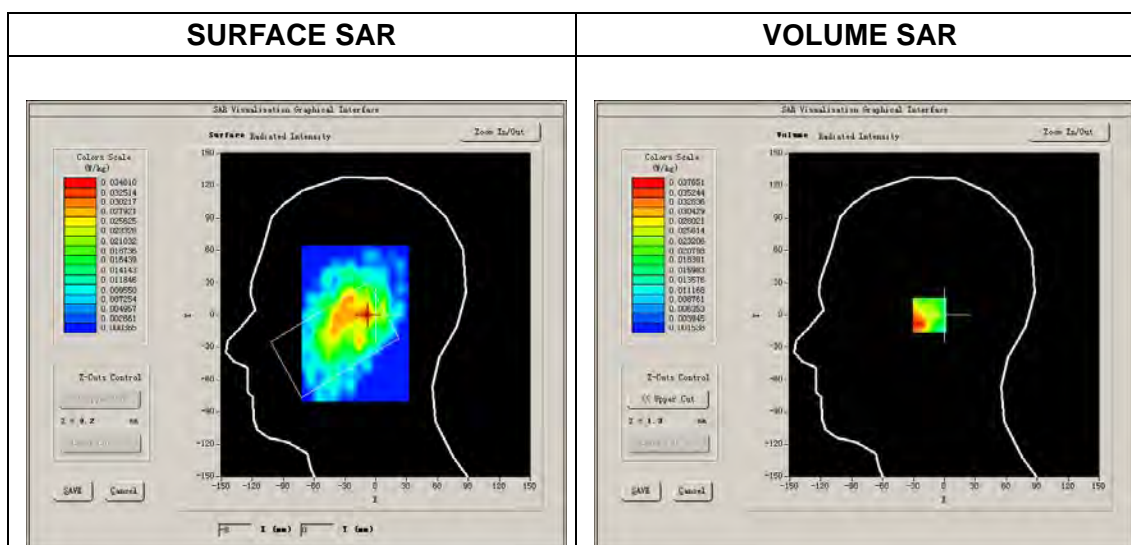
Measurement duration: 13 minutes 42 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>zinf5.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 8</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 21625):

Frequency (MHz)	897.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1

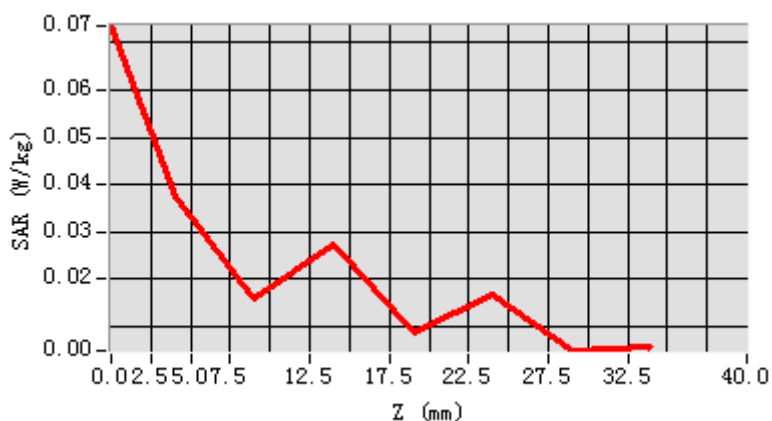


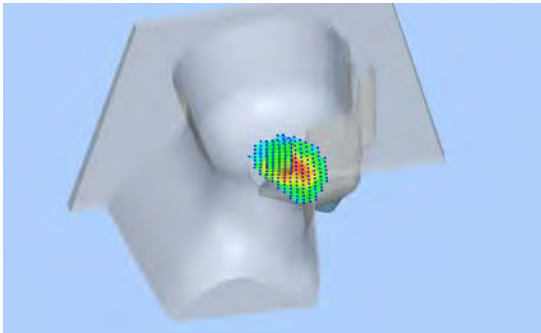
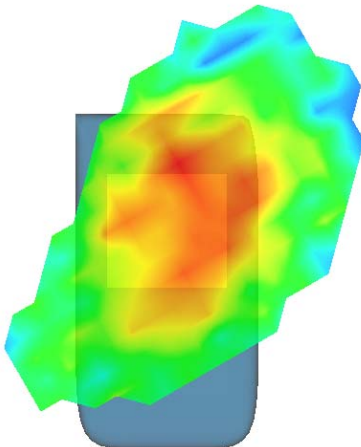


REPORT No. : SZ17080130S02
 Maximum location: X=-9.00, Y=0.00
 SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.023298
SAR 1g (W/Kg)	0.040980

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0736	0.0377	0.0157	0.0273	0.0086	0.0164	0.0047



3D screen shot	Hot spot position
	

**MEASUREMENT 77**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

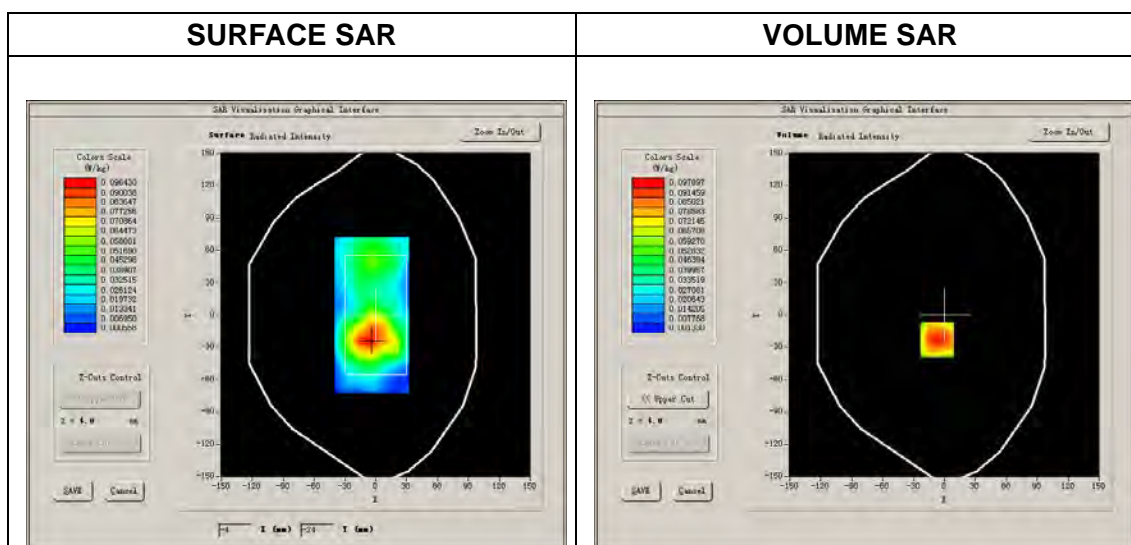
Measurement duration: 13 minutes 49 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 8</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 21625):

Frequency (MHz)	897.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



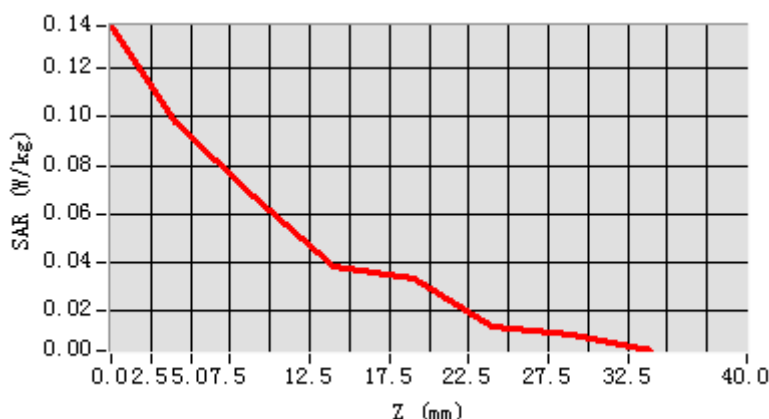


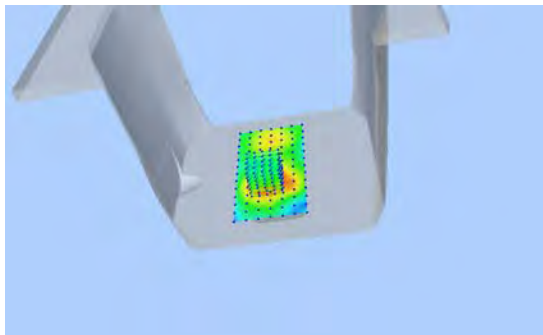
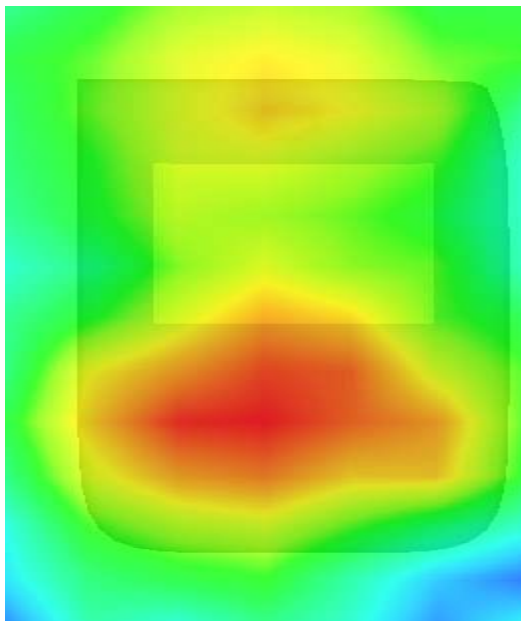
Maximum location: X=-7.00, Y=-23.00
 SAR Peak: 0.15 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.058350
SAR 1g (W/Kg)	0.096421

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1379	0.0979	0.0667	0.0383	0.0333	0.0133	0.0097



3D screen shot	Hot spot position
	

**MEASUREMENT 78**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

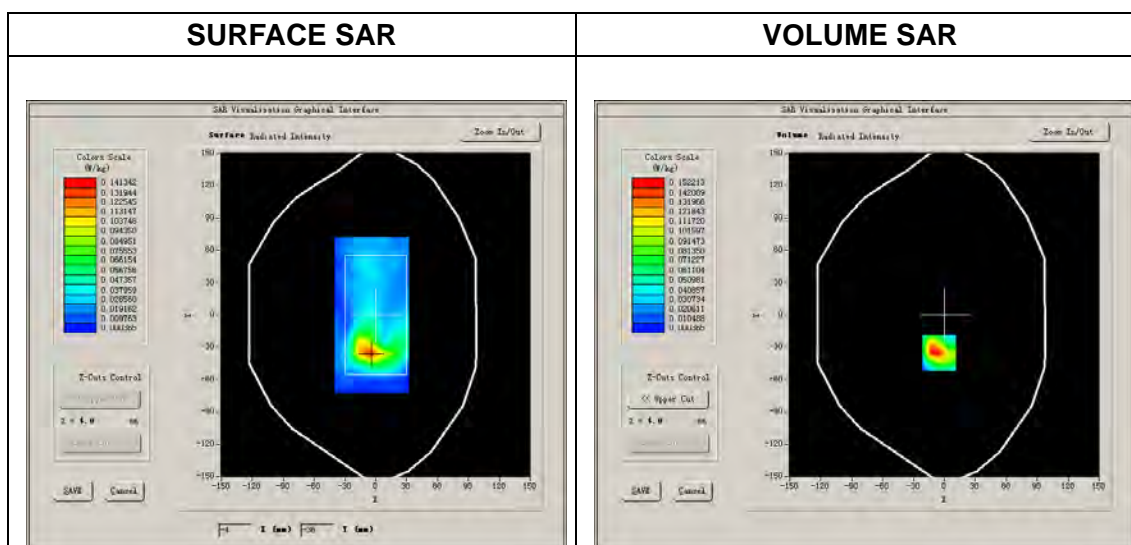
Measurement duration: 13 minutes 46 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 8</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 21625):

Frequency (MHz)	897.500000
Relative permittivity (real part)	39.204915
Conductivity (S/m)	1.846198
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



