

# SAR TEST REPORT

### HCT CO., LTD

EUT Type:	GSM/WCDMA Phone with Bluetooth GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)					
FCC ID:	JYCP6010					
Model:	P6010					
Date of Issue:	Dec. 8, 2010					
Test report No.:	HCTA1012FS01					
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Testing has been carried out in accordance with:	RSS-102 Issue 4; Health Canada Safety C 47CFR §2.1093 FCC OET Bulletin 65(Edition 97-01), Suppl ANSI/ IEEE C95.1 – 1992 IEEE 1528-2003					
Test result:	The tested device complies with the red subject to the test. The test results and st The test report shall not be reproduced exc laboratory.	atements relate only to the items tested.				
Signature	Report prepared by : Young-Soo Jang Test Engineer of SAR Part	Approved by : Jae-Sang So Manager of SAR Part				



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## 1. INTRODUCTION

The FCC has adopted the guidelines for evaluating the environmental effects of radio frequency radiation in ET Docket 93-62 on Aug. 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices.

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-2005 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. The measurement procedure described in IEEE/ANSI C95.3-1992 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave is used for guidance in measuring SAR due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86 NCRP, 1986, Bethesda, MD 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

#### **SAR Definition**

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (r). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body.

$$S A R = \frac{d}{d t} \left( \frac{d U}{d m} \right) = \frac{d}{d t} \left( \frac{d U}{\rho d v} \right)$$

Figure 2. SAR Mathematical Equation

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

 $\sigma E^2 / \rho$ 

SAR = where:

σ	=	conductivity of the tissue-simulant material (S/m)
ρ	=	mass density of the tissue-simulant material (kg/m <sup>3</sup> )
E	=	Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.



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## 2. DESCRIPTION OF DEVICE

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

EUT Type	GSM/WCDMA Phone with Bluetooth GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)						
FCC ID:	JYCP6010						
Model:	P6010						
Trade Name	Pantech Serial Number(s) #1						
Application Type	Certification						
Mode(s) of Operation	GSM850/GSM1900/WCDMA8	50/WCDMA1900					
Tx Frequency	824.20 - 848.80 MHz (GSM850) 1 850.20 – 1 909.80 MHz (GSM1900) 826.4~846.6 MHz (WCDMA850) 1 852.4 – 1 907.6 MHz (WCDMA1900)						
Rx Frequency	869.20 - 893.80 MHz (GSM850) 1 930.20 – 1 989.80 MHz (GSM1900) 871.4 - 891.6 MHz (WCDMA850) 1 932.4 – 1 987.6 MHz (WCDMA1900)						
FCC Classification	Licensed Portable Transmitter Hel	d to Ear (PCE)					
Production Unit or Identical Prototype	Prototype						
Max SAR	0.448 W/kg GSM850 Head SAR / 0.590 W/kg GSM850 Body SAR 0.365 W/kg GSM1900 Head SAR / 0.449 W/kg GSM1900 Body SAR 0.298 W/kg WCDMA850 Head SAR / 0.308 W/kg WCDMA850 Body SAR 0.486 W/kg WCDMA1900 Head SAR / 0.287 W/kg WCDMA1900 Body SAR						
Date(s) of Tests	Dec. 5, 2010 ~ Dec. 6, 2010						
Antenna Type	Intenna						

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## 3. DESCRIPTION OF TEST EQUIPMENT

### **3.1 SAR MEASUREMENT SETUP**

These measurements are performed using the DASY4 automated dosimetric assessment system. It is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland. It consists of high precision robotics system (Staubli), robot controller, Pentium III computer, near-field probe, probe alignment sensor, and the generic twin phantom containing the brain equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF) (see Figure.3.1).

A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The PC consists of the HP Pentium IV 3.0 GHz computer with Windows XP system and SAR Measurement Software DASY4, A/D interface card, monitor, mouse, and keyboard. The Staubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

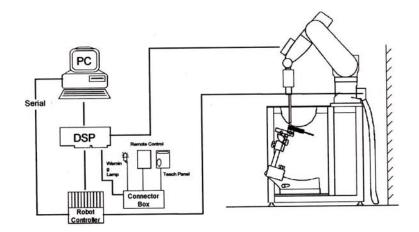


Figure 3.1 HCT SAR Lab. Test Measurement Set-up

The DAE4 consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer. The system is described in detail in.



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## 3.2 DASY4 E-FIELD PROBE SYSTEM

#### 3.2.1 ES3DV3 Probe Specification

Construction	Symmetrical design with triangular core Interleaved so	ensors
	Built-in shielding against static charges	
<b>A</b>	PEEK enclosure material (resistant to organic solvent	s, e.g., DGBE)
Calibration	Basic Broad Band Calibration in air	
	Conversion Factors (CF) for HSL 900 and HSL 1810	
	Additional CF for other liquids and frequencies upon r	equest
Frequency	10 MHz to 4 GHz; Linearity: ± 0.2 dB (30 MHz to 4 GH	Hz)
Directivity	± 0.2 dB in HSL (rotation around probe axis)	
	$\pm$ 0.3 dB in tissue material (rotation normal to probe a	xis)
Dynamic Range	5 $\mu$ W/g to > 100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 330 mm (Tip: 20 mm)	
	Tip diameter: 3.9 mm (Body: 12 mm)	
	Distance from probe tip to dipole centers: 2.0 mm	
Application	General dosimetry up to 4 GHz	-
	Dosimetry in strong gradient fields	
	Compliance tests of mobile phones	Figure 3.1 Photo



Figure 3.1 Photograph of the probe and the Phantom

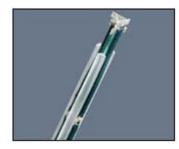


Figure 3.2 ES3DV3 E-field Probe

The SAR measurements were conducted with the dosimetric probe ET3DV6, designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multifiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches a maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface eflectivity and largely independent of the surface to probe angle. The DASY4 software reads the reflection during a software approach and looks for the maximum using a 2<sup>nd</sup> order fitting. The approach is stopped at reaching the maximum.

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## 3.3 PROBE CALIBRATION PROCESS

#### 3.3.1 E-Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with an accuracy better than  $\pm$  10 %. The spherical isotropy was evaluated with the proper procedure and found to be better than  $\pm$  0.25 dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe is tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies bellow 1 GHz, and in a waveguide 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 then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

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

where:

 $\Delta t$  = exposure time (30 seconds),

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

 $\Delta T$  = 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. Now it's possible to quantify the electric field in the simulated tissue by equating the thermally derived SAR to the E- field;

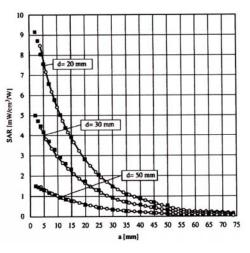


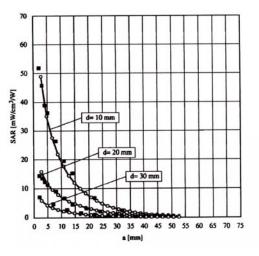
Figure 3.4 E-Field and Temperature measurements at 900 MHz

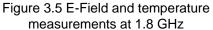
$$SAR = \frac{|E|^2 \cdot \sigma}{\rho}$$

where:

 $\sigma$  = simulated tissue conductivity,

= Tissue density (1.25 g/cm<sup>3</sup> for brain tissue)







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= compensated signal of channel i (i = x,y,z)

#### **3.3.2 Data Extrapolation**

The DASY4 software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given like below;

$$V_{i} = U_{i} + U_{i}^{2} \cdot \frac{cf}{dcp_{i}}$$
 with  $V_{i}$  = compensated signal of channel i (i=x,y,z)  
 $U_{i}$  = input signal of channel i (i=x,y,z)  
 $Cf$  = crest factor of exciting field (DASY parameter)  
 $dcp_{i}$  = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

V<sub>i</sub>

with

E-field probes:

$$E_{i} = \sqrt{\frac{V_{i}}{Norm_{i} \cdot ConvF}}$$
Norm<sub>i</sub> = sensor sensitivity of channel i (i = x,y,z)  

$$\mu V/(V/m)^{2} \text{ for E-field probes}$$
ConvF = sensitivity of enhancement in solution  
E<sub>i</sub> = electric field strength of channel i in V/m

The RSS value of the field components gives the total field strength (Hermetian magnitude):

 $E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$ 

The primary field data are used to calculate the derived field units.

$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$	with	SAR E <sub>tot</sub>	<ul> <li>= local specific absorption rate in W/g</li> <li>= total field strength in V/m</li> </ul>
<i>p</i> 1000		σ	= conductivity in [mho/m] or [Siemens/m]
		ρ	= equivalent tissue density in g/cm <sup>3</sup>

The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{proc} = \frac{E_{tot}^{2}}{3770}$$
 with 
$$P_{pwe}_{E_{tot}} = equivalent power density of a plane wave in W/cm2 = total electric field strength in V/m$$



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### 3.4 SAM Phantom

The SAM Phantom is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is based on data from an anatomical study designed to determine the maximum exposure in at least 90 % of all users. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.



Figure 3.6 SAM Phantom

Shell Thickness Filling Volume Dimensions 2.0 mm about 30 L 810 mm x 1 000 mm x 500 mm (H x L x W)

### 3.5 Device Holder for Transmitters

In combination with the SAM Phantom V 4.0, the Mounting Device (POM) enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatable positioned according to the FCC and CENELEC specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).

Note: A simulating human hand is not used due to the complex anatomical and geometrical structure of the hand that may produced infinite number of configurations. To produce the Worst-case condition (the hand absorbs antenna output power),

the hand is omitted during the tests.



Figure 3.7 Device Holder



### 3.6 Brain & Muscle Simulating Mixture Characterization

The brain and muscle mixtures consist of a viscous gel using hydrox-ethyl cellulose (HEC) gelling agent and saline solution (see Table 3.1). Preservation with a bacteriacide is added and visual inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The mixture characterizations used for the brain and muscle tissue simulating liquids are according to the data by C. Gabriel and G. Hartsgrove.

Ingredients		Frequency (MHz)									
(% by weight)	45	50	83	35	91	15	1 9	00	2 4	150	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2	
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04	
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0	
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0	
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0	
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7	

Salt:	99 % Pure Sodium Chloride	Sugar:	98 % Pure Sucrose
Water:	De-ionized, 16M resistivity	HEC:	Hydroxyethyl Cellulose
DGBE:	99 % Di(ethylene glycol) butyl ether,[2	2-(2-butoxyeth	noxy) ethanol]
Triton X-100(ultra pure):	Polyethylene glycol mono[4-(1,1,3,3-t	etramethylbut	tyl)phenyl] ether

Table 3.1 Composition of the Tissue Equivalent Matter



### **3.7 SAR TEST EQUIPMENT**

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
Staubli	Robot RX90L	F01/5K09A1/A/01	N/A	N/A	N/A
Staubli	Robot ControllerCS7MB	F99/5A82A1/C/01	N/A	N/A	N/A
HP	Pavilion t000_puffer	KRJ51201TV	N/A	N/A	N/A
SPEAG	Light Alignment Sensor	265	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	D221340.01	N/A	N/A	N/A
SPEAG	DAE4	869	Sep 18, 2010	Annual	Sep 18, 2011
SPEAG	E-Field Probe ES3DV3	3161	Mar 22, 2010	Annual	Mar 22, 2011
SPEAG	Validation Dipole D835V2	441	May 21, 2010	Annual	May 21, 2011
SPEAG	Validation Dipole D1900V2	5d032	July 16, 2010	Annual	July 16, 2011
Agilent	Power Meter(F) E4419B	MY41291386	Nov. 05, 2010	Annual	Nov. 05, 2011
Agilent	Power Sensor(G) 8481	MY41090870	Nov. 05, 2010	Annual	Nov. 05, 2011
HP	Dielectric Probe Kit 85070C	00721521	N/A	N/A	N/A
HP	Dual Directional Coupler	16072	Nov. 05, 2010	Annual	Nov. 05, 2011
R&S	Base Station CMU200	110740	July 26, 2010	Annual	July 26, 2011
Agilent	Base Station E5515C	GB44400269	Feb. 10, 2010	Annual	Feb. 10, 2011
HP	Signal Generator E4438C	MY42082646	Dec. 24, 2009	Annual	Dec. 24, 2010
HP	Network Analyzer 8753ES	MY4000025	Sep. 02, 2010	Annual	Sep. 02, 2011

#### NOTE:

The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Validation measurement is performed by HCT Lab. before each test. The brain simulating material is calibrated by HCT using the dielectric probe system and network analyzer to determine the conductivity and permittivity (dielectric constant) of the brain-equivalent material.

