

SAR TEST REPORT

HCT CO., LTD

EUT Type:	Tri – Band CDMA Phone wi	th Bluetooth(CDMA / PC	S CDMA/ AWS CDMA)
FCC ID:	O6Y-CDM7126		
Model:	CDM7126C, CDM7126M	Trade Name	UTStarcom
Date of Issue:	Dec.28, 2007		
Test report No.:	HCT-SAR07-1211		
Test Laboratory:	HCT CO., LTD. SAN 136-1, AMI-RI, BUBAL TEL: +82 31 639 8518 FA		DUNGKI-DO, 467-701, KOREA
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Testing has been carried out in accordance with:	47CFR §2.1093 FCC OET Bulletin 65(Edition ANSI/ IEEE C95.1 – 2005 IEEE 1528-2003	n 97-01), Supplement C	(Edition 01-01)
Test result:	subject to the test. The tes	t results and statements	ts in respect of all parameters serelate only to the items tested.
Signature	Report prepared by : Sun-Hee Kim Test Engineer of SAR F	: 1	pproved by Nam-Wook Kang 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 (rate) of the incremental energy (dU) 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: conductivity of the tissue-simulant material (S/m) mass density of the tissue-simulant material (kg/m³) P 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	Tri – Band CDMA Phone with Bluetooth(CDMA/ PCS CDMA/ AWS CDMA)
FCC ID	O6Y-CDM7126
Model(s)	CDM7126C, CDM7126M
Trade Name	UTStarcom
Serial Number(s)	#1
Application Type	Certification
Modulation(s)	CDMA835/AWS1700/PCS1900
Tx Frequency	824.70 - 848.31 MHz (CDMA) 1 711.25 – 1 753.75 MHz (AWS CDMA) 1 851.25 – 1 908.75 MHz (PCS CDMA) 2 402 – 2 480 MHz (Bluetooth)
Rx Frequency	869.70 - 893.31 MHz (CDMA) 2 111.25 – 2 153.75 MHz (AWS CDMA) 1 931.25 – 1 988.75 MHz (PCS CDMA) 2 402 – 2 480 MHz (Bluetooth)
FCC Classification	Licensed Portable Transmitter Held to Ear (PCE)
Production Unit or Identical Prototype	Prototype
Max SAR	0.939 W/kg CDMA835 Head SAR / 0.561 W/kg CDMA835 Body SAR 0.575 W/kg AWS1700 Head SAR / 0.317 W/kg AWS1700 Body SAR 1.13 W/kg PCS1900 Head SAR / 0.259 W/kg PCS1900 Body SAR
Date(s) of Tests	Dec.24, 2007 ~ Dec.27, 2007
Antenna Type	Intenna



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.

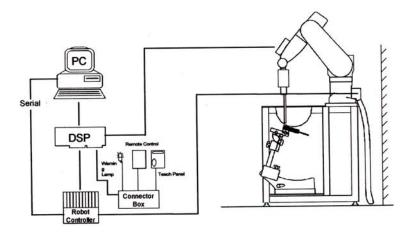


Figure 3.1 HCT SAR Lab. Test Measurement Set-up

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 DASY E-FIELD PROBE SYSTEM

3.2.1 ET3DV6 Probe Specification

Construction Symmetrical design with triangular core

Built-in optical fiber for surface detection System

Built-in shielding against static charges

Calibration In air from 10 MHz to 2.5 GHz

In brain and muscle simulating tissue at Frequencies of 450 MHz, 900 MHz and

1.8 GHz (accuracy: 8 %)

Frequency 10 MHz to > 6 GHz; Linearity: \pm 0.2 dB

(30 MHz to 3 GHz)

Directivity \pm 0.2 dB in brain tissue (rotation around probe axis)

 \pm 0.4 dB in brain tissue (rotation normal probe axis)

Dynamic 5 $\mu M/g$ to > 100 mW/g;

Range Linearity: $\pm 0.2 \text{ dB}$

Surface \pm 0.2 mm repeatability in air and clear liquids

Detection over diffuse reflecting surfaces.