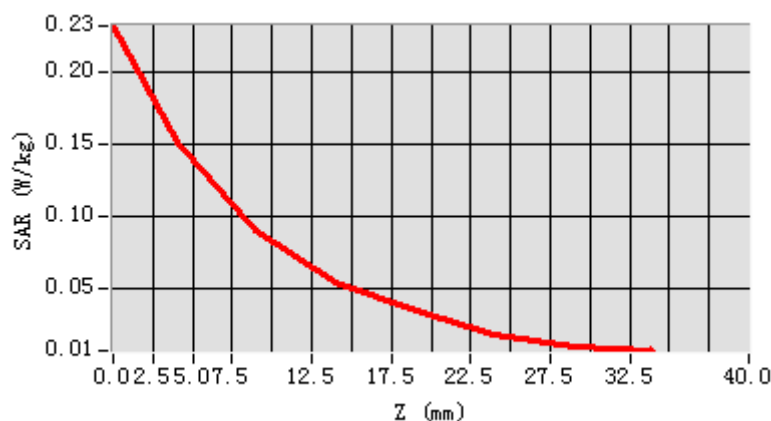


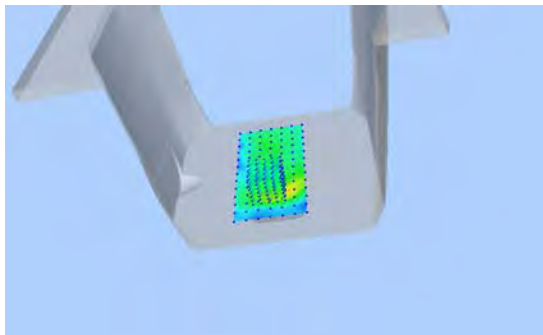
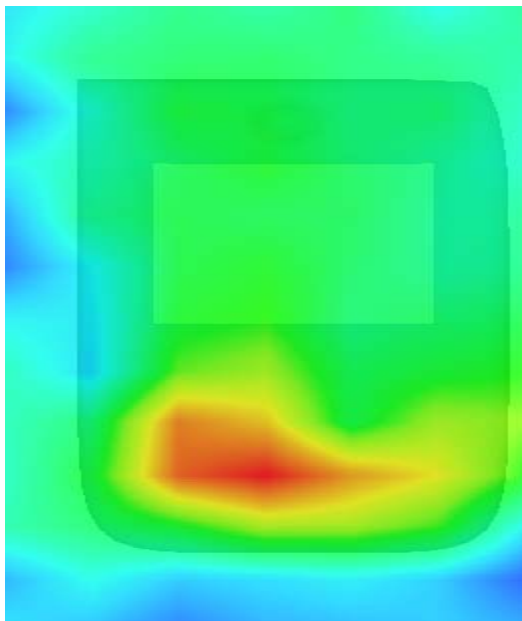
Maximum location: X=-5.00, Y=-35.00
SAR Peak: 0.27 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.070841
SAR 1g (W/Kg)	0.150656

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2328	0.1522	0.0905	0.0539	0.0345	0.0180	0.0093



3D screen shot	Hot spot position
	

**MEASUREMENT 79**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

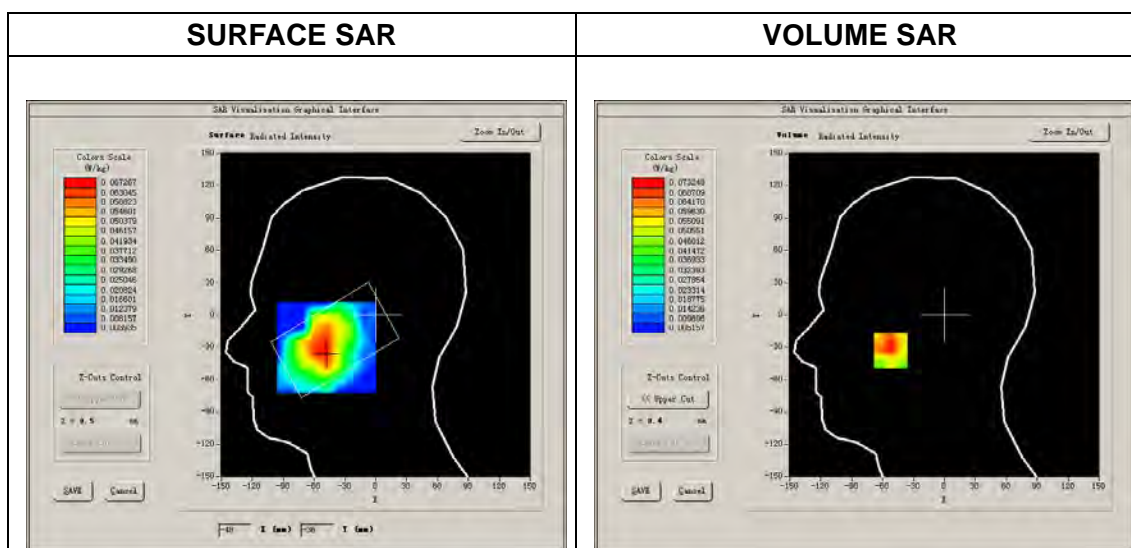
Measurement duration: 13 minutes 59 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 20</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 24300):

Frequency (MHz)	847.000000
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.912878
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



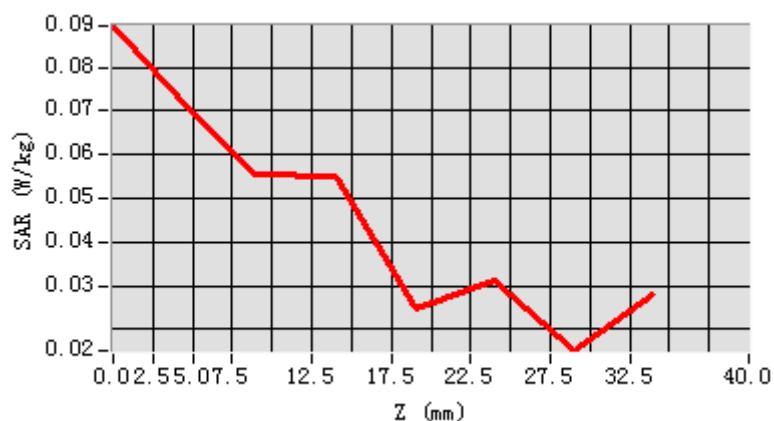


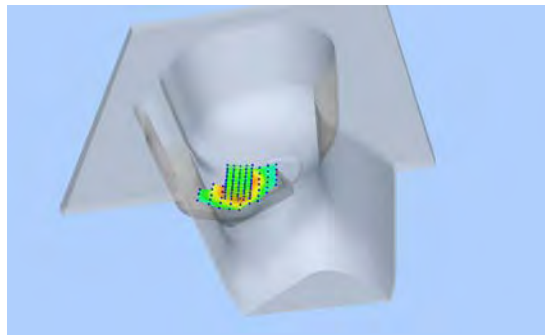
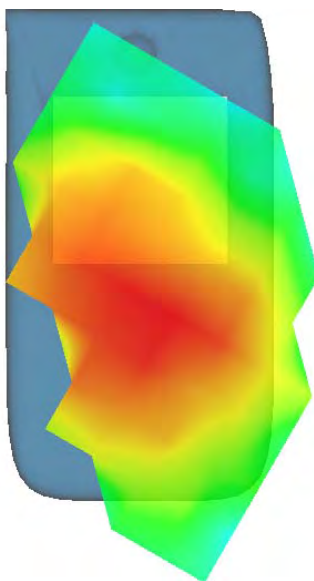
Maximum location: X=-52.00, Y=-33.00
SAR Peak: 0.11 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.052235
SAR 1g (W/Kg)	0.071766

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0894	0.0732	0.0557	0.0552	0.0249	0.0311	0.0152



3D screen shot	Hot spot position
	

**MEASUREMENT 80**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

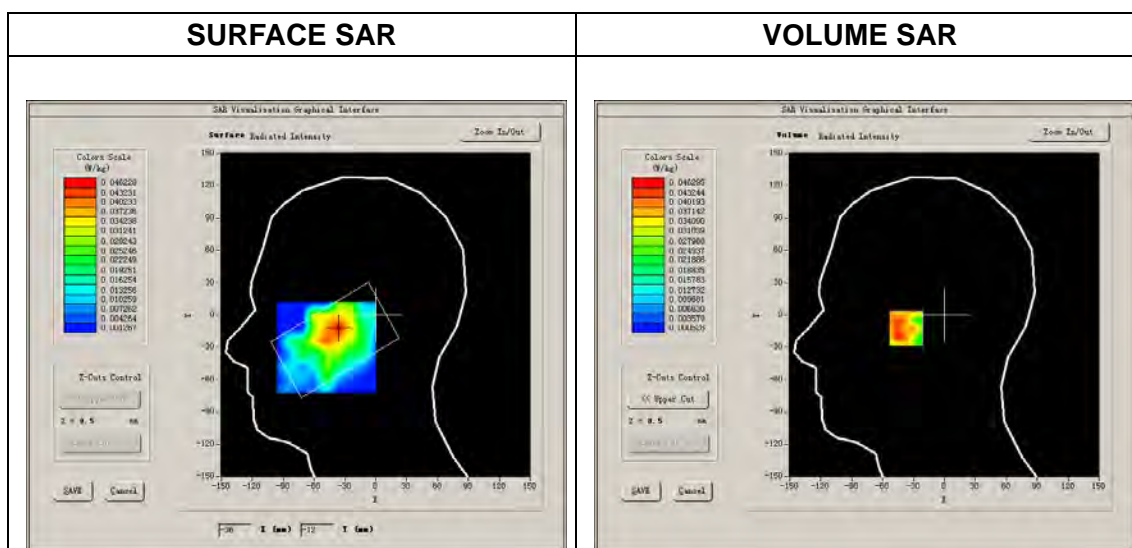
Measurement duration: 13 minutes 39 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 20</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 24300):

Frequency (MHz)	847.000000
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.912878
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



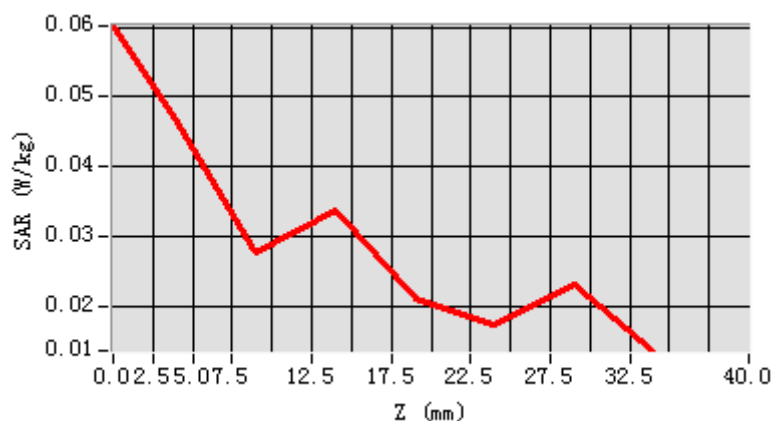


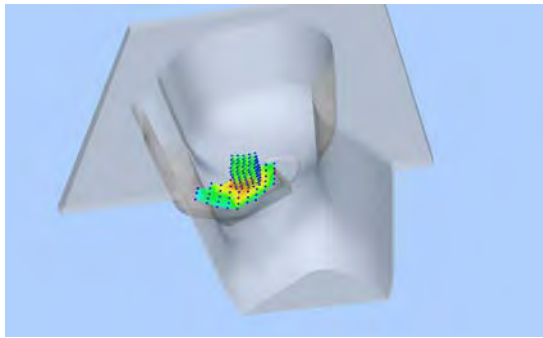
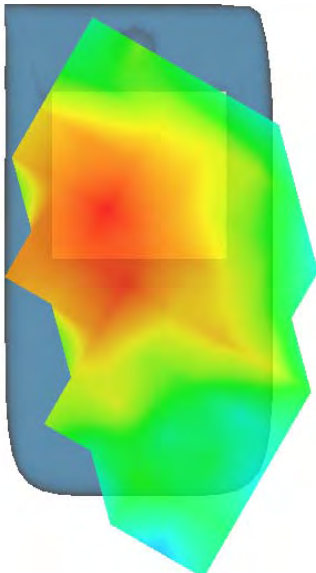
Maximum location: X=-36.00, Y=-12.00 REPORT No. : SZ17080130S02

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.030135
SAR 1g (W/Kg)	0.042363

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0602	0.0463	0.0278	0.0338	0.0212	0.0172	0.0230