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## 4. SAR MEASUREMENT PROCEDURE

The evaluation was performed with the following procedure:

- 1. The SAR value at a fixed location above the ear point was measured and was used as a reference value for assessing the power drop.
- 2. The SAR distribution at the exposed side of the head was measured at a distance of 3.9 mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 20 mm x 20 mm. Based on this data, the area of the maximum absorption was determined by spline interpolation.
- 3. Around this point, a volume of 32 mm x 32 mm x 30 mm was assessed by measuring 5 x 5 x 7 points. On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:
  - a. The data at the surface were extrapolated, since the center of the dipoles is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
  - b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions. The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
  - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 4. The SAR value, at the same location as procedure #1, was re-measured. If the value changed by more than 5 %, the evaluation is repeated.

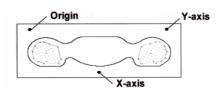


Figure 4.1 SAR Measurement Point in Area Scan

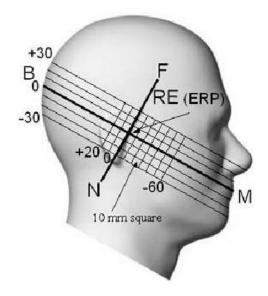


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# 5. DESCRIPTION OF TEST POSITION

## 5.1 HEAD POSITION

The device was placed in a normal operating position with the Point A on the device, as illustrated in following drawing, aligned with the location of the RE(ERP) on the phantom. With the ear-piece pressed against the head, the vertical center line of the body of the handset was aligned with an imaginary plane consisting of the RE, LE and M. While maintaining these alignments, the body of the handset was gradually moved towards the cheek until any point on the mouth-piece or keypad contacted the cheek. This is a cheek/touch position. For ear/tilt position, while maintain the device aligned with the BM and FN lines, the device was pivot against ERP back for 15° or until the device antenna touch the phantom. Please refer to IEEE 1528-2003 illustration below.





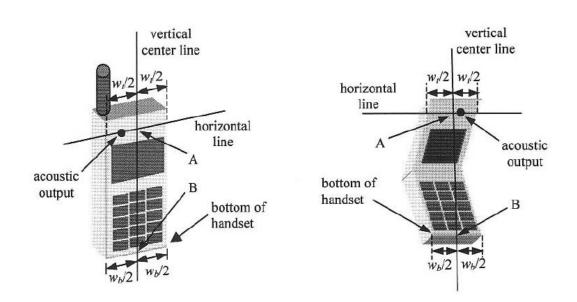


Figure 5.2 Handset vertical and horizontal reference lines



### 5.2 Body Holster/Belt Clip Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. A device with a headset output is tested with a headset connected to the device. Body dielectric parameters are used.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with each accessory. If multiple accessory share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some Devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used.

Since this EUT does not supply any body worn accessory to the end user a distance of 2.0 cm from the EUT back surface to the liquid interface is configured for the generic test.

#### "See the Test SET-UP Photo"

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessory(ies), Including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

In all cases SAR measurements are performed to investigate the worst-case positioning. Worstcase positioning is then documented and used to perform Body SAR testing.



## **6. MEASUREMENT UNCERTAINTY**

Error	Tol	Prob.			Standard	
Description		dist.	Div.	Ci	Uncertainty	Veff
	(± %)				(± %)	
1. Measurement System						
Probe Calibration	5.50	N	1	1	5.50	
Axial Isotropy	4.70	R	1.73	0.7	1.90	œ
Hemispherical Isotropy	9.60	R	1.73	0.7	3.88	œ
Boundary Effects	1.00	R	1.73	1	0.58	œ
Linearity	4.70	R	1.73	1	2.71	œ
System Detection Limits	1.00	R	1.73	1	0.58	œ
Readout Electronics	0.30	N	1.00	1	0.30	œ
Response Time	0.8	R	1.73	1	0.46	œ
Integration Time	2.6	R	1.73	1	1.50	œ
RF Ambient Noise	3.00	R	1.73	1	1.73	œ
RF Ambient Reflection	3.00	R	1.73	1	1.73	œ
Probe Positioner	0.40	R	1.73	1	0.23	œ
Probe Positioning	2.90	R	1.73	1	1.67	œ
Max SAR Eval	1.00	R	1.73	1	0.58	œ
2.Test Sample Related	•		•			•
Device Positioning	1.80	N	1.00	1	1.80	9
Device Holder	3.60	N	1.00	1	3.60	5
Power Drift	5.00	R	1.73	1	2.89	œ
3.Phantom and Setup	•		•		•	•
Phantom Uncertainty	4.00	R	1.73	1	2.31	
Liquid Conductivity(target)	5.00	R	1.73	0.64	1.85	œ
Liquid Conductivity(meas.)	2.07	N	1	0.64	1.32	9
Liquid Permitivity(target)	5.00	R	1.73	0.6	1.73	0
Liquid Permitivity(meas.)	5.02	N	1	0.6	3.01	9
Combind Standard Uncertai	nty				10.76	
Coverage Factor for 95 %					k=2	
Expanded STD Uncertainty					21.53	

Table 6.1 Uncertainty (800 MHz- 2450 MHz)



## 7. ANSI/ IEEE C95.1 - 1992 RF EXPOSURE LIMITS

HUMAN EXPOSURE	UNCONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT Occupational (W/kg) or (mW/g)
SPATIAL PEAK SAR * (Brain)	1.60	8.00
SPATIAL AVERAGE SAR ** (Whole Body)	0.08	0.40
SPATIAL PEAK SAR *** (Hands / Feet / Ankle / Wrist)	4.00	20.00

#### Table 7.1 Safety Limits for Partial Body Exposure

#### NOTES:

- \* The Spatial Peak value of the SAR averaged over any 1 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
- \*\* The Spatial Average value of the SAR averaged over the whole-body.
- \*\*\* The Spatial Peak value of the SAR averaged over any 10 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

**Uncontrolled Environments** are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

**Controlled Environments** are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e.as a result of employment or occupation).



## **8. SYSTEM VERIFICATION**

## **8.1 Tissue Verification**

Freq. [MHz]	Date	Liquid	Liquid Temp.[°C]	Parameters	Target Value	Measured Value	Deviation [%]	Limit [%]	
835	Dec. 5, 2010	Head	21.2	εr	41.5	42	+ 1.20	± 5	
035	Dec. 5, 2010	пеац	21.2	σ	0.90	0.889	- 1.22	± 5	
835	Dec. 5, 2010	Bady	21.2	εr	55.2	56.89	+ 3.06	± 5	
635	Dec. 5, 2010	Body	21.2	σ	0.97	0.98	+ 1.03	± 5	
1 900	Dog 6 2010	Head	21.1	εr	40.0	38.5	- 3.75	± 5	
1 900	Dec. 6, 2010	neau	пеаа	21.1	σ	1.40	1.42	+ 1.43	± 5
1 900	Dec. 6, 2010	Body	21.1	εr	53.3	51.52	- 3.34	± 5	
1 900	Dec. 0, 2010	воцу	21.1	σ	1.52	1.57	+ 3.29	± 5	

### **8.2 System Validation**

Prior to assessment, the system is verified to the  $\pm$  10 % of the specifications at 835 MHz / 1 900 MHz by using the system validation kit. (Graphic Plots Attached)

<sup>\*</sup> Input Power: 100 m W

Freq. [MHz]	Date	Liquid	Liquid Temp. [°C]	SAR Average	Target Value (SPEAG) (mW/g)	*Measured Value (mW/g)	Deviation [%]	Limit [%]
835	Dec. 5, 2010	Head	21.2	1 g	9.66	0.964	- 0.21	± 10
1 900	Dec. 6, 2010	Head	21.1	1 g	39.9	3.97	- 0.50	± 10

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### 9. RF CONDUCTED POWER

Power measurements were performed using a base station simulator under digital average power

#### 9.1 Procedures Used to Establish RF Signal for SAR

The handset was placed into a simulated call using a base station simulator in a shielded chamber. Such test signals offer a consistent means for testing SAR and are recommended for evaluation SAR[4] SAR measurements were taken with a fully charged battery. In order to verify that the device was tested and maintained at full power, this was configured with the base station simulator. The SAR measurement Software calculates a reference point at the start and end of the test to check for power drifts. If conducted Power deviations of more then 5 % occurred, the tests were repeated.

#### 9.2 SAR Measurement Conditions for UMTS

Body SAR is not required for handsets with HSDPA capabilities when the maximum average output of each RF channel with HSDPA active is less than  $\frac{1}{4}$  dB higher than that measured without HSDPA using 12.2 kbps RMC and the maximum SAR for 12.2 kbps RMC is  $\leq$  75 % of the SAR limit. Otherwise, SAR is Measured for HSDPA, using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, using the highest body SAR configuration in 12.2 kbps RMC without HSDPA, on the maximum output channel with the body exposure configuration that results in the highest SAR in 12.2 kbps RMC for that RF channel.

#### 9.2.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3 GPP TS 34.121, using the appropriate RMC or AMR with TPC(transmit power control) set to all "1s"

#### 9.2.2 Head SAR Measurements

SAR for head exposure configurations is measured using the 12.2 kbps RMC with TPC bits configured to all "1s". SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2 kbps AMR is less than ¼ dB higher than that measured in 12.2 kbps RMC. Otherwise, SAR is measured on the maximum output channel in 12.2 AMR with a 3.4 kbps SRB (signaling radio bearer) using the exposure configuration that results in the highest SAR for that RF channel in 12.2 RMC.

#### 9.2.3 Body SAR Measurement

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all "1s".



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#### 9.2.4 Handsets with Release 5 HSDPA

Body SAR is not required for handsets with HSDPA capabilities when the maximum average output of each RF channel with HSDPA active is less than 1/4 dB higher than that measured without HSDPA using 12.2 kbps RMC and the maximum SAR for 12.2 kbps RMC is  $\leq$  75 % of the SAR limit. Otherwise, SAR is Measured for HSDPA, using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, using the highest body SAR configuration in 12.2 kbps RMC without HSDPA, on the maximum output channel with the body exposure configuration that results in the highest SAR in 12.2 kbps RMC for that RF channel. SI

Sub-test	βc	βa	β <sub>d</sub> (SF)	$\beta_c/\beta_d$	$\beta_{hs}^{(J)}$	CM (dB) <sup>(2)</sup>
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15(3)	15/15 <sup>(3)</sup>	64	12/15(3)	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

ub-Test 1	Setup	for Release	5	HSDPA

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ 

Note 2: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ .

Note 3: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

		Voice	GPR	S Data	EDGE Data		
Band	Channel	GSM (dBm)	GPRS 1 TX Slot (dBm)	GPRS 2 TX Slot (dBm)	EDGE 1 TX Slot (dBm)	EDGE 2 TX Slot (dBm)	
0014	128	32.41	32.41	32.38	26.89	26.90	
GSM 850	190	32.40	32.40	32.37	26.89	26.89	
	251	32.38	32.38	32.36	26.88	26.87	
0.014	512	29.85	29.84	29.81	25.90	25.89	
GSM 1900	661	30.02	30.01	29.99	26.09	26.07	
	810	30.13	30.13	30.10	26.22	26.21	

Table 1. GSM Conducted output powers

		HSDPA	HSDPA INACTIVE			
Band	Channel	12.2kbps RMC(dBm)	12.2kbps ARM(dBm)	12.2kbps RMC(dBm)		
	4132	23.12	23.11	22.60		
WCDMA 850	4183	22.97	22.95	22.60		
000	4233	23.05	23.04	22.64		
	9262	23.01	22.97	23.07		
WCDMA 1900	9400	22.90	22.87	23.01		
1000	9538	22.68	22.41	23.19		

Table 2. WCDMA Conducted output powers



## **10. SAR Evaluation Considerations for Handsets with**

## **Multiple Transmitters and Antennas**

#### **10.1 SAR Evaluation Considerations**

These procedures were followed according to FCC "SAR Evaluation Considerations for Handsets with Multiple Transmitters and Antennas", May 2008. The procedures are applicable to phones with built-in unlicensed transmitters, such as 802.11 a/b/g and Bluetooth devices.

	2.45	5.15 - 5.35	5.47 - 5.85	GHz
P <sub>Ref</sub>	12	6	5	mW
Device output pov	ver should be rounded	to the nearest mW	to compare with valu	ues specified in this

utput power s	should	be rounde	d to the	nearest n	nW to	compare wit	th values	specified	in this	S

	Individual Transmitter	Simultaneous Transmission
Licensed Transmitters	Routine evaluation required	SAR not required: Unlicensed only
Unlicensed Transmitters		<ul> <li>o when stand-alone 1-g SAR is not required and antenna is ≥ 5 cm from other antennas</li> <li>Licensed &amp; Unlicensed</li> <li>o when the sum of the 1-g SAR is &lt; 1.6 W/kg for all simultaneous transmitting antennas</li> <li>o when SAR to peak location separation ratio of simultaneous transmitting antenna pair is &lt; 0.3</li> <li>SAR required:</li> <li>Licensed &amp; Unlicensed antenna pairs with SAR to peak location separation ratio ≥ 0.3; test is only required for the configuration that results in the highest SAR in stand-alone configuration for each wireless mode and exposure condition</li> <li>Note: simultaneous transmission exposure conditions for head and body can be different for different test requirements may apply</li> </ul>
Jaw, Mouth and Nose	Flat phantom SAR required         o when measurement is required in tight regions of SAM and it is not feasible or the results can be questionable due to probe tilt, calibration, positioning and orientation issues         o position rectangular and clam-shell phones according to flat phantom procedures and conduct SAR measurements for these specific locations	When simultaneous transmission SAR testing is required, contact the FCC Laboratory for interim guidance.

Table. 11.2 SAR Evaluation Requirements for Cellphones with Multiple Transmitters

FCC ID: JYCP6010

BT Max. RF output power: 4.83 dBm (3.04 mW)

Antenna separation distance: 7.98 cm

Because the conducted output power level of the BT transmitter is less than 2\*P<sub>ref</sub>, and the BT antenna is more than 5 cm from the Main antenna, neither simultaneous SAR nor stand-alone BT SAR are required for

the EUT.



## **11. SAR TEST DATA SUMMARY**

### 11.1 Measurement Results (GSM850 Head SAR Touch Slide down)

ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Populatio					on		Head W/kg (mV reraged over 1 gra		
836.6	190 (Mid)	GSM850	32.40	32.40 32.22		Right Ear	Intenna	0.360	
836.6	190 (Mid)	GSM850	32.40	32.43	Standard	Left Ear	Intenna	0.314	
MHz	Channel		Begin	End		Position	туре		
Frequency		Modulation	tion (dBm)		Battery	Phantom Position	Antenna Type	SAR(mW/g)	

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical 1 configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type ⊠ Standard □ Extended □ Slim

  - Batteries are fully charged for all readings. **Test Signal Call Mode** □ Manual Test cord ☑ Base Station Simulator
- 6 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



### 11.2 Measurement Results (GSM850 Head SAR Tilt Slide down)

Fre	quency	Modulation		ed Power 3m)	Battery	Phantom	Antenna	SAR(mW/g)	
MHz	Channel		Begin	End		Position	Туре		
836.6	190 (Mid)	GSM850	32.40	32.41	Standard	Left Tilt 15°	Intenna	0.227	
836.6	190 (Mid)	GSM850	32.40	32.40	Standard	Right Tilt 15°	Intenna	0.233	
U	ANSI/ IEE	E C95.1 - 1 Spatial Exposure	Peak	•			Head W/kg (mV veraged over 1 gra		

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- 4 Tissue parameters and temperatures are listed on the SAR plot.
   5 Battery Type
   ⊠ Standard
   □ Extended
  - Battery Type⊠ Standard□ Extended□ SlimBatteries are fully charged for all readings.
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



### 11.3 Measurement Results (GSM850 Head SAR Touch Slide up)

Free	quency	Modulation	Conducte (dE	ed Power 8m)	Battery	Phantom	Antenna Type	SAR(mW/g)	
MHz	Channel		Begin	End		Position			
836.6	190 (Mid)	GSM850	32.40	32.38	Standard	Left Ear	Intenna	0.417	
836.6	190 (Mid)	GSM850	32.40	32.40 32.49		Right Ear	Intenna	0.448	
U	ANSI/ IEE	E C95.1 - 1 Spatial   Exposure/	Peak	on		Head W/kg (mV veraged over 1 gra			

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- - Battery Type⊠ Standard□ Extended□ SlimBatteries are fully charged for all readings.
- 6 Test Signal Call Mode □ Manual Test cord ⊠ Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



## 11.4 Measurement Results (GSM850 Head SAR Tilt Slide up)

Fre	quency	Modulation	Conducted Power (dBm)		Battery	Phantom	Antenna	SAR(mW/g)	
MHz	Channel	annel		End		Position	Туре		
836.6	190 (Mid)	GSM850	32.40	32.27	Standard	Left Tilt 15°	Intenna	0.272	
836.6	190 (Mid)	GSM850	32.40	32.40 32.43		Right Tilt 15°	Intenna	0.290	
U	ANSI/ IEE	E C95.1 - 1 Spatial Exposure	Peak			Head W/kg (mV			

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- - Battery TypeImage: StandardImage: ExtendedImage: SlimBatteries are fully charged for all readings.
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



### 11.5 Measurement Results (GSM1900 Head SAR Touch Slide down)

Fre	Frequency Modulation		odulation Conducted Power (dBm) End		Battery	Phantom	Antenna	SAR(mW/g)
MHz						Position	Туре	
1 880.0	661 (Mid)	GSM1900	30.02	29.93	Standard	Left Ear	Intenna	0.226
1 880.0	661 (Mid)	GSM1900	30.02	30.06	Standard	Right Ear	Intenna	0.365
U		E C95.1 - 1 Spatial d Exposure		Head W/kg (mV				

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- - Battery Type⊠ Standard□ Extended□ SlimBatteries are fully charged for all readings.
- 6 Test Signal Call Mode □ Manual Test cord ⊠ Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



### 11.6 Measurement Results (GSM1900 Head SAR Tilt Slide down)

Fre	Frequency		Conducted Power (dBm)		Battery	Phantom	Antenna	SAR(mW/g)
MHz	Channel		Begin	End		Position	Туре	
1 880.0	661 (Mid)	GSM1900	30.02	29.96	Standard	Left Tilt 15°	Intenna	0.219
1 880.0	661 (Mid)	GSM1900	30.02	29.94	Standard	Right Tilt 15°	Intenna	0.181
U	ANSI/ IEE	E C95.1 - 1 Spatial Exposure	ion		Head W/kg (mV Averaged over 1 gra			

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- - Battery Type⊠ Standard□ Extended□ SlimBatteries are fully charged for all readings.
- 6 Test Signal Call Mode □ Manual Test cord ⊠ Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



### 11.7 Measurement Results (GSM1900 Head SAR Touch Slide up)

Fre	quency	Modulation	Conducted Power (dBm)		Battery	Phantom	Antenna	SAR(mW/g)	
MHz	z Channel		Begin	End		Position	Туре		
1 880.0	661 (Mid)	GSM1900	30.02	30.06	Standard	Left Ear	Intenna	0.292	
1 880.0	661 (Mid)	GSM1900	30.02	29.96	Standard	Right Ear	Intenna	0.186	
U	ANSI/ IEE	E C95.1 - 1 Spatial d Exposure		Head W/kg (mV					

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- 4 Tissue parameters and temperatures are listed on the SAR plot.
   5 Battery Type
   ⊠ Standard
   □ Extended
  - Battery Type⊠ Standard□ Extended□ SlimBatteries are fully charged for all readings.
- 6 Test Signal Call Mode □ Manual Test cord ⊠ Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



### 11.8 Measurement Results (GSM1900 Head SAR Tilt Slide up)

Fre	Frequency Mode MHz Channel		Conducted Power (dBm)		Battery	Phantom Position	Antenna	SAR(mW/g)
MHz			Begin	End		FUSILION	Туре	
1 880.0	661 (Mid)	GSM1900	30.02	29.94	Standard	Left Tilt 15°	Intenna	0.158
1 880.0	661 (Mid)	GSM1900	30.02	30.01	Standard	Right Tilt 15°	Intenna	0.126
U	ANSI/ IEE	E C95.1 - 1 Spatial Exposure			Head W/kg (mV Averaged over 1 gra			

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm  $\pm$  0.2 cm.
- - Battery Type⊠ Standard□ Extended□ SlimBatteries are fully charged for all readings.
- 6 Test Signal Call Mode □ Manual Test cord ⊠ Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



#### 11.9 Measurement Results (WCDMA850 Head SAR Touch Slide down)

Fre	quency	Modulation	Conducted Power (dBm)		Battery	Phantom Position	Antenna	SAR(mW/g)
MHz	Channel		Begin	End		Position	Туре	
836.6	4183 (Mid)	WCDMA850	22.97	22.88	Standard	Left Ear	Intenna	0.246
836.6	4183 (Mid)	WCDMA850	22.97	22.95	Standard	Right Ear	Intenna	0.253
U		E C95.1 - 19 Spatial P I Exposure/			Head W/kg (mV veraged over 1 gra			

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- 4 Tissue parameters and temperatures are listed on the SAR plot.
   5 Battery Type
   ⊠ Standard
   □ Extended
  - Battery Type⊠ Standard□ Extended□ SlimBatteries are fully charged for all readings.
- 6 Test Signal Call Mode 🗆 Manual Test cord 🛛 Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 WCDMA Mode was tested under RMC 12.2 kbps and HSDPA Inactive.