Dimensions Overall length: 330 mm

Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm

Distance from probe tip to dipole centers: 2.7 mm

Application General dissymmetry up to 3 GHz

Compliance tests of mobile phones

Fast automatic scanning in arbitrary phantoms

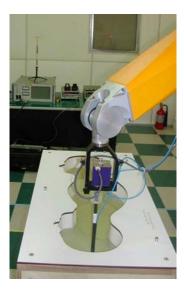


Figure 3.2 Photograph of the probe and the Phantom

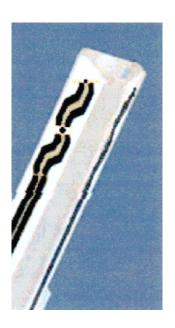


Figure 3.3 ET3DV6 E-field Probe

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 reflectivity 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 2nd 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 ± 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),

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

 ΔT = temperature increase due to RF exposure.

SAR is proportional to $\Delta T/\Delta t$, the initial rate of tissue heating, before thermal diffusion takes place. possible to quantify the electric field in the simulated tissue by equating the thermally derived SAR to the E-field;

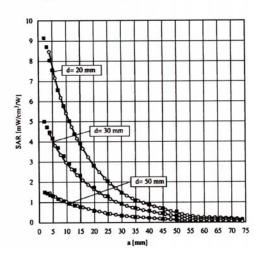


Figure 3.4 E-Field and Temperature measurements at 900 MHz

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

where:

= simulated tissue conductivity,

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

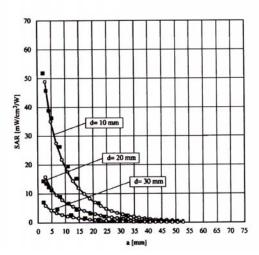


Figure 3.5 E-Field and temperature measurements at 1.8 GHz

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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
$$V_{i} = \text{compensated signal of channel i} \qquad \text{(i=x,y,z)}$$

$$U_{i} = \text{input signal of channel i} \qquad \text{(i=x,y,z)}$$

$$cf = \text{crest factor of exciting field} \qquad \text{(DASY parameter)}$$

$$dcp_{i} = \text{diode compression point} \qquad \text{(DASY parameter)}$$

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

= compensated signal of channel i (i = x,y,z) E-field probes: $Norm_i$ = sensor sensitivity of channel i (i = x,y,z) $E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$ μV/(V/m)² for E-field probes ConvF = sensitivity of enhancement in solution = 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.

= local specific absorption rate in W/g $SAR = E_{tot}^{2} \cdot \frac{\sigma}{\rho \cdot 1000}$ SAR = total field strength in V/m E_{tot} = conductivity in [mho/m] or [Siemens/m] σ = equivalent tissue density in g/cm³

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

 $P_{pwe} = \frac{E_{tot}^2}{3770}$ = 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 2.0 mm Filling Volume About 30 L

Dimensions 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

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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	9	15	1800-	-2000	24	.50
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-butoxyethoxy) ethanol] Triton X-100(ultra pure): Polyethylene glycol mono[4-(1,1,3,3-tetramethylbutyl)phenyl] ether

Table 3.1 Composition of the Tissue Equivalent Matter



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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	DAE4V1	447	Sep.13, 2007	Annual	Sep.13, 2008
SPEAG	DAE3V1	466	Jan.25, 2007	Annual	Jan.25, 2008
SPEAG	E-Field Probe ES3DV3	3085	Nov.19, 2007	Annual	Nov.19, 2008
SPEAG	E-Field Probe ET3DV6	1607	Feb.21, 2007	Annual	Feb.21, 2008
SPEAG	Validation Dipole D450V2	1007	Mar.15, 2007	Annual	Mar.15, 2008
SPEAG	Validation Dipole D835V2	481	May 24, 2007	Annual	May 24, 2008
SPEAG	Validation Dipole D900V2	121	Feb.19, 2007	Annual	Feb.19, 2008
SPEAG	Validation Dipole D1800V2	2d066	May 23, 2007	Annual	May 23, 2008
SPEAG	Validation Dipole D1900V2	5d032	Feb.20, 2007	Annual	Feb.20, 2008
SPEAG	Validation Dipole D2450V2	743	Jan.17, 2007	Annual	Jan.17, 2008
Agilent	Power Meter(F) E4419B	MY40330223	Nov.08, 2007	Annual	Nov.08, 2008
Agilent	Power Sensor(G) 8481	MY41090870	Nov.21, 2007	Annual	Nov.21, 2008
HP	Dielectric Probe Kit 85070C	00721521	N/A	N/A	N/A
HP	Dual Directional Coupler	16072	Nov.09, 2007	Annual	Nov.09, 2008
R&S	Base Station CMU200	838207/050	Nov.14, 2007	Annual	Nov.14, 2008
Tescom	Bluetooth TC-3000	3000A490112	Jan.22, 2007	Annual	Jan.22, 2008
Agilent	Base Station E5515C	GB44400269	Feb.11, 2007	Annual	Feb.11, 2008
HP	Signal Generator E4438C	MY45092381	Feb.07, 2007	Annual	Feb.07, 2008
HP	Network Analyzer 8753ES	JP39240221	Apr.11, 2007	Annual	Apr.11, 2008
EM POWER	Power Amp BBS3Q7ELU	1013-D/C-0127	Apr.17, 2007	Annual	Apr.17, 2008