3D screen shot	Hot spot position
	

**MEASUREMENT 81**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

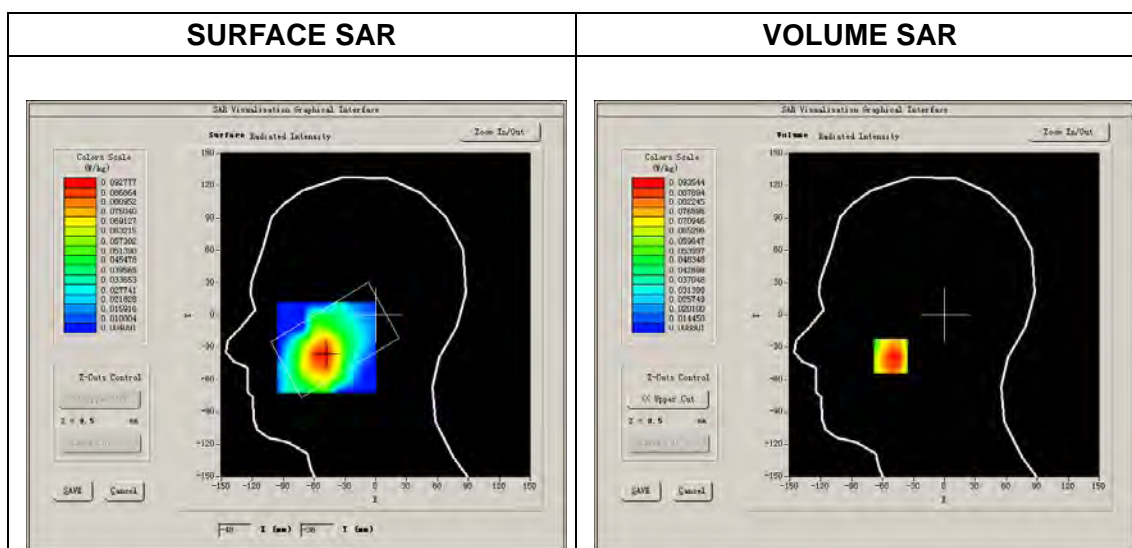
Measurement duration: 13 minutes 4 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 20</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 24300):

Frequency (MHz)	847.000000
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.912878
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



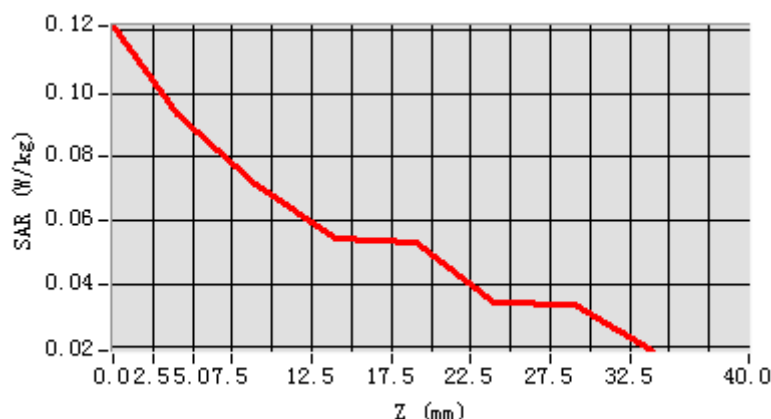


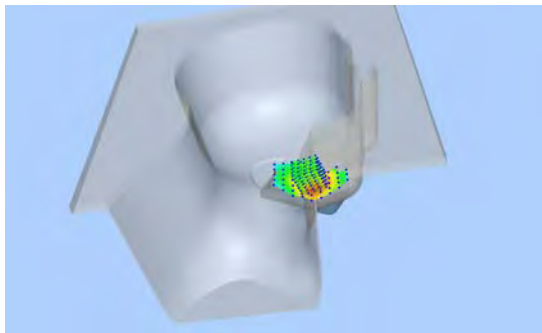
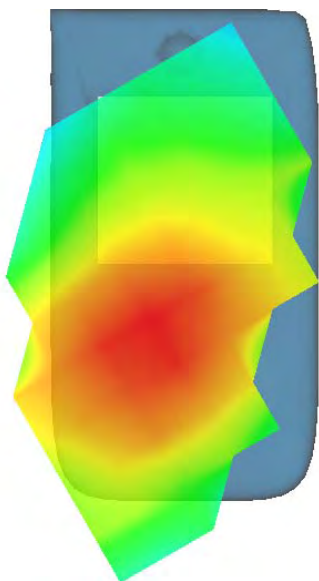
Maximum location: X=-52.00, Y=-38.00
 SAR Peak: 0.12 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.069077
SAR 1g (W/Kg)	0.089717

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1212	0.0935	0.0715	0.0541	0.0530	0.0338	0.0333



3D screen shot	Hot spot position
	

**MEASUREMENT 82**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

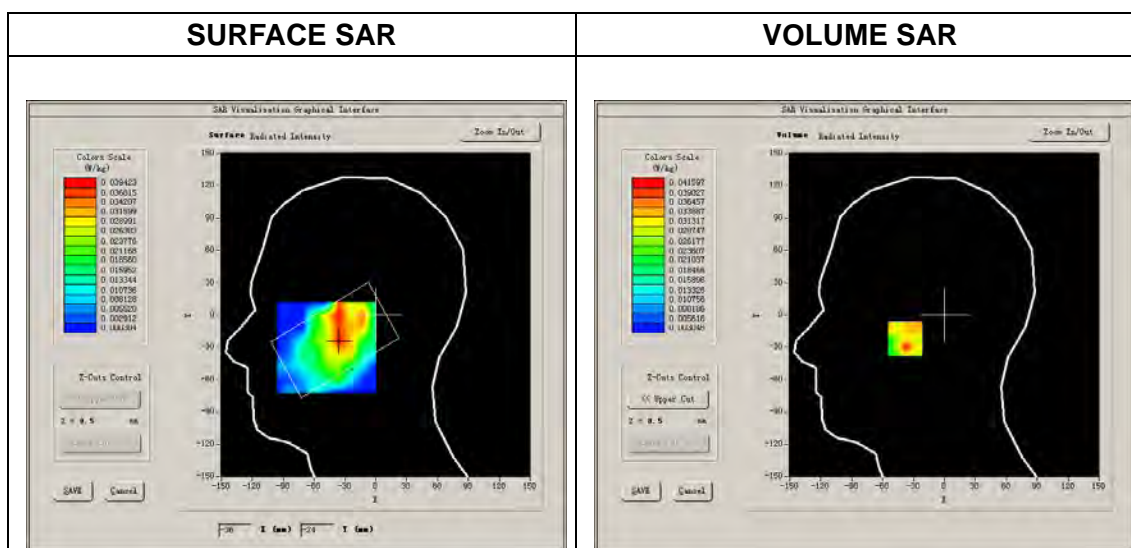
Measurement duration: 13 minutes 34 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 20</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 24300):

Frequency (MHz)	847.000000
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.912878
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



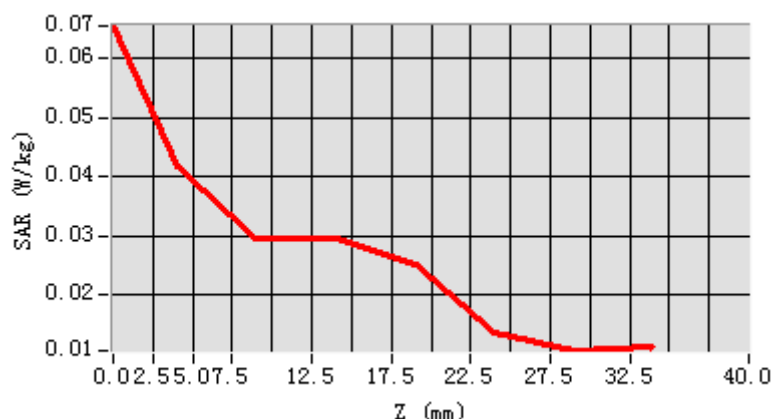


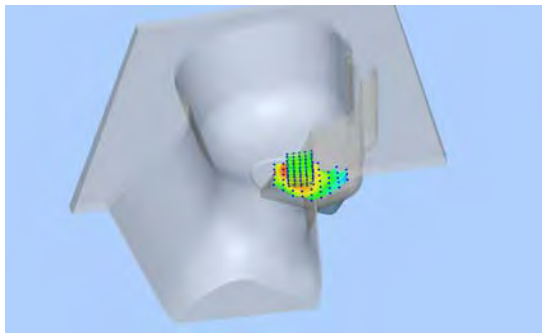
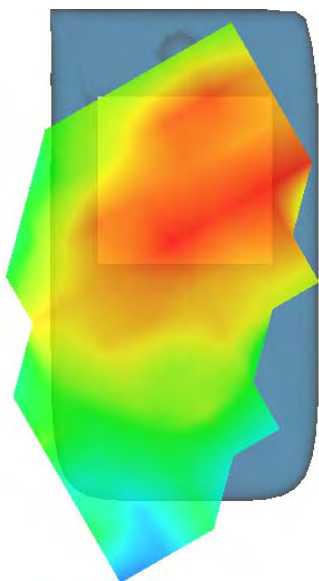
Maximum location: X=-35.00, Y=-22.00
 SAR Peak: 0.06 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.028006
SAR 1g (W/Kg)	0.037781

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0655	0.0416	0.0295	0.0295	0.0252	0.0137	0.0105



3D screen shot	Hot spot position
	

**MEASUREMENT 83**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

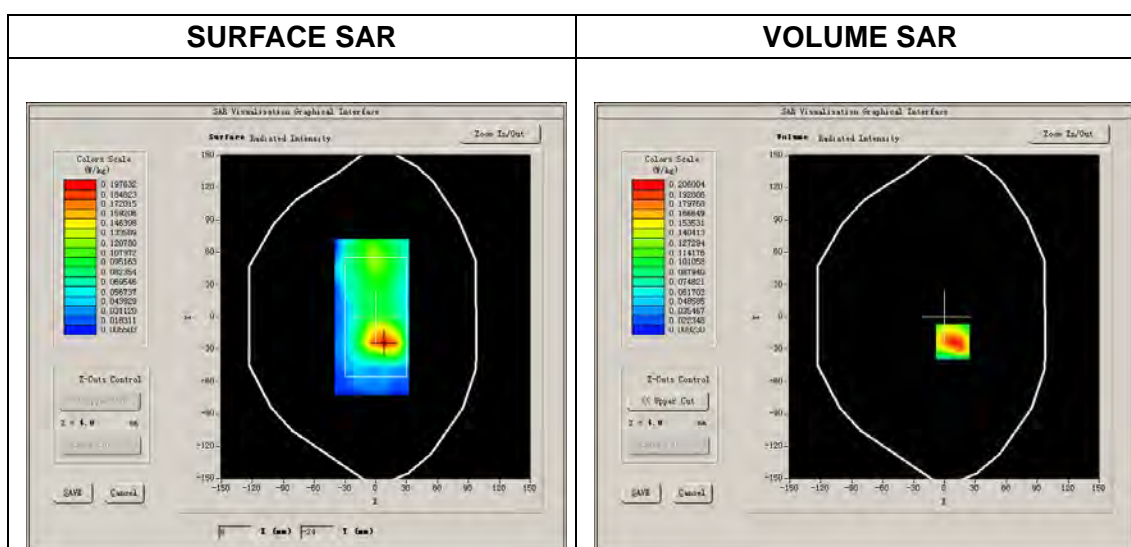
Measurement duration: 13 minutes 50 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 20</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 24300):

Frequency (MHz)	847.000000
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.912878
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