### 11.10 Measurement Results (WCDMA850 Head SAR Tilt Slide down)

Fre	quency	Modulation	Conducted Power (dBm)		Battery	Phantom Position	Antenna	SAR(mW/g)
MHz	Channel		Begin	End		Position	Туре	
836.6	4183 (Mid)	WCDMA850	22.97	22.95	Standard	Left Tilt 15°	Intenna	0.170
836.6	4183 (Mid)	WCDMA850	22.97	23.03	Standard	Right Tilt 15°	Intenna	0.167
U		E C95.1 - 19 Spatial P I Exposure/	on		Head W/kg (mV			

#### NOTES:

5

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
  - Battery TypeImage: StandardImage: ExtendedImage: SlimBatteries are fully charged for all readings.
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 WCDMA Mode was tested under RMC 12.2 kbps and HSDPA Inactive.



### 11.11 Measurement Results (WCDMA850 Head SAR Touch Slide up)

Fre	quency	Modulation	Conducted Power (dBm)		Battery	Phantom Position	Antenna	SAR(mW/g)
MHz	Channel		Begin	End		FUSILION	Туре	
836.6	4183 (Mid)	WCDMA850	22.97 22.98		Standard	Left Ear	Intenna	0.298
836.6	4183 (Mid)	WCDMA850	22.97 22.98		Standard	Right Ear	Intenna	0.284
U		E C95.1 - 19 Spatial P I Exposure/	eak	on		Head W/kg (mV		

#### NOTES:

5

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
  - Battery TypeImage: StandardImage: ExtendedImage: SlimBatteries are fully charged for all readings.
- 6 Test Signal Call Mode □ Manual Test cord ⊠ Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 WCDMA Mode was tested under RMC 12.2 kbps and HSDPA Inactive.



### 11.12 Measurement Results (WCDMA850 Head SAR Tilt Slide up)

Fre	quency	Modulation	Conducted Power (dBm)		Battery	Phantom	Antenna	SAR(mW/g)	
MHz	Channel		Begin	End		Position	Туре		
836.6	4183 (Mid)	WCDMA850	22.97	22.95	Standard	Left Tilt 15°	Intenna	0.188	
836.6	4183 (Mid)	WCDMA850	22.97	22.97 22.95		Right Tilt 15°	Intenna	0.174	
U		E C95.1 - 19 Spatial P Exposure/	Peak			Head W/kg (mV			

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- 4 Tissue parameters and temperatures are listed on the SAR plot.
  5 Battery Type ⊠ Standard □ Extended
  - Battery Type⊠ Standard□ Extended□ SlimBatteries are fully charged for all readings.
- 6 Test Signal Call Mode 

  Manual Test cord

  Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 WCDMA Mode was tested under RMC 12.2 kbps and HSDPA Inactive.



### 11.13 Measurement Results (WCDMA1900 Head SAR Touch Slide down)

Free	quency	Modulation	Conducted Power (dBm)		Battery	Phantom	Antenna	SAR(mW/g)	
MHz	Channel		Begin	End		Position Type			
1 880.0	9400 (Mid)	WCDMA1900	22.90	22.81	Standard	Left Ear	Intenna	0.334	
1 880.0	9400 (Mid)	WCDMA1900	22.90	22.90 22.97		Right Ear	Intenna	0.486	
U		EE C95.1 - 19 Spatial P d Exposure/			Head W/kg (mV				

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type ⊠ Standard □ Extended □ Slim Batteries are fully charged for all readings.
- 6 Test Signal Call Mode □ Manual Test cord ⊠ Base Station Simulator
- 7 WCDMA Mode was tested under RMC 12.2 kbps and HSDPA Inactive.



### 11.14 Measurement Results (WCDMA1900 Head SAR Tilt Slide down)

Fred	quency	Modulation	Conducted Power (dBm)		Battery	Phantom	Antenna	SAR(mW/g)	
MHz	Channel		Begin	End		Position Type			
1 880.0	9400 (Mid)	WCDMA1900	22.90	22.87	Standard	Left Tilt 15°	Intenna	0.312	
1 880.0	9400 (Mid)	WCDMA1900	22.90	22.93	Standard	Right Tilt 15°	Intenna	0.235	
U		EE C95.1 - 19 Spatial P d Exposure/	ion		Head W/kg (mV				

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- - Battery Type⊠ Standard□ Extended□ SlimBatteries are fully charged for all readings.
- 6 Test Signal Call Mode □ Manual Test cord ⊠ Base Station Simulator
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 WCDMA Mode was tested under RMC 12.2 kbps and HSDPA Inactive.



## 11.15 Measurement Results (WCDMA1900 Head SAR Touch Slide up)

Free	quency	Modulation	Conducted Power (dBm)		Battery	Phantom	Antenna	SAR(mW/g)	
MHz	MHz Channel		Begin	End		Position	Туре		
1 880.0	9400 (Mid)	WCDMA1900	22.90	22.92	Standard	Left Ear	Intenna	0.380	
1 880.0	9400 (Mid)	WCDMA1900	22.90	22.90 22.98		Right Ear	Intenna	0.297	
U		EE C95.1 - 19 Spatial P d Exposure/			Head W/kg (mV veraged over 1 gra				

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type ⊠ Standard □ Extended □ Slim Batteries are fully charged for all readings.
- 6 Test Signal Call Mode □ Manual Test cord ⊠ Base Station Simulator
- 7 WCDMA Mode was tested under RMC 12.2 kbps and HSDPA Inactive.



### 11.16 Measurement Results (WCDMA1900 Head SAR Tilt Slide up)

Frequency		Modulation	Conducted Power (dBm)		Battery	Phantom	Antenna	SAR(mW/g)
MHz	Channel		Begin	End		Position	Туре	
1 880.0	9400 (Mid)	WCDMA1900	22.90	22.72	Standard	Left Tilt 15°	Intenna	0.233
1 880.0	9400 (Mid)	WCDMA1900	22.90	22.74	Standard	Right Tilt 15°	Intenna	0.245
ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Head 1.6 W/kg (mW/g) Averaged over 1 gram		

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- - Battery Type⊠ Standard□ Extended□ SlimBatteries are fully charged for all readings.
- 7 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 8 WCDMA Mode was tested under RMC 12.2 kbps and HSDPA Inactive.



# 11.17 Measurement Results (GSM850 Body SAR)

Fre	quency	Conducted Pow Modulation (dBm)			Configuration	Phantom	Antenna	SAR(mW/g)
MHz	Channel		Begin	End		Position	Туре	
836.6	190 (Mid)	GPRS 2Tx	32.37	32.34	Rear	2.0 cm without Holster	Intenna	0.590
836.6	190 (Mid)	GPRS 2Tx	32.37	32.47	Rear	2.0 cm without Holster	Intenna	0.301
836.6	190 (Mid)	GSM850	32.40	32.44	Rear	2.0 cm without Holster	Intenna	0.301
	ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population						Body V/kg (mW raged over 1 gran	

# NOTES:

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- 4 Tissue parameters and temperatures are listed on the SAR plot.

- 7 Both side of the phone were tested and the worst-case side is reported.
- 9 HEADSET was connected.
- 10 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



# 11.18 Measurement Results (GSM1900 Body SAR)

Frequency		Conducted Power Modulation (dBm)		Configuration	Phantom	Antenna	SAR(mW/g)	
MHz	Channel		Begin	End		Position	Туре	
1 880.0	661 (Mid)	GPRS 2Tx	29.99	29.84	Rear	2.0 cm without Holster	Intenna	0.449
1 880.0	661 (Mid)	GPRS 1Tx	30.01	30.11	Rear	2.0 cm without Holster	Intenna	0.230
1 880.0	661 (Mid)	GSM1900	30.02	29.99	Rear	2.0 cm without Holster	Intenna	0.229
ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Population							Body //kg (mW aged over 1 gran	

# NOTES:

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical 1 configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is  $15.0 \text{ cm} \pm 0.2 \text{ cm}$ .
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type ⊠ Standard □ Slim □ Extended Batteries are fully charged for all readings.
- 6 Test Signal Call Mode □ Manual Test cord ⊠ Base Station Simulator
- 7 Both side of the phone were tested and the worst-case side is reported.
- 8 Test Configuration □ With Holster ⊠ Without Holster
- HEADSET was connected. 9
- Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR 10 measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).



# 11.19 Measurement Results (WCDMA850 Body SAR)

Frequency		Modulation (dBm)		Configuration	Phantom	Antenna	SAR(mW/g)	
MHz	Channel		Begin	End		Position	Туре	
836.6	4183 (Mid)	WCDMA850	22.97	22.98	Rear	2.0 cm without Holster	Intenna	0.308
	ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Populat						Body W/kg (m)	

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm  $\pm$  0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.

5 Battery Type ⊠ Standard □ Extended □ Slim Batteries are fully charged for all readings.

- 7 Both side of the phone were tested and the worst-case side is reported.
- 8 HEADSET was connected.
- 9 Test Configuration 

   With Holster

   Without Holster
- 10 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 11 WCDMA Mode was tested under RMC 12.2 kbps and HSDPA Inactive.



# 11.20 Measurement Results (WCDMA1900 Body SAR)

Frequency		Conducted Po Modulation (dBm)			Configuration	Phantom	Antenna	SAR(mW/g)
MHz	Channel		Begin	End		Position	Туре	
1 880.0	9400 (Mid)	WCDMA1900	22.90	22.84	Rear	2.0 cm without Holster	Intenna	0.287
ANSI/ IEEE C95.1 - 1992– Safety Limit Spatial Peak Uncontrolled Exposure/ General Populat							Body W/kg (m)	

- 1 The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supplement C [July 2001].
- 2 All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 cm  $\pm$  0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.

5 Battery Type ⊠ Standard □ Extended □ Slim Batteries are fully charged for all readings.

- 6 Test Signal Call Mode □ Manual Test cord ⊠ Base Station Simulator
- 7 Both side of the phone were tested and the worst-case side is reported.
- 8 HEADSET was connected.
- 9 Test Configuration 🗆 With Holster 🛛 Without Holster
- 10 Justification for reduced test configurations: per FCC/OET Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (Left, right, cheek/touch, tilt/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).
- 11 WCDMA Mode was tested under RMC 12.2 kbps and HSDPA Inactive.



The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/ IEEE C95.1 1992.

These measurements are taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests.