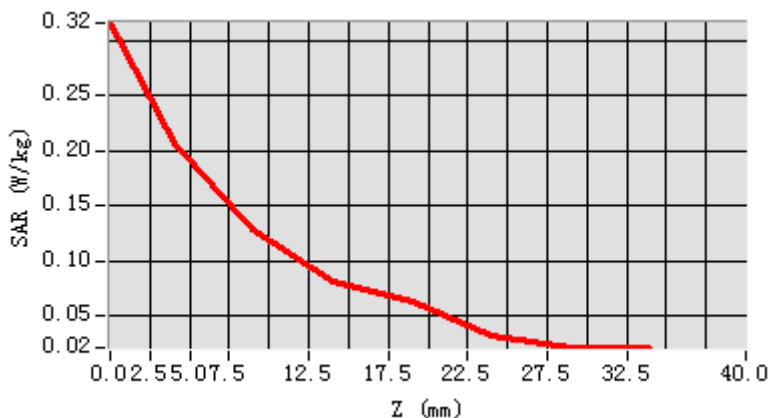


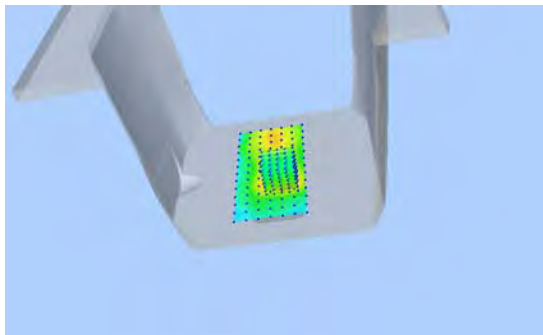
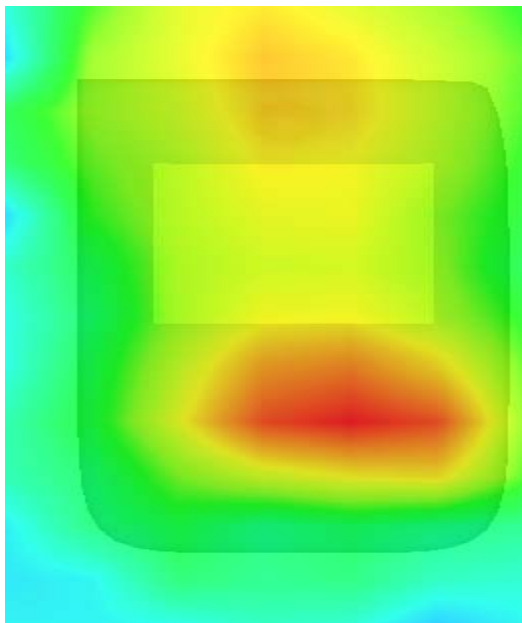
Maximum location: X=8.00, Y=-23.00
 SAR Peak: 0.35 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.116334
SAR 1g (W/Kg)	0.203513

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3156	0.2060	0.1295	0.0813	0.0627	0.0332	0.0217



3D screen shot	Hot spot position
	

**MEASUREMENT 84**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

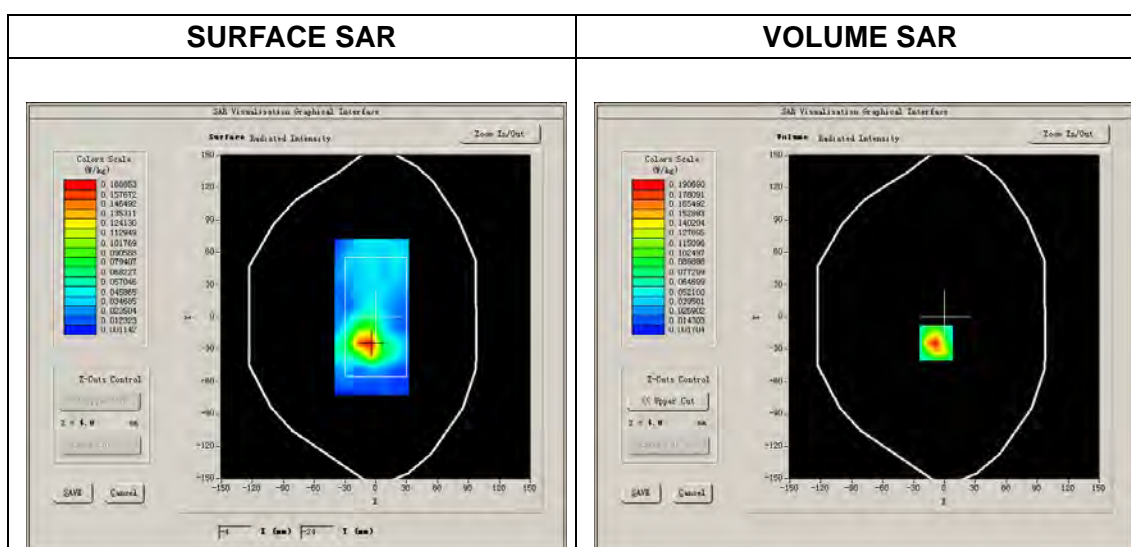
Measurement duration: 13 minutes 51 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 20</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 24300):

Frequency (MHz)	847.000000
Relative permittivity (real part)	41.500000
Conductivity (S/m)	0.912878
Power drift (%)	-3.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	5.21
Crest factor:	1:1



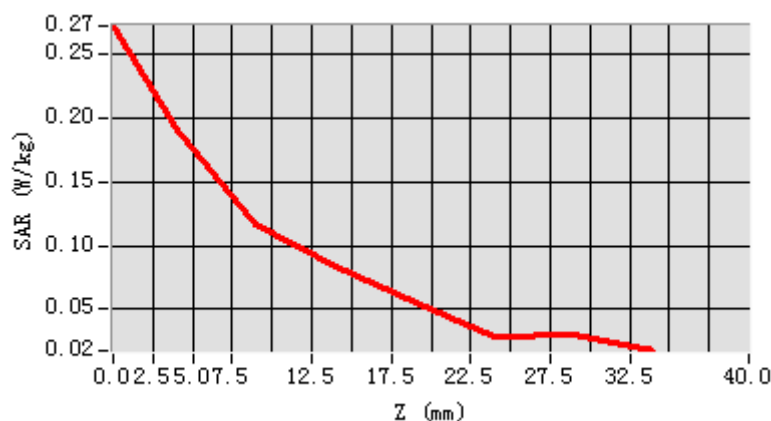


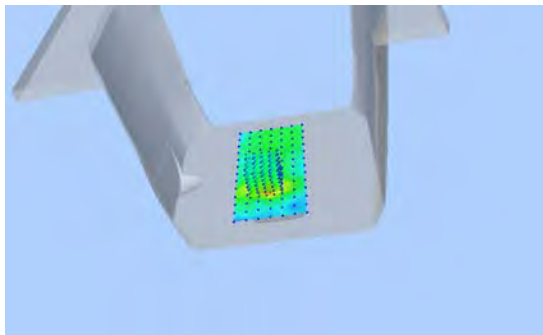
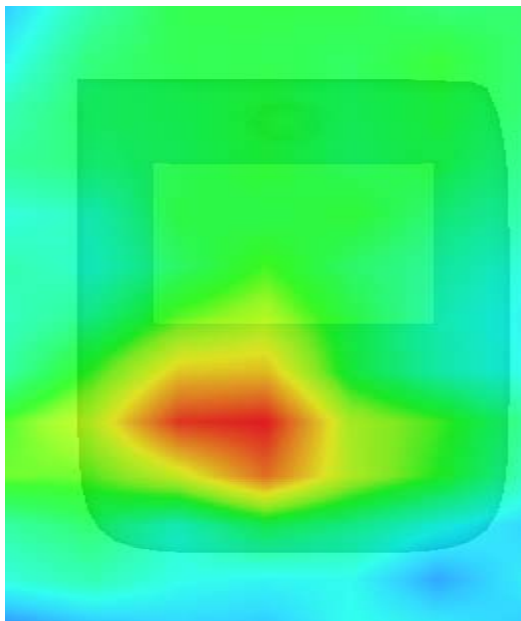
Maximum location: X=-8.00, Y=-24.00
SAR Peak: 0.30 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.094222
SAR 1g (W/Kg)	0.177318

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2727	0.1907	0.1174	0.0841	0.0555	0.0291	0.0297



3D screen shot	Hot spot position
	

**MEASUREMENT 85**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

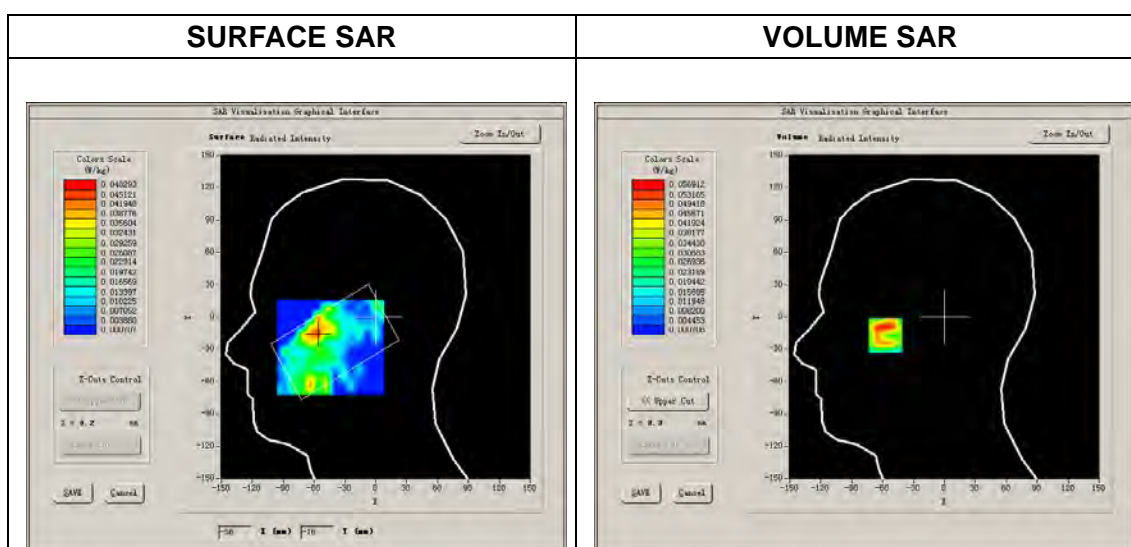
Measurement duration: 13 minutes 54 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 40</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 39150):

Frequency (MHz)	2350.000000
Relative permittivity (real part)	39.400002
Conductivity (S/m)	1.712889
Power drift (%)	1.330000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.82
Crest factor:	1:1



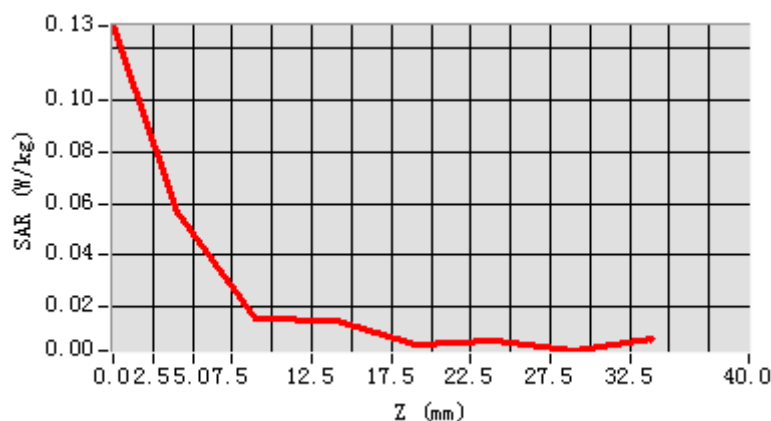


Maximum location: X=-57.00, Y=-16.00
 SAR Peak: 0.12 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.026312
SAR 1g (W/Kg)	0.055229

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1284	0.0569	0.0157	0.0148	0.0056	0.0074	0.0033



3D screen shot	Hot spot position

**MEASUREMENT 86**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

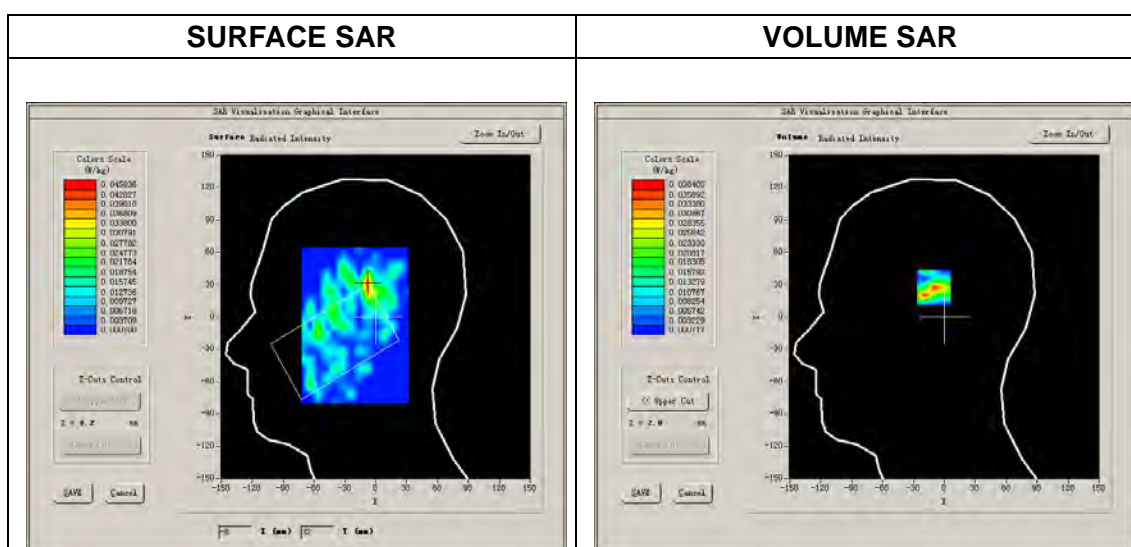
Measurement duration: 13 minutes 44 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>zinf5.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Right head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 40</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 39150):

Frequency (MHz)	2350.000000
Relative permittivity (real part)	39.400002
Conductivity (S/m)	1.712889
Power drift (%)	1.330000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.82
Crest factor:	1:1

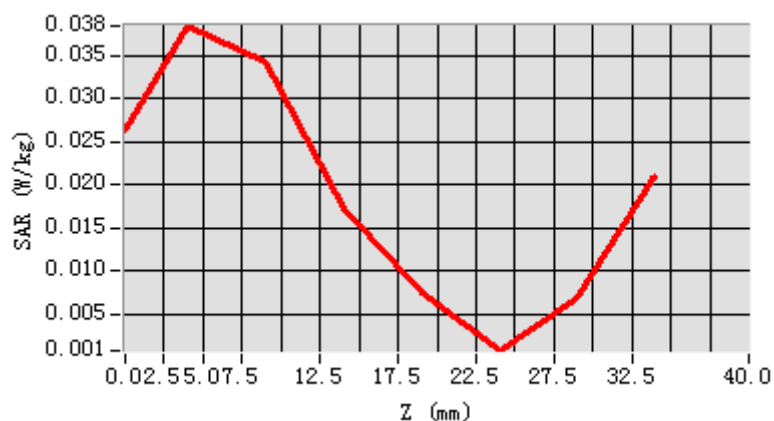




REPORT No. : SZ17080130S02
Maximum location: X=-8.00, Y=32.00
SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.015410
SAR 1g (W/Kg)	0.037142

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0264	0.0384	0.0342	0.0174	0.0075	0.0008	0.0068



3D screen shot	Hot spot position

**MEASUREMENT 87**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 48 seconds

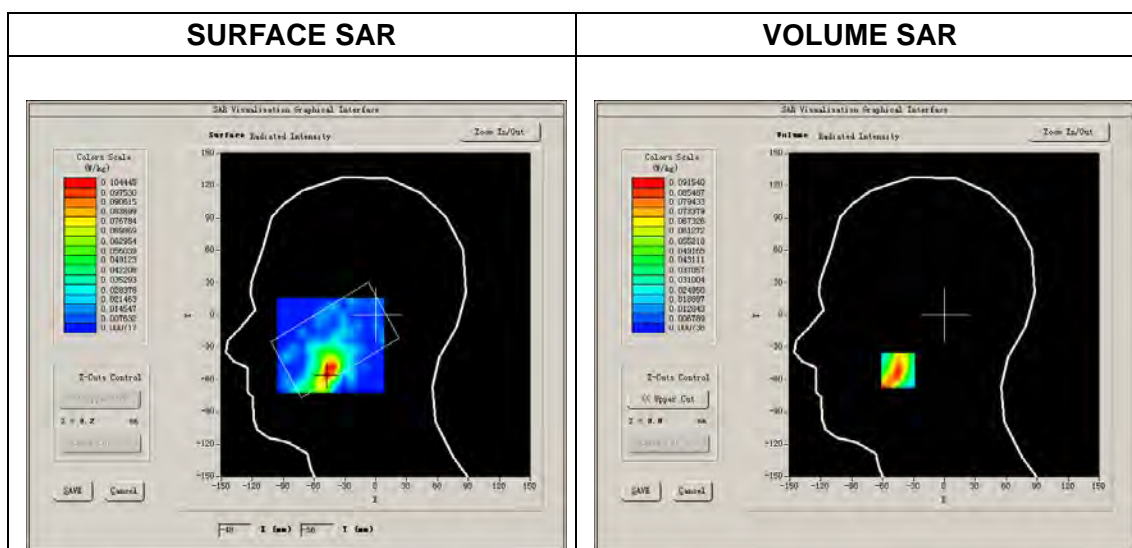
A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Cheek</u>
<u>Band</u>	<u>LTE band 40</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 39150):

Frequency (MHz)	2350.000000
Relative permittivity (real part)	39.400002
Conductivity (S/m)	1.712889
Power drift (%)	1.330000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.82
Crest factor:	1:1



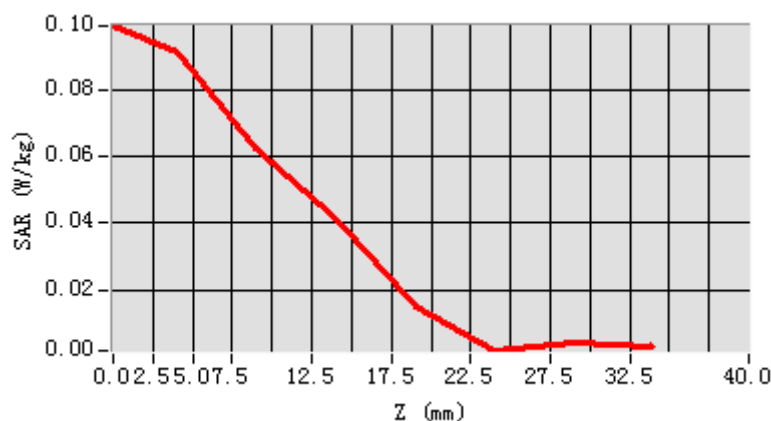


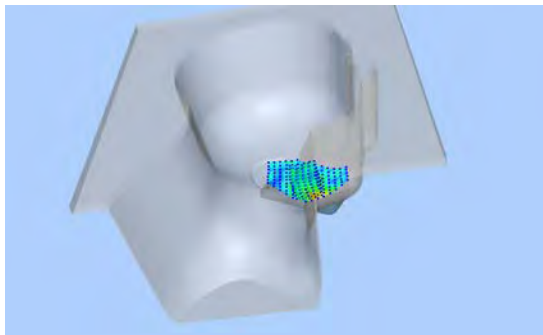
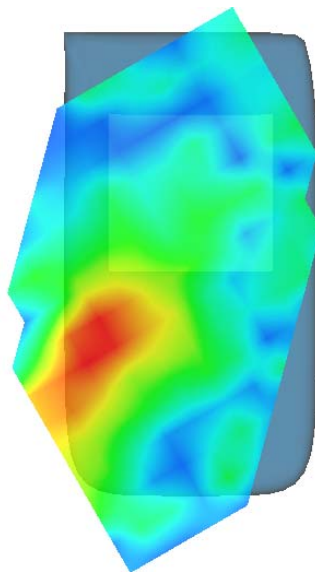
Maximum location: X=-45.00, Y=-51.00 REPORT No. : SZ17080130S02

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.042659
SAR 1g (W/Kg)	0.083492

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0993	0.0915	0.0628	0.0417	0.0148	0.0017	0.0044



3D screen shot	Hot spot position
	

**MEASUREMENT 88**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 26 seconds

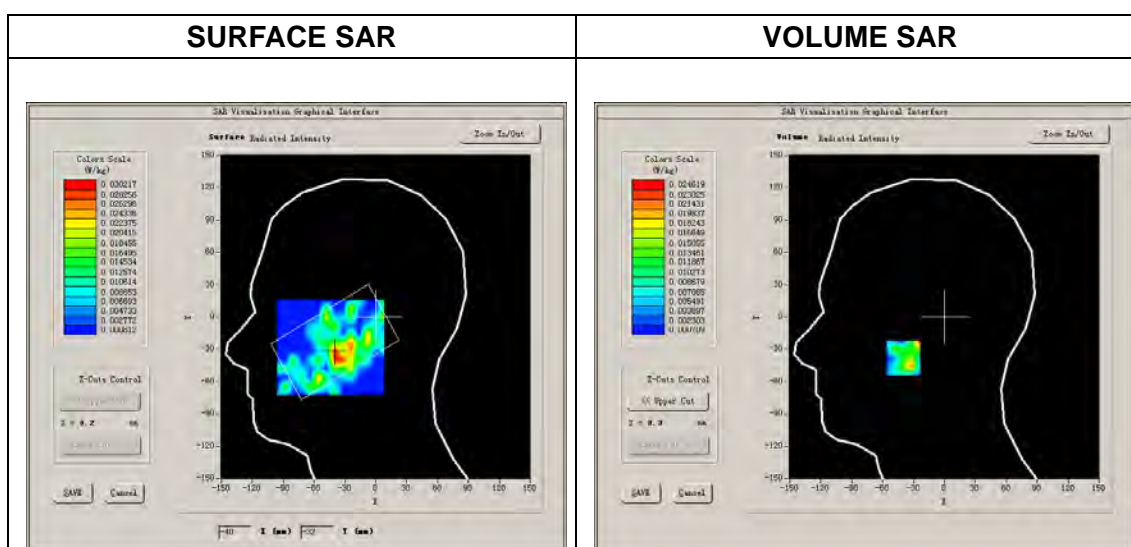
A. Experimental conditions.

<u>Phantom File</u>	<u>sam_direct_droit2_surf8mm.txt</u>
<u>Phantom</u>	<u>Left head</u>
<u>Device Position</u>	<u>Tilt</u>
<u>Band</u>	<u>LTE band 40</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement Results

Middle Band SAR (Channel 39150):

Frequency (MHz)	2350.000000
Relative permittivity (real part)	39.400002
Conductivity (S/m)	1.712889
Power drift (%)	1.330000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.82
Crest factor:	1:1

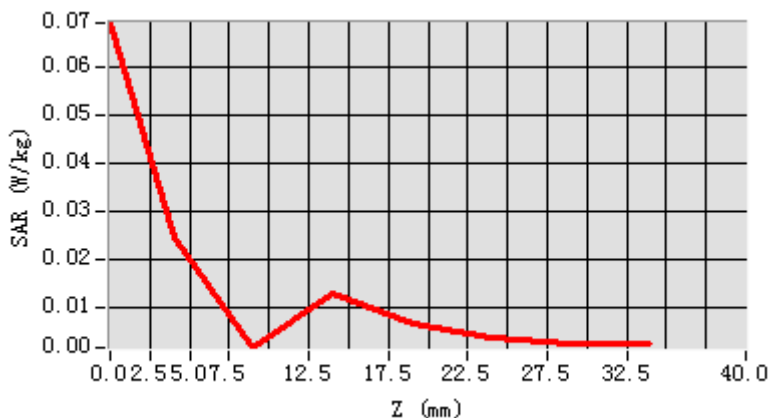




Maximum location: X=-38.00, Y=-38.00
 REPORT No. : SZ17080130S02
 SAR Peak: 0.08 W/kg

SAR 10g (W/Kg)	0.011711
SAR 1g (W/Kg)	0.027769

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0690	0.0246	0.0017	0.0128	0.0067	0.0037	0.0027



3D screen shot	Hot spot position

**MEASUREMENT 89**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

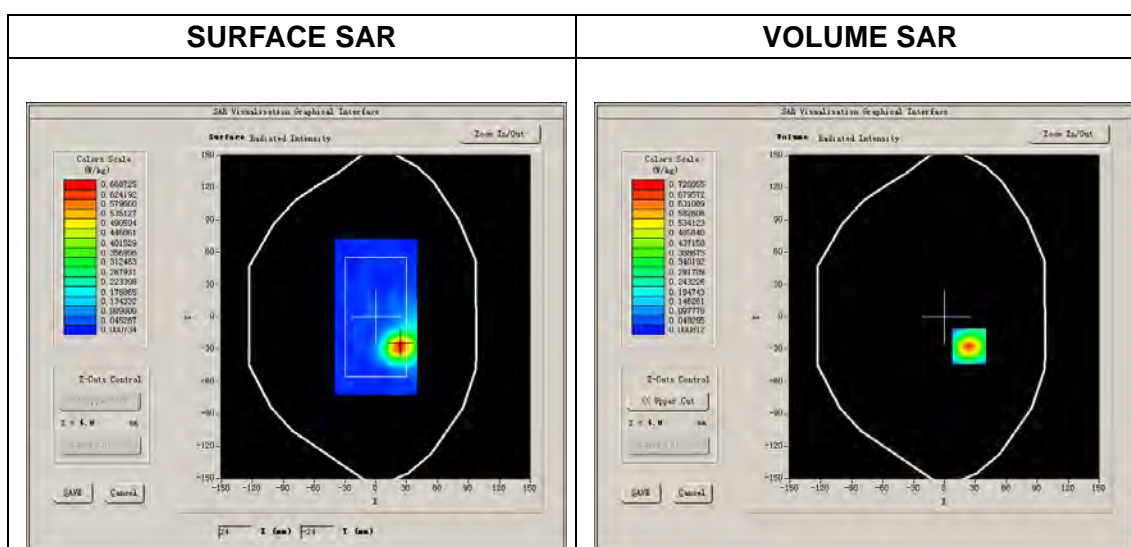
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 40</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 39150):