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FCC ID: JYCP6010

# Attachment 1. – SAR Test Plots



JYCP6010

Test Date:	Dec. 5, 2010
Ambient Temperature:	21.4 °C
Liquid Temperature:	21.2 °C
	GPRS Class10 and GPRS mode class $B(\ensuremath{GPRS}$ and $\ensuremath{GSM},$ but not simultaneously)
EUT Type:	GSM/WCDMA Phone with Bluetooth
Test Laboratory:	HCT CO., LTD

FCC ID:

#### DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

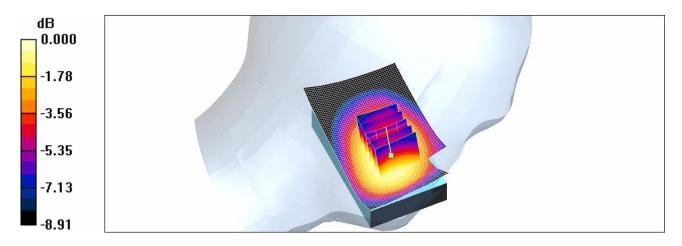
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

Left touch 190/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.331 mW/g

Left touch 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.12 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.382 W/kg SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.241 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.328 mW/g



 $0 \, dB = 0.328 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

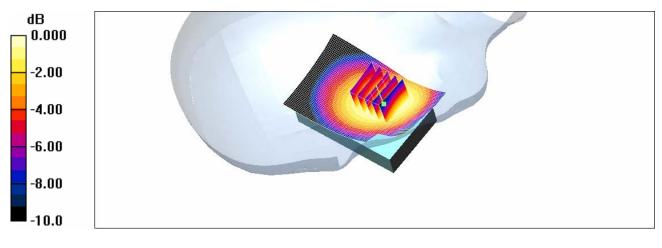
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

# Right touch 190/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.379 mW/g

Right touch 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.20 V/m; Power Drift = -0.085 dB Peak SAR (extrapolated) = 0.435 W/kg SAR(1 g) = 0.360 mW/g; SAR(10 g) = 0.275 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.379 mW/g



 $<sup>0 \,</sup> dB = 0.379 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

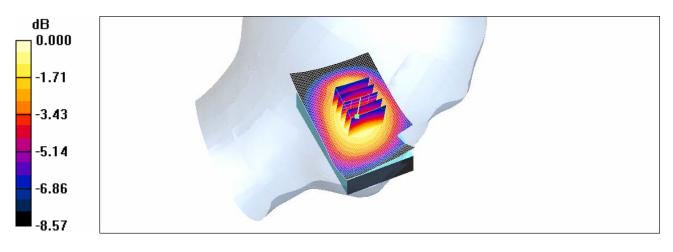
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

Left tilt 190/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.231 mW/g

Left tilt 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.2 V/m; Power Drift = 0.014 dB Peak SAR (extrapolated) = 0.284 W/kg SAR(1 g) = 0.227 mW/g; SAR(10 g) = 0.170 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.240 mW/g



 $0 \, dB = 0.240 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

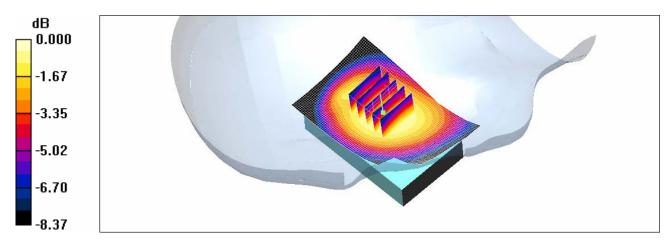
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

Right tilt 190/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.241 mW/g

Right tilt 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12.4 V/m; Power Drift = 0.004 dB Peak SAR (extrapolated) = 0.289 W/kg SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.176 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.247 mW/g



 $<sup>0 \,</sup> dB = 0.247 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide up; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

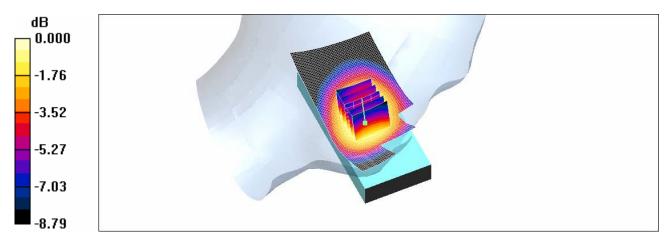
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

# Left touch 190/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.451 mW/g

Left touch 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 23.2 V/m; Power Drift = -0.017 dB Peak SAR (extrapolated) = 0.506 W/kg SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.319 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.439 mW/g



 $0 \, dB = 0.439 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

#### DUT: P6010; Type: Slide up; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

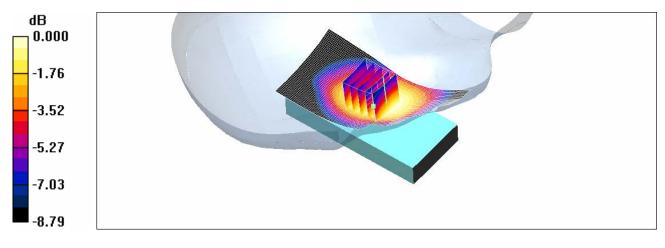
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

# Right touch 190/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.506 mW/g

Right touch 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 20.1 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.555 W/kg SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.342 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.472 mW/g



 $0 \, dB = 0.472 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

#### DUT: P6010; Type: Slide up; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

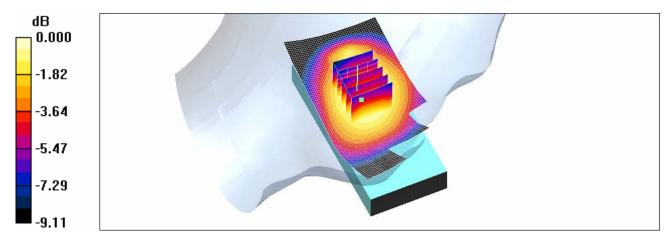
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

Left tilt 190/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.277 mW/g

Left tilt 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 16.2 V/m; Power Drift = -0.128 dB Peak SAR (extrapolated) = 0.335 W/kg SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.208 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.285 mW/g



 $0 \, dB = 0.285 mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide up; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

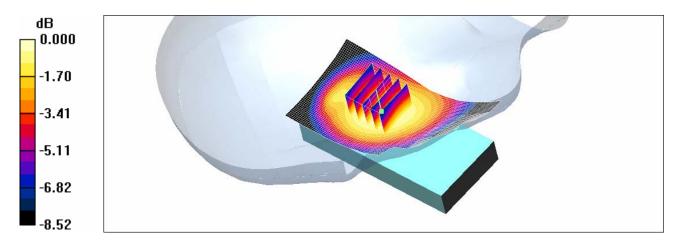
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

Right tilt 190/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.300 mW/g

Right tilt 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 15.7 V/m; Power Drift = 0.025 dB Peak SAR (extrapolated) = 0.352 W/kg SAR(1 g) = 0.290 mW/g; SAR(10 g) = 0.221 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.303 mW/g



 $0 \, dB = 0.303 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 - SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22

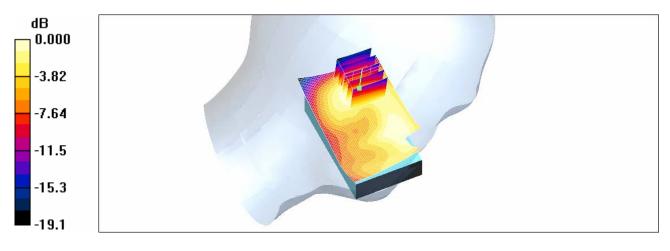
- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn869; Calibrated: 2010-09-21

- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 661/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.266 mW/g

Left touch 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.2 V/m; Power Drift = -0.086 dB Peak SAR (extrapolated) = 0.355 W/kg SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.135 mW/g Maximum value of SAR (measured) = 0.246 mW/g



0 dB = 0.246 mW/g



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

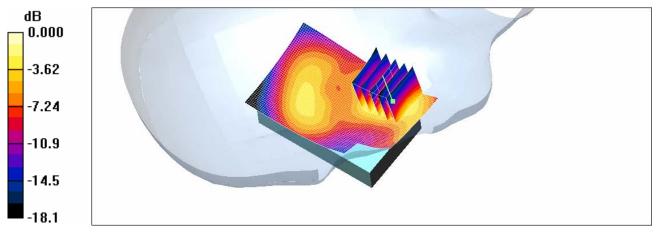
Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\varepsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 661/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.406 mW/g

Right touch 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.48 V/m; Power Drift = 0.044 dB Peak SAR (extrapolated) = 0.659 W/kg SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.191 mW/g Maximum value of SAR (measured) = 0.408 mW/g



0 dB = 0.408 mW/g



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6; p = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 - SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22

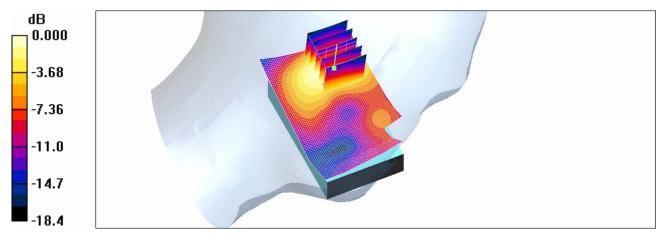
- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn869; Calibrated: 2010-09-21

- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 661/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.270 mW/g

Left tilt 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.5 V/m; Power Drift = -0.057 dB Peak SAR (extrapolated) = 0.366 W/kg SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.124 mW/g Maximum value of SAR (measured) = 0.239 mW/g



0 dB = 0.239 mW/g



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 - SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22

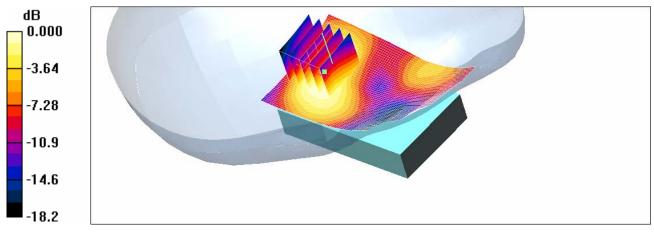
- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn869; Calibrated: 2010-09-21

- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 661/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.220 mW/g

Right tilt 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.4 V/m; Power Drift = -0.082 dB Peak SAR (extrapolated) = 0.291 W/kg SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.111 mW/g Maximum value of SAR (measured) = 0.197 mW/g



 $<sup>0 \,</sup> dB = 0.197 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

# DUT: P6010; Type: Slide up; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 - SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22

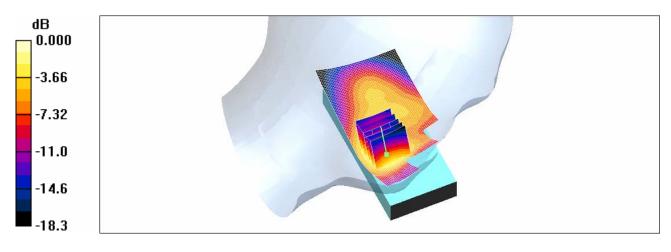
- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn869; Calibrated: 2010-09-21

- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 661/Area Scan (51x101x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.318 mW/g

Left touch 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.2 V/m; Power Drift = 0.036 dB Peak SAR (extrapolated) = 0.484 W/kg SAR(1 g) = 0.292 mW/g; SAR(10 g) = 0.167 mW/g Maximum value of SAR (measured) = 0.322 mW/g



<sup>0</sup> dB = 0.322 mW/g



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

#### DUT: P6010; Type: Slide up; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

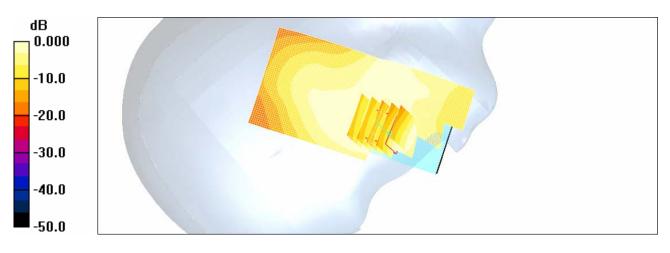
DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 661/Area Scan (51x101x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.200 mW/g

Right touch 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.2 V/m; Power Drift = -0.056 dB Peak SAR (extrapolated) = 0.305 W/kg SAR(1 g) = 0.186 mW/g; SAR(10 g) = 0.108 mW/g