Frequency (MHz)	2350.000000
Relative permittivity (real part)	39.400002
Conductivity (S/m)	1.712889
Power drift (%)	1.330000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.82
Crest factor:	1:1



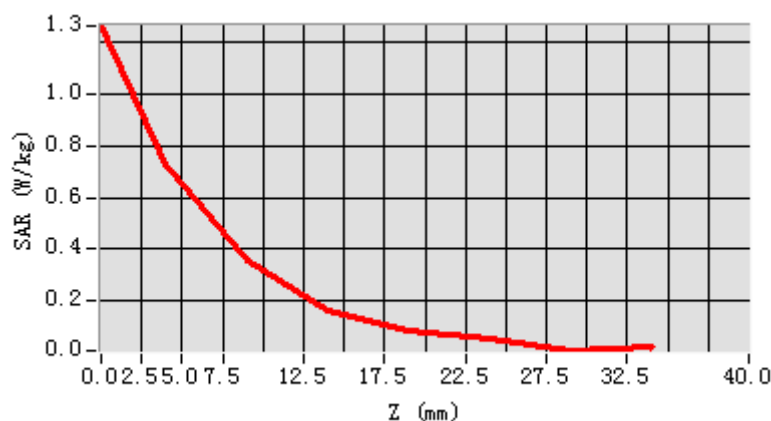


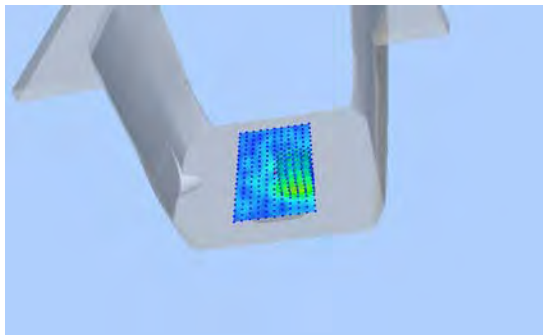
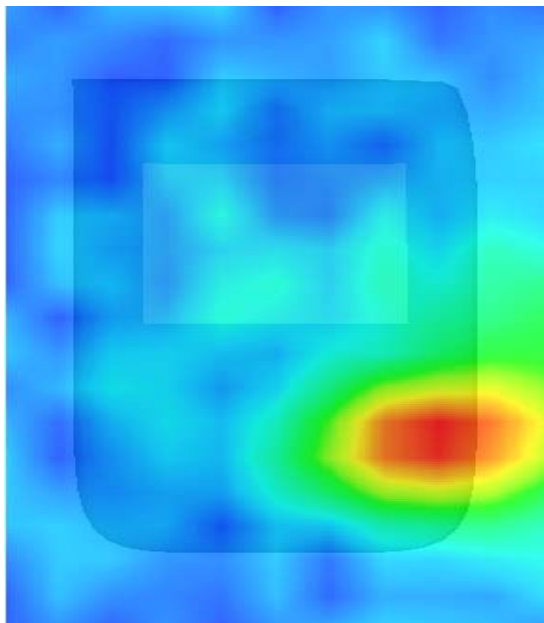
Maximum location: X=24.00, Y=-27.00
SAR Peak: 1.25 W/kg

REPORT No. : SZ17080130S02

SAR 10g (W/Kg)	0.292951
SAR 1g (W/Kg)	0.668837

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2648	0.7281	0.3569	0.1638	0.0845	0.0519	0.0069



3D screen shot	Hot spot position
	

**MEASUREMENT 90**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

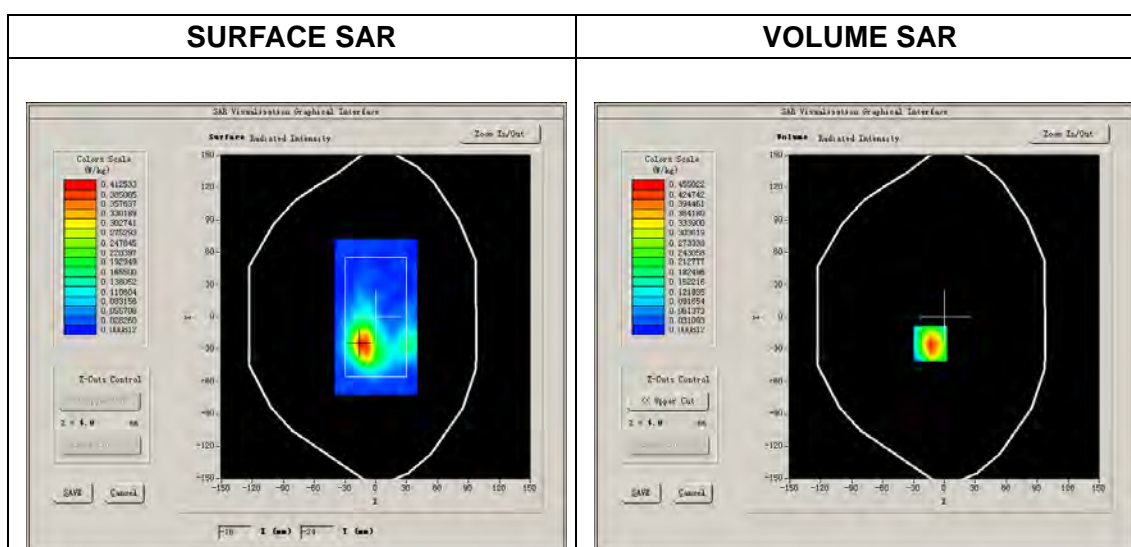
Measurement duration: 13 minutes 25 seconds

A. Experimental conditions.

<u>Phantom File</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 40</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE</u>

B. SAR Measurement ResultsMiddle Band SAR (Channel 39150):

Frequency (MHz)	2350.000000
Relative permittivity (real part)	39.400002
Conductivity (S/m)	1.712889
Power drift (%)	1.330000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	4.82
Crest factor:	1:1

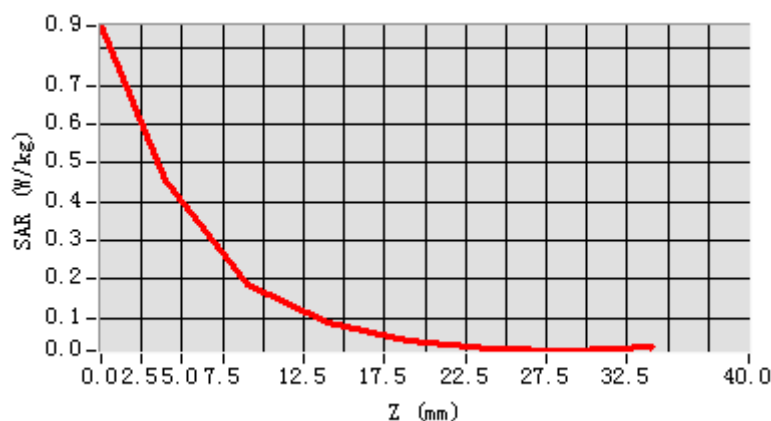




Maximum location: X=-14.00, Y=-25.00
 REPORT No. : SZ17080130S02
 SAR Peak: 0.85 W/kg

SAR 10g (W/Kg)	0.190791
SAR 1g (W/Kg)	0.438519

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8544	0.4550	0.1876	0.0872	0.0440	0.0208	0.0161



3D screen shot	Hot spot position

**ANNEX C SYSTEM CHECK DATA****System Performance Check Data (835MHz)**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.06

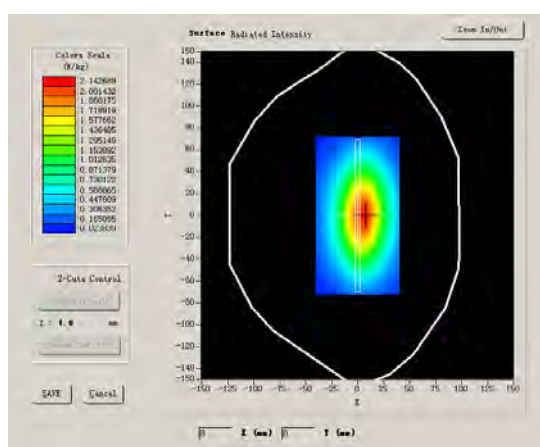
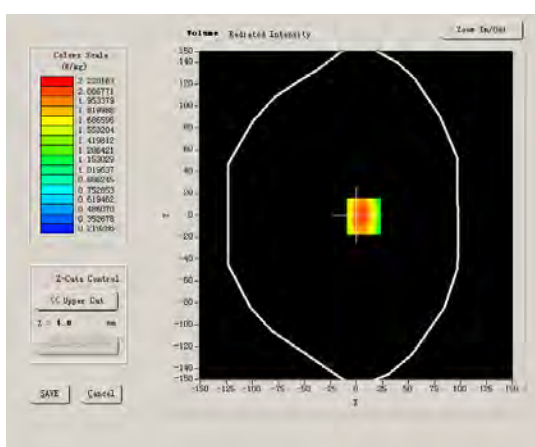
Measurement duration: 13 minutes 28 seconds

A. Experimental conditions.

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

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.182291
Conductivity (S/m)	0.891718
Power drift (%)	1.070000
Ambient Temperature:	22.6°C
Liquid Temperature:	21.2°C
ConvF:	6.13
Crest factor:	1:1

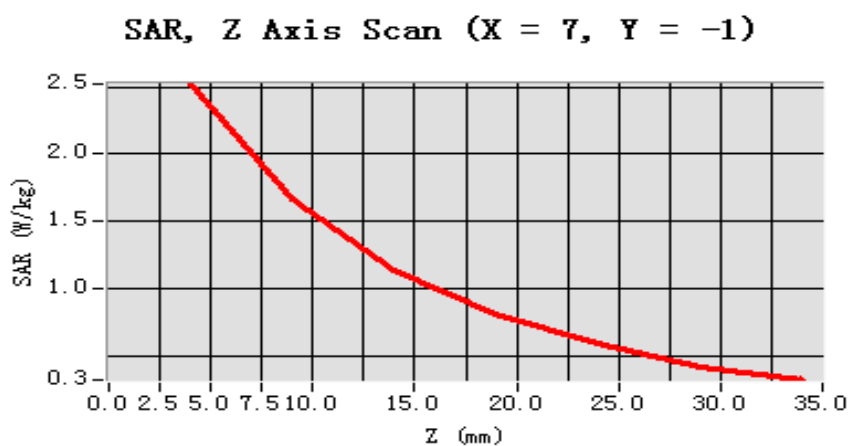
SURFACE SAR**VOLUME SAR**

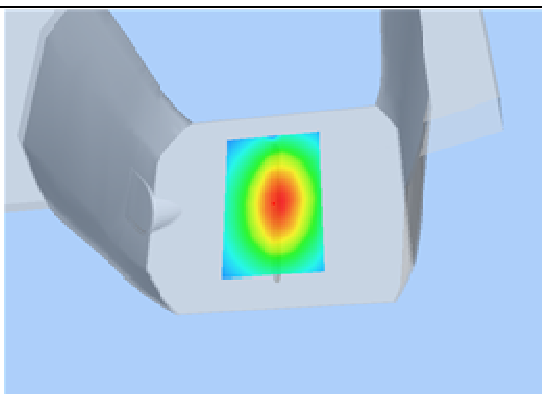
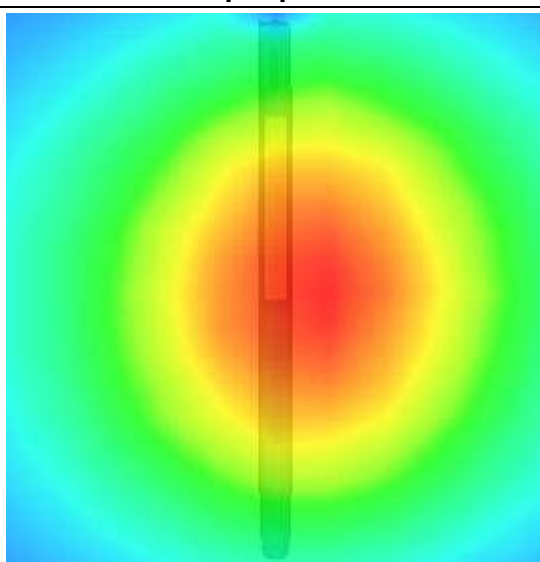
Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	0.522151
SAR 1g (W/Kg)	0.968476

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.5209	1.6629	1.1437	0.8075	0.5889	0.4143



3D scene shot	Hot spot position
	

**System Performance Check Data(1800MHz)**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.06

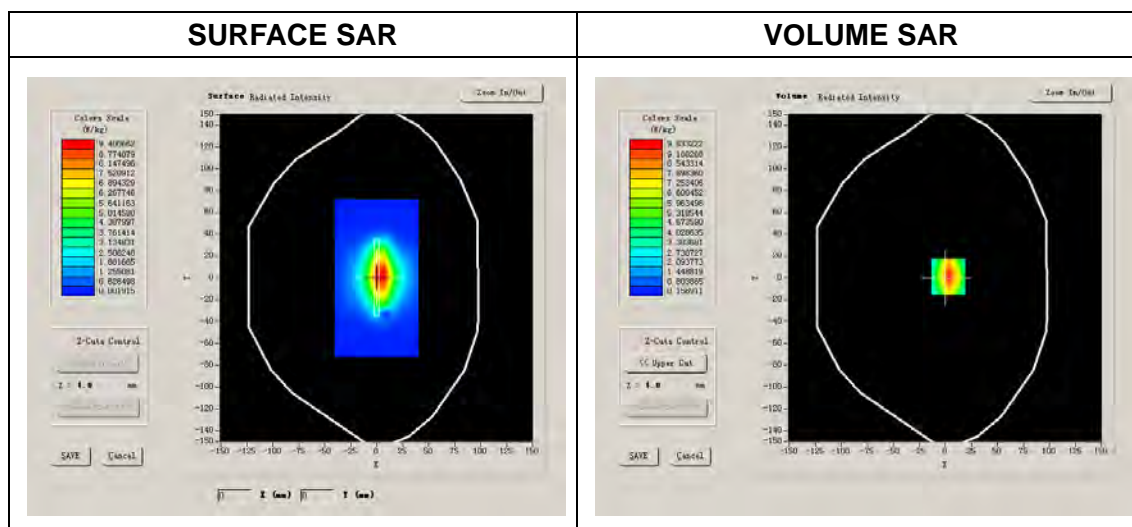
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

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

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	1800.000000
Relative permittivity (real part)	40.095167
Conductivity (S/m)	1.365073
Power drift (%)	0.310000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.6°C
ConvF:	5.21
Crest factor:	1:1



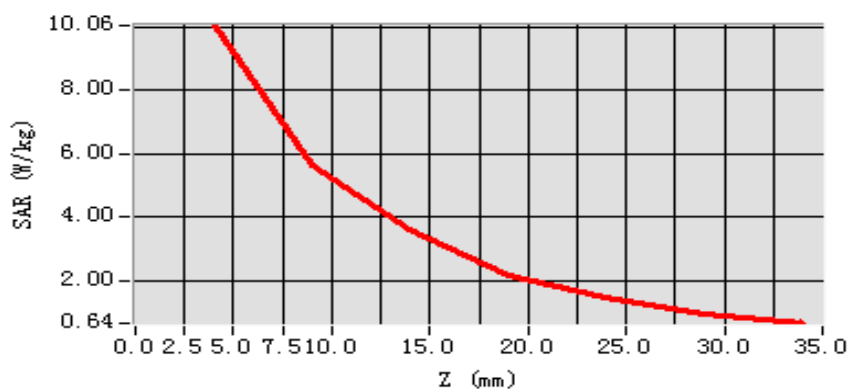
Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.048386
SAR 1g (W/Kg)	3.698154

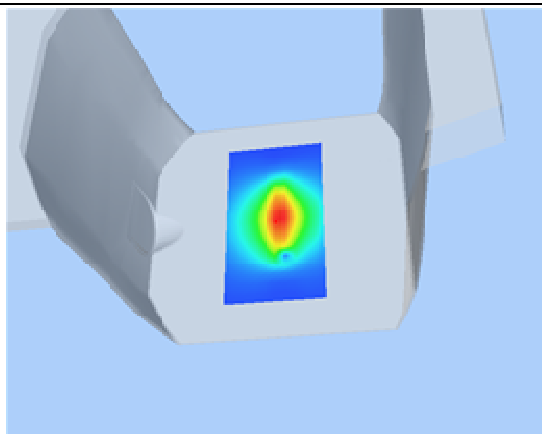
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.0621	5.6445	3.6226	2.1642	1.4521	0.9078

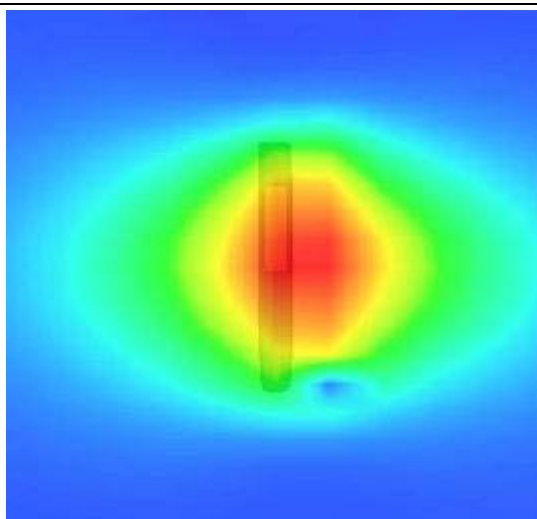
SAR, Z Axis Scan (X = 3, Y = 1)



3D scene shot



Hot spot position



**System Performance Check Data(2000MHz)**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

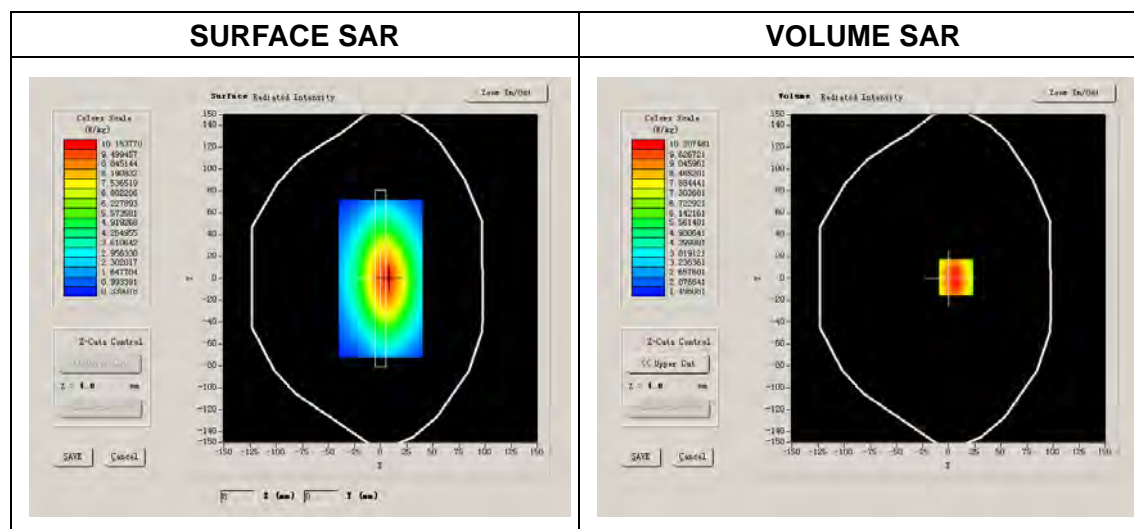
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	2000MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	2000.000000
Relative permittivity (real part)	39.984477
Conductivity (S/m)	1.414283
Power drift (%)	-0.830000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.4°C
ConvF:	5.61
Crest factor:	1:1



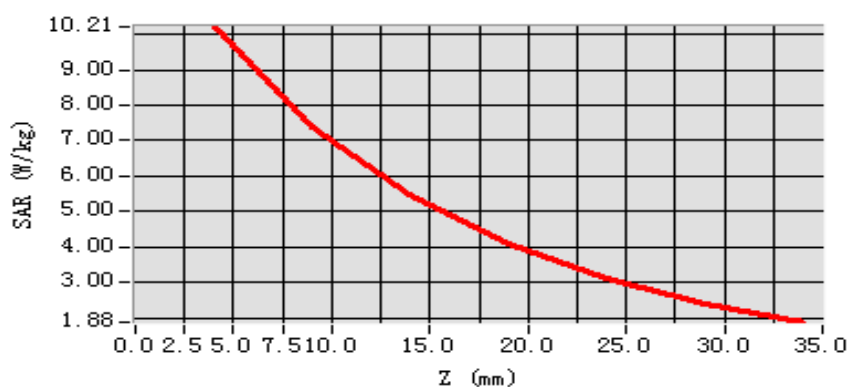
Maximum location: X=7.00, Y=1.00

SAR 10g (W/Kg)	1.992518
SAR 1g (W/Kg)	4.255954

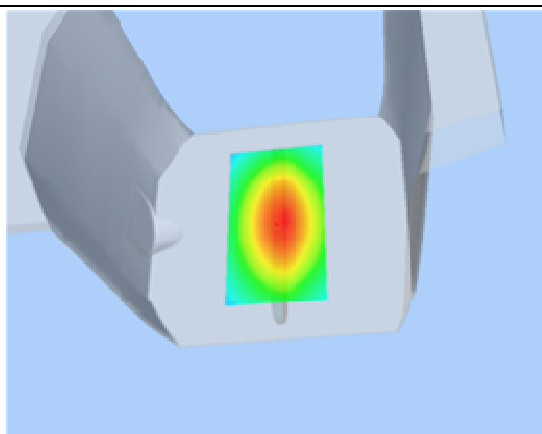
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2075	7.3996	5.4654	4.1101	3.1286	2.4128

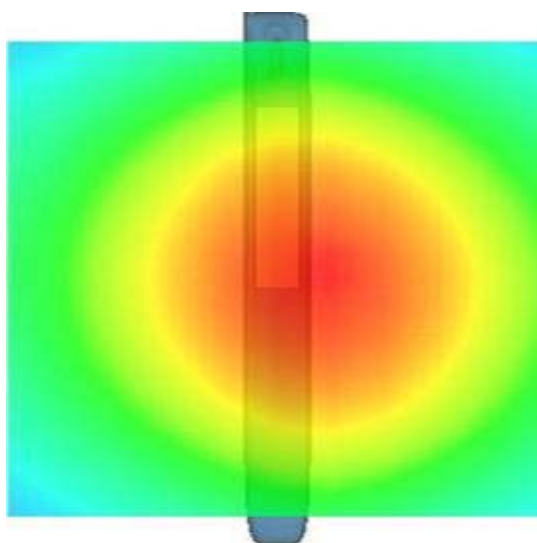
SAR, Z Axis Scan (X = 7, Y = 1)



3D scene shot



Hot spot position



**System Performance Check Data(2450MHz)**

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

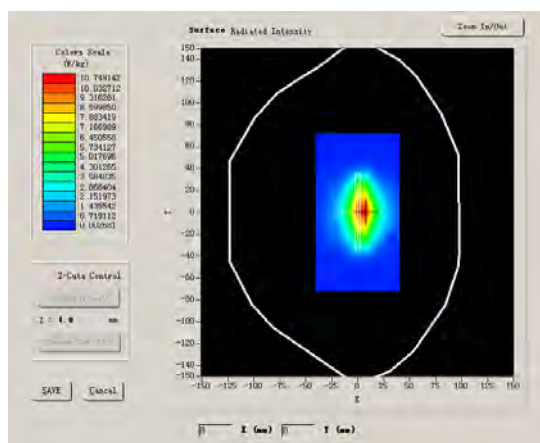
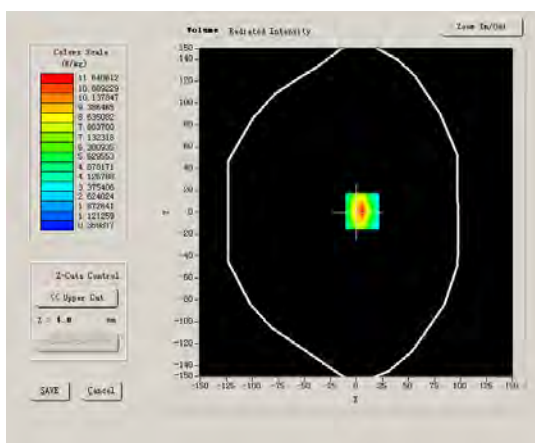
Measurement duration: 13 minutes 31 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	2450MHz
Channels	
Signal	CW