Maximum value of SAR (measured) = 0.206 mW/g



 $<sup>0 \,</sup> dB = 0.206 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

#### DUT: P6010; Type: Slide up; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 - SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22

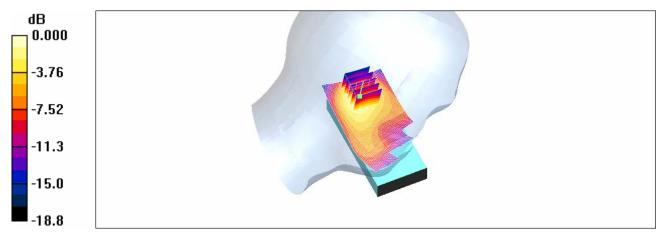
- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn869; Calibrated: 2010-09-21

- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 661/Area Scan (51x101x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.177 mW/g

Left tilt 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.30 V/m; Power Drift = -0.083 dB Peak SAR (extrapolated) = 0.255 W/kg SAR(1 g) = 0.158 mW/g; SAR(10 g) = 0.092 mW/g Maximum value of SAR (measured) = 0.174 mW/g



 $0 \, dB = 0.174 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

#### DUT: P6010; Type: Slide up; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 - SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22

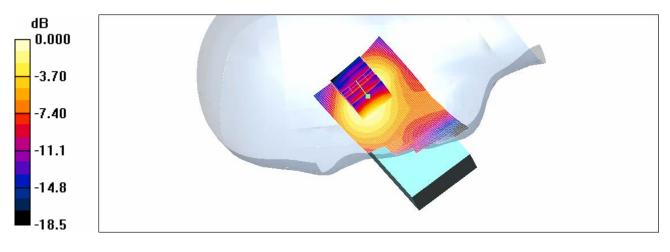
- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn869; Calibrated: 2010-09-21

- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 661/Area Scan (51x101x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.158 mW/g

Right tilt 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.58 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 0.201 W/kg SAR(1 g) = 0.126 mW/g; SAR(10 g) = 0.076 mW/g Maximum value of SAR (measured) = 0.134 mW/g



 $<sup>0 \,</sup> dB = 0.134 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

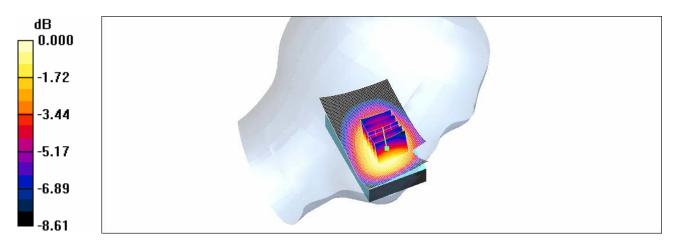
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

Left touch 4183/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.258 mW/g

Left touch 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.87 V/m; Power Drift = -0.087 dB Peak SAR (extrapolated) = 0.296 W/kg SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.189 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.258 mW/g



 $0 \, dB = 0.258 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

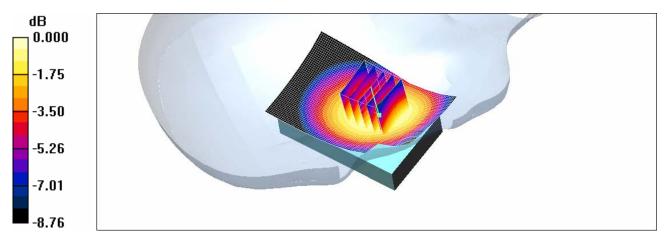
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

# Right touch 4183/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.266 mW/g

Right touch 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.54 V/m; Power Drift = -0.016 dB Peak SAR (extrapolated) = 0.305 W/kg SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.195 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.265 mW/g



 $0 \, dB = 0.265 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

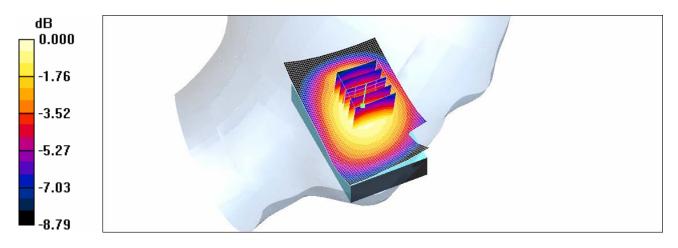
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

Left tilt 4183/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.174 mW/g

Left tilt 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.98 V/m; Power Drift = -0.017 dB Peak SAR (extrapolated) = 0.209 W/kg SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.129 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.178 mW/g



 $<sup>0 \,</sup> dB = 0.178 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

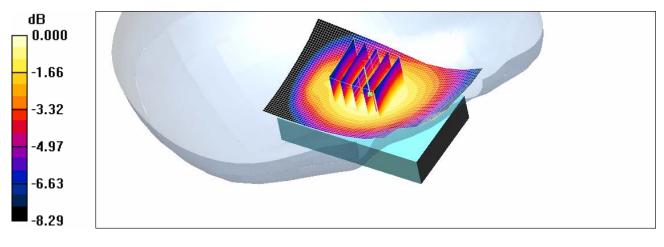
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

Right tilt 4183/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.172 mW/g

Right tilt 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.89 V/m; Power Drift = 0.057 dB Peak SAR (extrapolated) = 0.207 W/kg SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.127 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.175 mW/g



 $0 \, dB = 0.175 mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide up; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

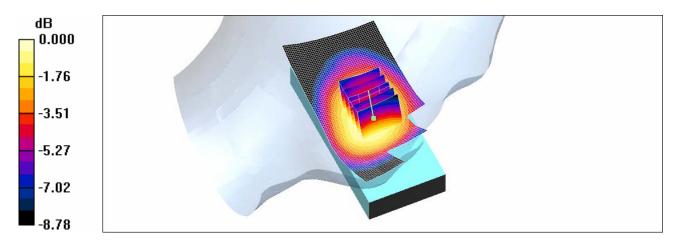
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

# Left touch 4183/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.309 mW/g

Left touch 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 19.0 V/m; Power Drift = 0.005 dB Peak SAR (extrapolated) = 0.364 W/kg SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.226 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.313 mW/g



 $0 \, dB = 0.313 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide up; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

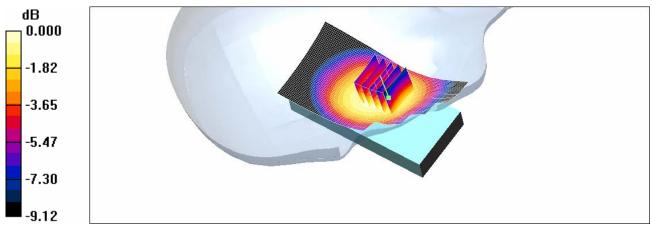
DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

# Right touch 4183/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.294 mW/g

Right touch 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 18.4 V/m; Power Drift = 0.012 dB Peak SAR (extrapolated) = 0.347 W/kg SAR(1 g) = 0.284 mW/g; SAR(10 g) = 0.218 mW/g Maximum value of SAR (measured) = 0.296 mW/g



 $<sup>0 \,</sup> dB = 0.296 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

#### DUT: P6010; Type: Slide up; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

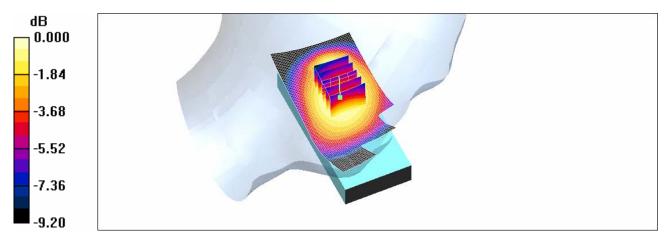
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

Left tilt 4183/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.196 mW/g

Left tilt 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 13.3 V/m; Power Drift = -0.023 dB Peak SAR (extrapolated) = 0.231 W/kg SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.144 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.198 mW/g



 $0 \, dB = 0.198 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

#### DUT: P6010; Type: Slide up; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

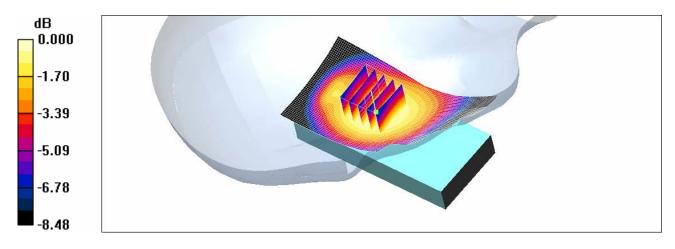
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

# Right tilt 4183/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.179 mW/g

Right tilt 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12.8 V/m; Power Drift = -0.016 dB Peak SAR (extrapolated) = 0.213 W/kg SAR(1 g) = 0.174 mW/g; SAR(10 g) = 0.133 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.182 mW/g



 $0 \, dB = 0.182 \, mW/g$ 



JYCP6010

HCT CO., LTD
GSM/WCDMA Phone with Bluetooth
GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
21.1 °C
21.3 °C
Dec. 6, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

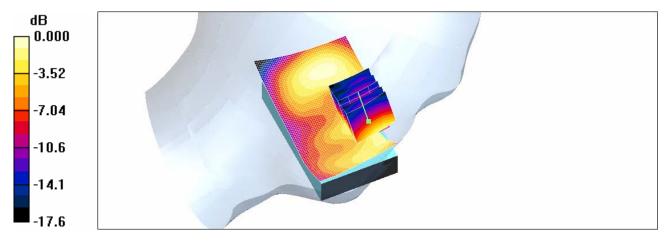
Communication System: WCDMA1900(FCC); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 9400/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.366 mW/g

Left touch 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 13.0 V/m; Power Drift = -0.095 dB Peak SAR (extrapolated) = 0.554 W/kg SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.187 mW/g Maximum value of SAR (measured) = 0.370 mW/g



 $0 \, dB = 0.370 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

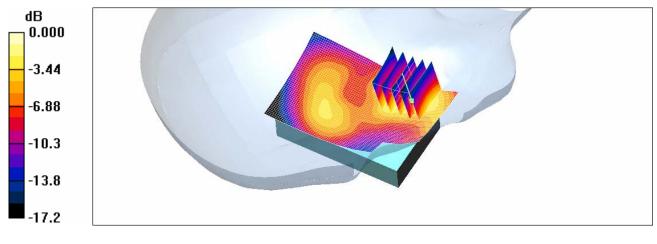
Communication System: WCDMA1900(FCC); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 9400/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.523 mW/g

Right touch 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.03 V/m; Power Drift = 0.068 dB Peak SAR (extrapolated) = 0.833 W/kg SAR(1 g) = 0.486 mW/g; SAR(10 g) = 0.261 mW/g Maximum value of SAR (measured) = 0.541 mW/g



 $0 \, dB = 0.541 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

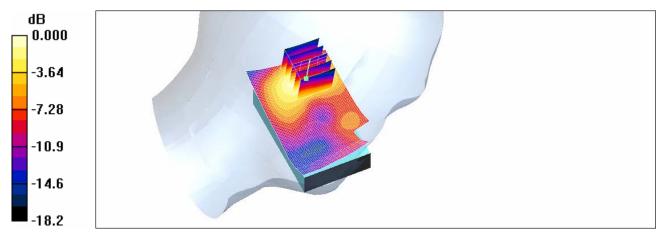
Communication System: WCDMA1900(FCC); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 9400/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.368 mW/g