B. SAR Measurement Results**Band SAR**

Frequency (MHz)	2450.000000
Relative permittivity (real part)	39.284446
Conductivity (S/m)	1.836061
Power Drift (%)	1.080000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	4.74
Crest factor:	1:1

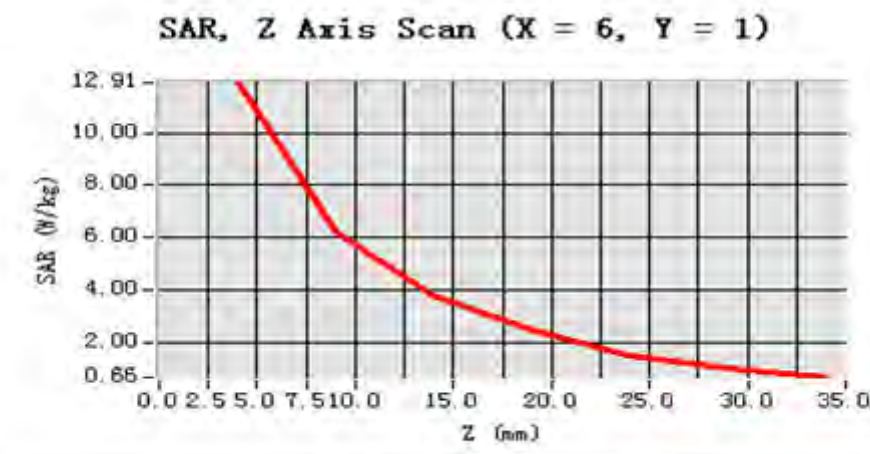
SURFACE SAR**VOLUME SAR**

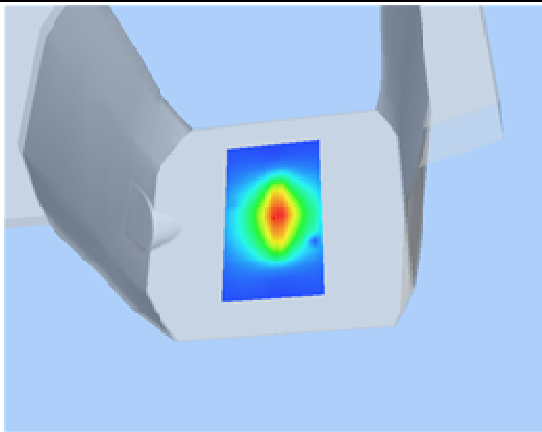
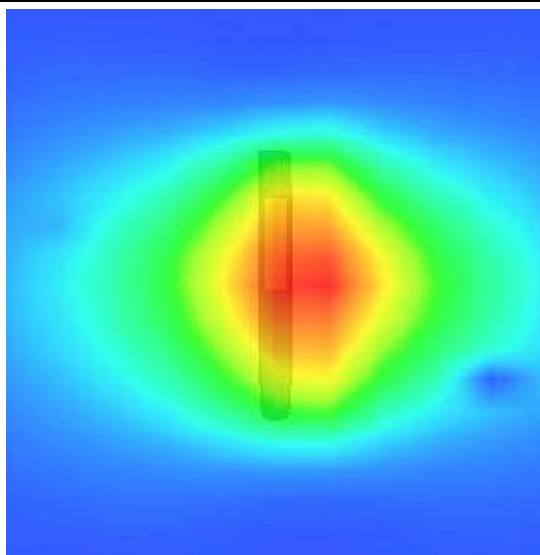
Maximum location: X=6.00, Y=1.00

SAR 10g (W/Kg)	2.377250
SAR 1g (W/Kg)	5.326074

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.9615	6.2096	3.8187	2.4504	1.5036	1.0219



3D scene shot	Hot spot position
	



System Performance Check Data(2600MHz)

Type: Phone measurement (Complete)

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

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

Date of measurement: 2017.09.07

Measurement duration: 13 minutes 31 seconds

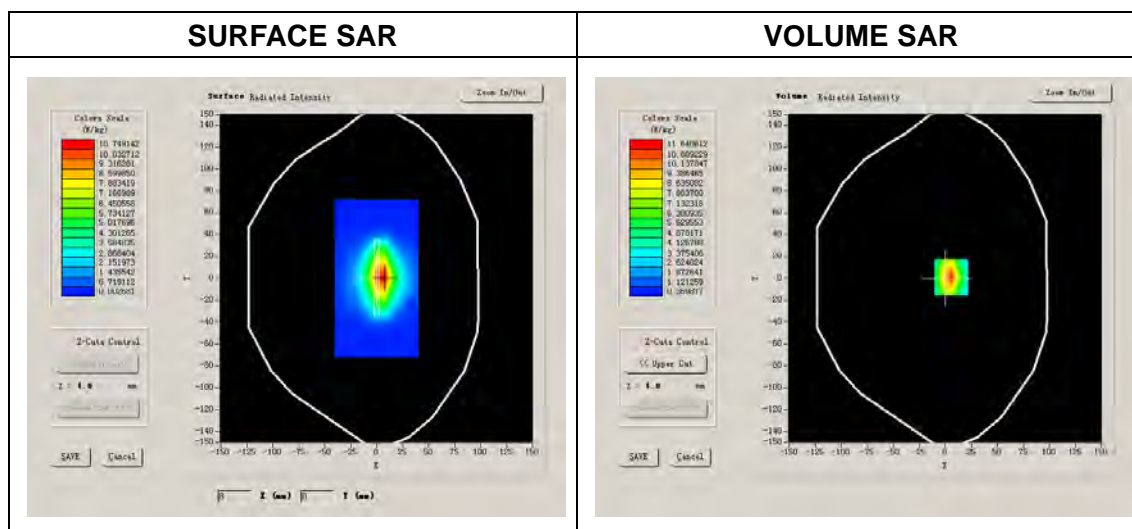
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Flat
Device Position	
Band	2600MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

Frequency (MHz)	2600.000000
Relative permittivity (real part)	39.024564
Conductivity (S/m)	1.975236
Power Drift (%)	1.080000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	4.74
Crest factor:	1:1

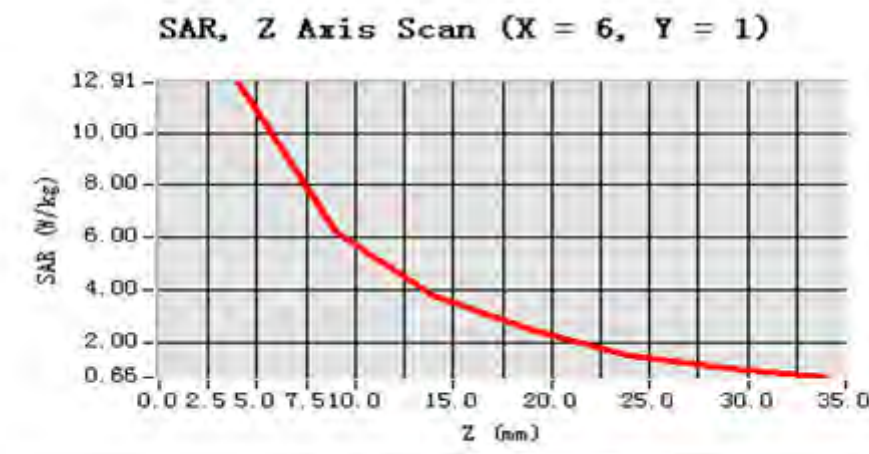


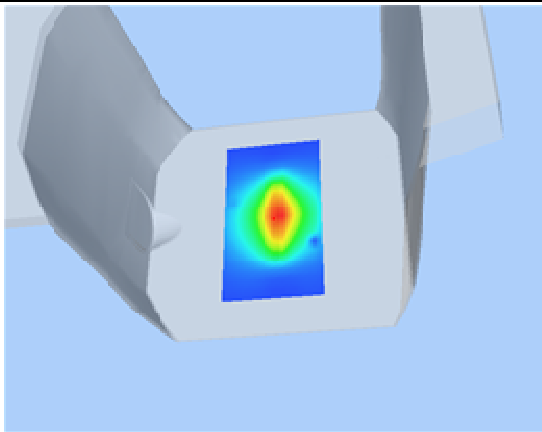
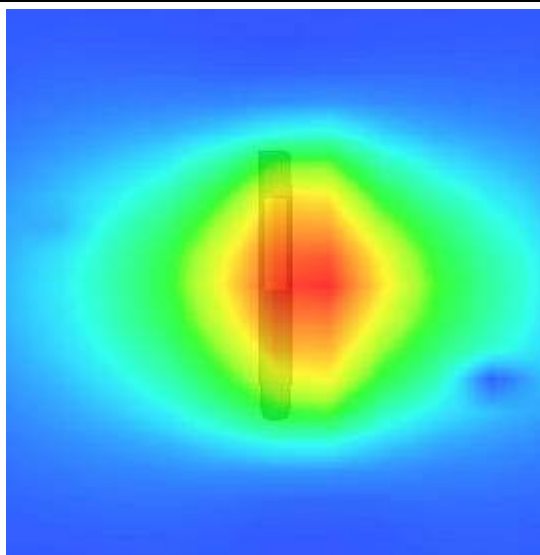
Maximum location: X=6.00, Y=1.00

SAR 10g (W/Kg)	2.498154
SAR 1g (W/Kg)	5.681472

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.9745	6.2193	3.8245	2.4624	1.5033	1.0220



3D scene shot	Hot spot position
	



ANNEX D GENERAL INFORMATION

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

**4. List of Test Equipments**

No.	Instrument	Type	Cal. Date	Cal. Due
1	PC	Dell (Pentium IV 2.4GHz, SN:X10-23533)	(n.a)	(n.a)
2	Network Emulator	Aglient (8960, SN:10752)	2017-5-24	1year
3	Network Emulator	Rohde&Schwarz (CMW500,SN:124534)	2017-5-25	1year
4	Network Analyzer	Agilent(E5071B ,SN:MY42404762)	2017-5-25	1year
5	Voltmeter	Keithley (2000, SN:1000572)	2017-7-8	1year
6	Synthesizer	Rohde&Schwarz (SML_03, SN:101868)	2017-8-24	1year
7	Signal Generator	Rohde&Schwarz (SMP_02)	2017-7-8	1year
8	Power Amplifier	PRANA (Ap32 SV125AZ)	2017-7-8	1year
9	Power Meter	Agilent (E4416A, SN:MY45102093)	2017-7-8	1year
10	Power Sensor	Agilent (N8482A, SN:MY41091706)	2017-7-8	1year
11	Power Meter	Rohde&Schwarz (NRVD, SN:101066)	2017-7-8	1year
12	Power Sensor	MA2411B	2017-7-8	1year
13	Directional coupler	Giga-tronics(SN:1829112)	2017-7-24	1year
14	Probe	Satimo (SN:SN 37/08 EP80)	2017-7-5	1year
15	Dielectric Probe Kit	Agilent (85033E)	2017-7-5	1year
16	Phantom	Satimo (SN:SN_36_08_SAM62)	N/A	N/A
17	Liquid	Satimo(Last Calibration: 2017-08-01 to 2017-08-03)	N/A	N/A
18	Dipole 835MHz	Satimo (SN 20/08 DIP99)	2017-7-5	1year
19	Dipole 1800MHz	Satimo (SN 36/08 DIPF101)	2017-7-5	1year
20	Dipole 2000MHz	Satimo (SN 20/08 DIPI102)	2017-7-5	1year
21	Dipole 2450MHz	Satimo (SN 30/13 DIP2G450-263)	2017-7-5	1year
22	Thermo meter	KTJ(mode-01)	2017-5-10	1year

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