Left tilt 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 14.3 V/m; Power Drift = -0.026 dB Peak SAR (extrapolated) = 0.524 W/kg SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.177 mW/g Maximum value of SAR (measured) = 0.343 mW/g



 $0 \, dB = 0.343 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

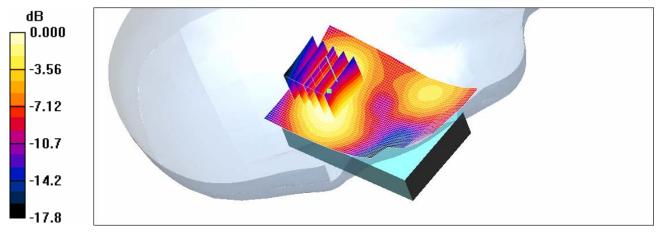
Communication System: WCDMA1900(FCC); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 9400/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.282 mW/g

Right tilt 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12.1 V/m; Power Drift = -0.030 dB Peak SAR (extrapolated) = 0.371 W/kg SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.145 mW/g Maximum value of SAR (measured) = 0.257 mW/g



0 dB = 0.257 mW/g



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

#### DUT: P6010; Type: Slide up; Serial: #1

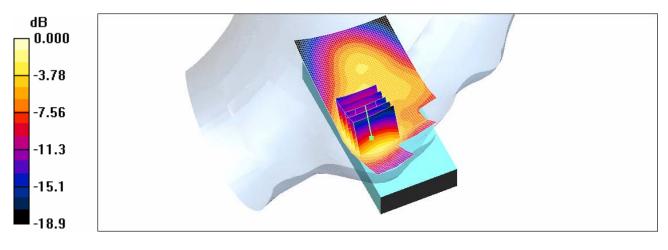
Communication System: WCDMA1900(FCC); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**Left touch 9400/Area Scan (51x101x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.410 mW/g

Left touch 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.3 V/m; Power Drift = 0.015 dB Peak SAR (extrapolated) = 0.630 W/kg SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.220 mW/g Maximum value of SAR (measured) = 0.419 mW/g



 $0 \, dB = 0.419 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

### DUT: P6010; Type: Slide up; Serial: #1

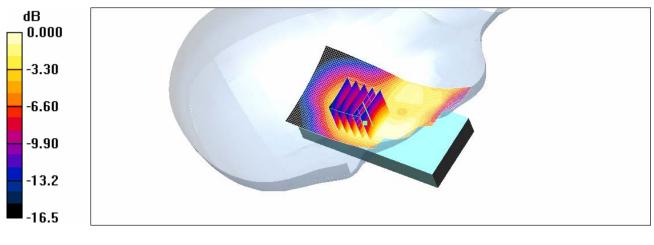
Communication System: WCDMA1900(FCC); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(5.04, 5.04, 5.04); Calibrated: 2008-04-07
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 9400/Area Scan (51x101x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.316 mW/g

Right touch 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12.1 V/m; Power Drift = 0.075 dB Peak SAR (extrapolated) = 0.470 W/kg SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.178 mW/g Maximum value of SAR (measured) = 0.324 mW/g



 $<sup>0 \,</sup> dB = 0.324 mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

### DUT: P6010; Type: Slide up; Serial: #1

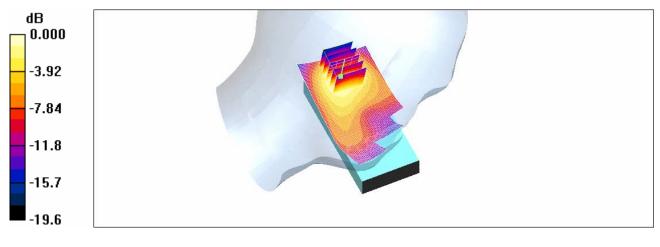
Communication System: WCDMA1900(FCC); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**Left tilt 9400/Area Scan (51x101x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.265 mW/g

Left tilt 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.62 V/m; Power Drift = -0.177 dB Peak SAR (extrapolated) = 0.375 W/kg SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.136 mW/g Maximum value of SAR (measured) = 0.256 mW/g



0 dB = 0.256 mW/g



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

### DUT: P6010; Type: Slide up; Serial: #1

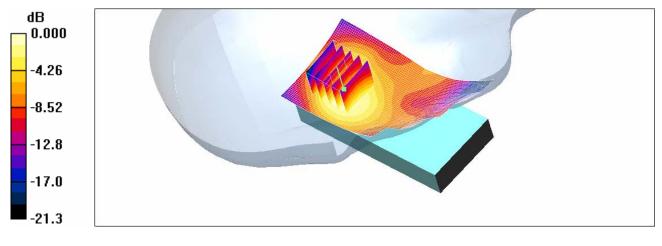
Communication System: WCDMA1900(FCC); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(5.04, 5.04, 5.04); Calibrated: 2008-04-07
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**Right tilt 9400/Area Scan (51x101x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.281 mW/g

Right tilt 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.41 V/m; Power Drift = -0.156 dB Peak SAR (extrapolated) = 0.383 W/kg SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.146 mW/g Maximum value of SAR (measured) = 0.266 mW/g



 $0 \, dB = 0.266 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

## DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:4.15 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.983 mho/m;  $\epsilon_r$  = 56.8;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

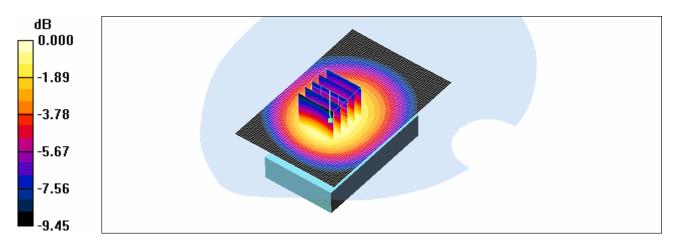
- Probe: ES3DV3 SN3161; ConvF(5.84, 5.84, 5.84); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

## GSM850 Body 190/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.629 mW/g

GSM850 Body 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 14.4 V/m; Power Drift = -0.028 dB Peak SAR (extrapolated) = 0.762 W/kg SAR(1 g) = 0.590 mW/g; SAR(10 g) = 0.429 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.627 mW/g



 $<sup>0 \,</sup> dB = 0.627 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

## DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.983 mho/m;  $\epsilon_r$  = 56.8;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

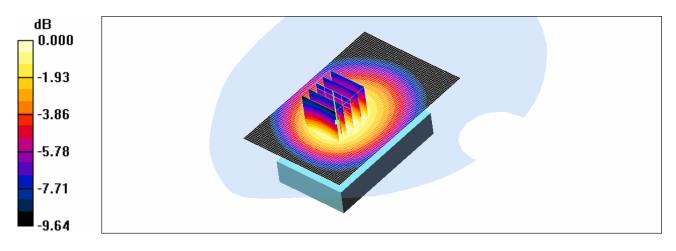
- Probe: ES3DV3 SN3161; ConvF(5.84, 5.84, 5.84); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

## GSM850 Body 190/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.321 mW/g

GSM850 Body 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.1 V/m; Power Drift = 0.097 dB Peak SAR (extrapolated) = 0.392 W/kg SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.218 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.319 mW/g



 $<sup>0 \,</sup> dB = 0.319 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

### DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.983 mho/m;  $\epsilon_r$  = 56.8;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

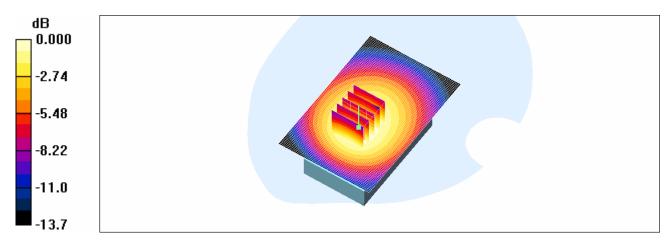
- Probe: ES3DV3 SN3161; ConvF(5.84, 5.84, 5.84); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

## GSM850 Body 190/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.322 mW/g

GSM850 Body 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 10.2 V/m; Power Drift = 0.040 dB Peak SAR (extrapolated) = 0.397 W/kg SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.219 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.317 mW/g



 $0 \, dB = 0.317 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

### DUT: P6010; Type: Slide down; Serial: #1

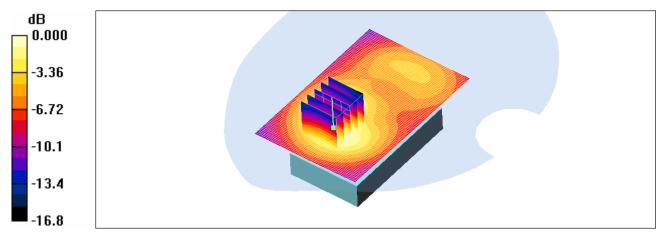
Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.15 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.55 mho/m;  $\epsilon_r$  = 51.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.52, 4.52, 4.52); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**GSM1900 Body 661/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.487 mW/g

GSM1900 Body 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.2 V/m; Power Drift = -0.148 dB Peak SAR (extrapolated) = 0.696 W/kg SAR(1 g) = 0.449 mW/g; SAR(10 g) = 0.272 mW/g Maximum value of SAR (measured) = 0.493 mW/g



 $<sup>0 \,</sup> dB = 0.493 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

## DUT: P6010; Type: Slide down; Serial: #1

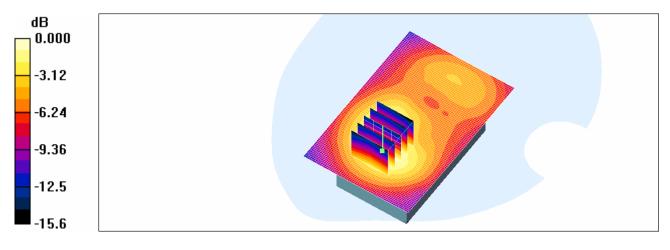
Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.55 mho/m;  $\epsilon_r$  = 51.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.52, 4.52, 4.52); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**GSM1900 Body 661/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.249 mW/g

GSM1900 Body 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.80 V/m; Power Drift = 0.102 dB Peak SAR (extrapolated) = 0.357 W/kg SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.139 mW/g Maximum value of SAR (measured) = 0.251 mW/g



0 dB = 0.251 mW/g



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

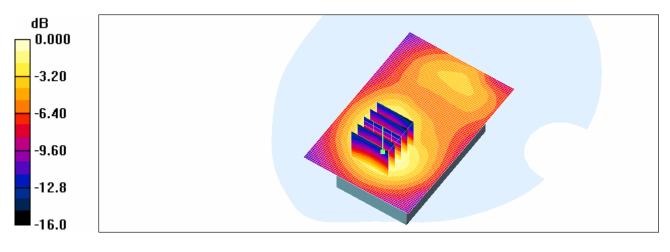
Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.55 mho/m;  $\epsilon_r$  = 51.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.52, 4.52, 4.52); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**GSM1900 Body 661/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.251 mW/g

GSM1900 Body 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 7.90 V/m; Power Drift = -0.027 dB Peak SAR (extrapolated) = 0.356 W/kg SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.139 mW/g Maximum value of SAR (measured) = 0.246 mW/g



 $<sup>0 \,</sup> dB = 0.246 \, mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

## DUT: P6010; Type: Slide down; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.983 mho/m;  $\epsilon_r$  = 56.8;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

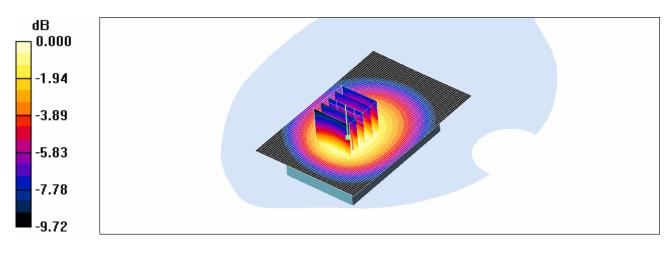
- Probe: ES3DV3 SN3161; ConvF(5.84, 5.84, 5.84); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

## WCDMA850 Body 4183/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.328 mW/g

WCDMA850 Body 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.63 V/m; Power Drift = 0.013 dB Peak SAR (extrapolated) = 0.402 W/kg SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.223 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.327 mW/g



 $0 \, dB = 0.327 \, mW/g$ 



JYCP6010

Test Date:	Dec. 6, 2010
Ambient Temperature:	21.3 °C
Liquid Temperature:	21.1 °C
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
EUT Type:	GSM/WCDMA Phone with Bluetooth
Test Laboratory:	HCT CO., LTD

FCC ID:

# DUT: P6010; Type: Slide down; Serial: #1

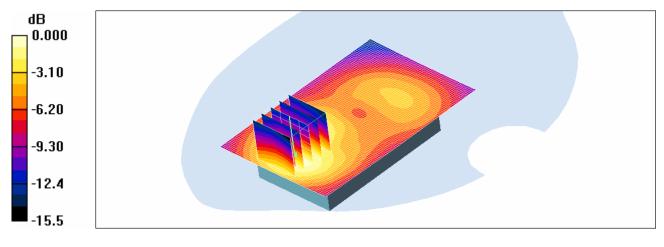
Communication System: WCDMA1900(FCC); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.55 mho/m;  $\epsilon_r$  = 51.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.52, 4.52, 4.52); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

WCDMA Body 9400/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.314 mW/g

WCDMA Body 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.24 V/m; Power Drift = -0.065 dB Peak SAR (extrapolated) = 0.432 W/kg SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.176 mW/g Maximum value of SAR (measured) = 0.313 mW/g



 $0 \, dB = 0.313 mW/g$ 



JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

### DUT: P6010; Type: Slide up; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

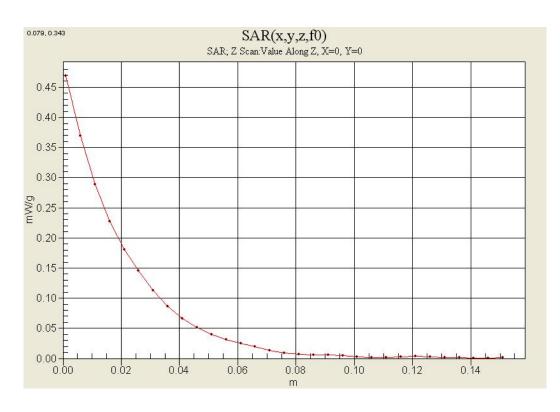
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

# Right touch 190/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.506 mW/g

Right touch 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 20.1 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.555 W/kg SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.342 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.472 mW/g





JYCP6010

Test Date:	Dec. 5, 2010
Ambient Temperature:	21.4 °C
Liquid Temperature:	21.2 °C
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
EUT Type:	GSM/WCDMA Phone with Bluetooth
Test Laboratory:	HCT CO., LTD

FCC ID:

#### DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:4.15 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.983 mho/m;  $\epsilon_r$  = 56.8;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

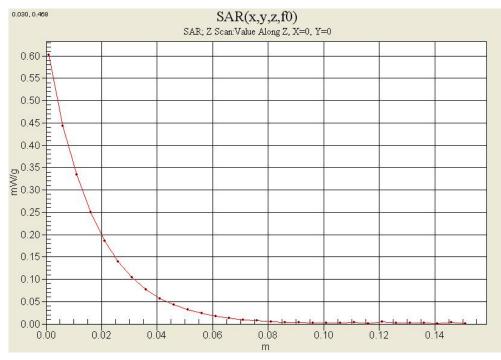
- Probe: ES3DV3 SN3161; ConvF(5.84, 5.84, 5.84); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

GSM850 Body 190/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.629 mW/g

GSM850 Body 190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 14.4 V/m; Power Drift = -0.028 dB Peak SAR (extrapolated) = 0.762 W/kg SAR(1 g) = 0.590 mW/g; SAR(10 g) = 0.429 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.627 mW/g





Test Date:	Dec. 6, 2010
Ambient Temperature:	21.3 °C
Liquid Temperature:	21.1 °C
	GPRS Class10 and GPRS mode class $B(\ensuremath{GPRS}$ and $\ensuremath{GSM},$ but not simultaneously)
EUT Type:	GSM/WCDMA Phone with Bluetooth
Test Laboratory:	HCT CO., LTD

## DUT: P6010; Type: Slide down; Serial: #1

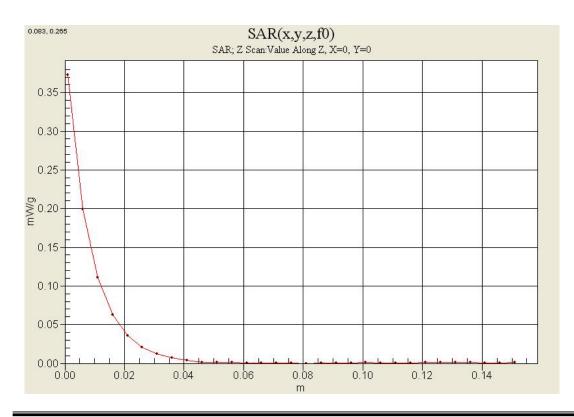
Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 661/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.406 mW/g

Right touch 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.48 V/m; Power Drift = 0.044 dB Peak SAR (extrapolated) = 0.659 W/kg SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.191 mW/g Maximum value of SAR (measured) = 0.408 mW/g





JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.1 °C
Ambient Temperature:	21.3 °C
Test Date:	Dec. 6, 2010

FCC ID:

### DUT: P6010; Type: Slide down; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:4.15 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.55 mho/m;  $\epsilon_r$  = 51.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 - SN3161; ConvF(4.52, 4.52, 4.52); Calibrated: 2010-03-22

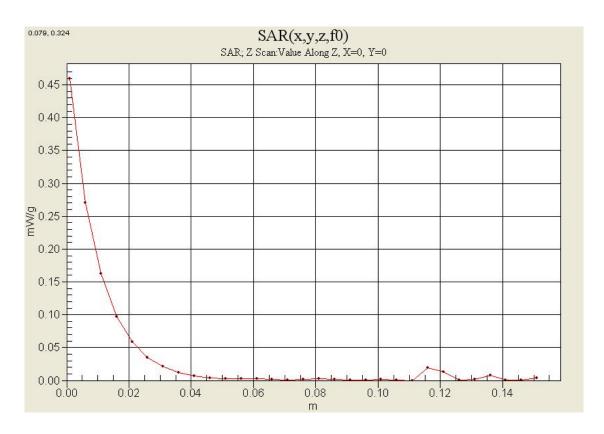
- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn869; Calibrated: 2010-09-21

- Phantom: 1800/1900 Phantom; Type: SAM

**GSM1900 Body 661/Area Scan (61x91x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.487 mW/g

GSM1900 Body 661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 11.2 V/m; Power Drift = -0.148 dB Peak SAR (extrapolated) = 0.696 W/kg SAR(1 g) = 0.449 mW/g; SAR(10 g) = 0.272 mW/g Maximum value of SAR (measured) = 0.493 mW/g





JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

### DUT: P6010; Type: Slide up; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.89 mho/m;  $\epsilon_r$  = 42;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Left Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

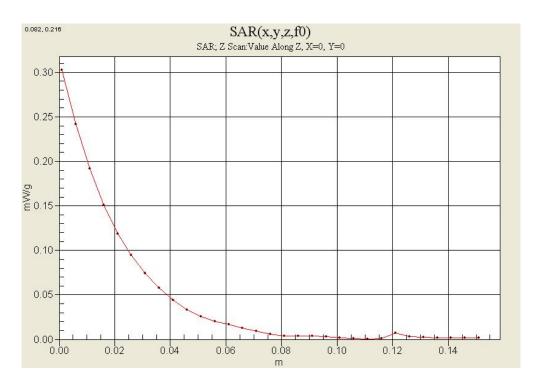
- Probe: ES3DV3 SN3161; ConvF(5.96, 5.96, 5.96); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

# Left touch 4183/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.309 mW/g

Left touch 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 19.0 V/m; Power Drift = 0.005 dB Peak SAR (extrapolated) = 0.364 W/kg SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.226 mW/g

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.313 mW/g





JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

## DUT: P6010; Type: Slide down; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.6 MHz;  $\sigma$  = 0.983 mho/m;  $\epsilon_r$  = 56.8;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

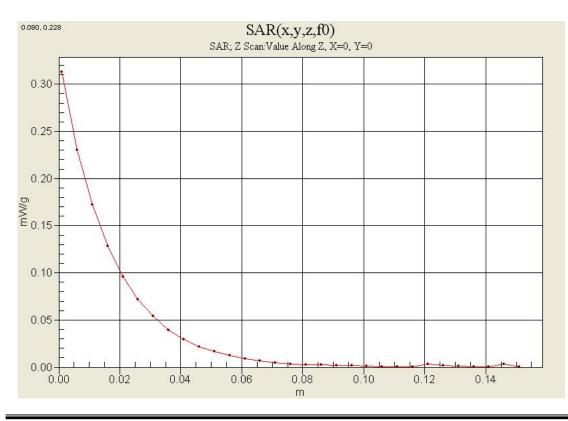
- Probe: ES3DV3 SN3161; ConvF(5.84, 5.84, 5.84); Calibrated: 2010-03-22
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2010-09-21
- Phantom: 835/900 Phamtom ; Type: SAM

## WCDMA850 Body 4183/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (interpolated) = 0.328 mW/g

WCDMA850 Body 4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.63 V/m; Power Drift = 0.013 dB Peak SAR (extrapolated) = 0.402 W/kg SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.223 mW/g

#### Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 0.327 mW/g





JYCP6010

Test Laboratory:	HCT CO., LTD
EUT Type:	GSM/WCDMA Phone with Bluetooth
	GPRS Class10 and GPRS mode class B(GPRS and GSM, but not simultaneously)
Liquid Temperature:	21.2 °C
Ambient Temperature:	21.4 °C
Test Date:	Dec. 5, 2010

FCC ID:

## DUT: P6010; Type: Slide down; Serial: #1

Communication System: WCDMA1900(FCC); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz;  $\sigma$  = 1.4 mho/m;  $\epsilon_r$  = 38.6;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Right Section ; Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ES3DV3 - SN3161; ConvF(4.79, 4.79, 4.79); Calibrated: 2010-03-22

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn869; Calibrated: 2010-09-21

- Phantom: 1800/1900 Phantom; Type: SAM

**Right touch 9400/Area Scan (51x81x1):** Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.523 mW/g

Right touch 9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 9.03 V/m; Power Drift = 0.368 dB Peak SAR (extrapolated) = 0.833 W/kg SAR(1 g) = 0.486 mW/g; SAR(10 g) = 0.261 mW/g Maximum value of SAR (measured) = 0.541 mW/g