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.



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 34 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.

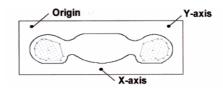


Figure. 4.1 SAR Measurement Point in Area Scan

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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.

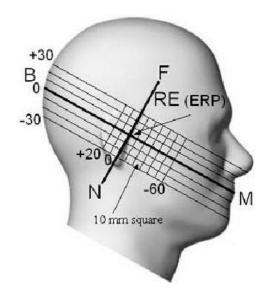


Figure 5.1 Side view of the phantom

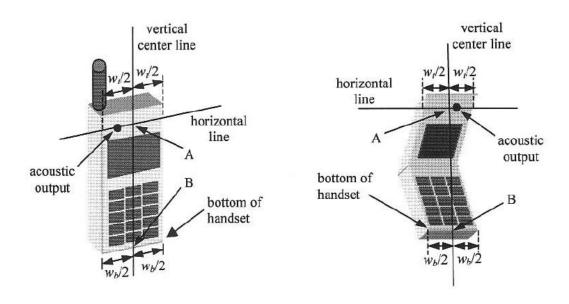


Figure 5.2 Handset vertical and horizontal reference lines

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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.

For this test the EUT is placed into the Body worn accessory and the accessory is positioned against the surface of the phantom in a normal operating position. (2 mm separation phantom thickness)

"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.

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6. MEASUREMENT UNCERTAINTY

Measurement uncertainties in SAR measurements are difficult to quantify due to several variables including biological, physiological, and environmental. However, we estimate the measurement uncertainties in SAR to be less than 15 % - 25 %.

According to ANSI/IEEE C95.3, the overall uncertainties are difficult to assess and will vary with the type of meter and usage situation. However, accuracy's of 1 to \pm 3 dB can be expected in practice, with greater uncertainties in near-field situations and at higher frequencies (shorter wavelengths), or areas where large reflecting objects are present. Under optimum measurement conditions, SAR measurement uncertainties of at least \pm 2 dB can be expected.

According to CENELEC, typical worst-case uncertainty of field measurements is 5 dB. For well-defined modulation characteristics the uncertainty can be reduced to \pm 3 dB.

Error Description	Unicertainty value [%]	Probability Distribution	Divisor	ci	ci^2	Standard Uncertainty [%]	Stand Uncert*2	(Stand Uncert*2) X (ci*2)	Vi & Ver
1. Measurement System		801	,		8 158		801	801 10	
Probe Calibration	5.5	Normal	1.00	1	1	5.50	30.25	30.25	В
Axial Isotropy	4.7	Rectangular	1.73	0.7	0.49	2.71	7.36	3.61	8
Hemispherical Isotropy	9.6	Rectangular	1.73	0.7	0.49	5.54	30.72	15.05	8
Linearity	4.7	Rectangular	1.73	1	1	2.71	7.36	7.36	8
System Detection limits	1.0	Rectangular	1.73	1	1	0.58	0.33	0.33	6
Boundary effect	1.0	Rectangular	1.73	1	1	0.58	0.33	0.33	8
Response time	0.8	Rectangular	1.73	1	1	0.46	0.21	0.21	
RF Ambient conditions	3.0	Rectangular	1.73	1	1	1.73	3.00	3.00	8
Readout Electronics	0.3	Normal	1.00	1	1	0.30	0.09	0.09	
Integration time	2.6	Rectangular	1.73	1	1	1.50	2.25	2.25	8
Probe positioner	0.4	Rectangular	1.73	1	1	0.23	0.05	0.05	
Probe positionering	2.9	Rectangular	1.73	1	1	1.67	2.80	2.80	8
Maximum SAR evaluation	1.0	Rectangular	1.73	1	1	0.58	0.33	0.33	8
2.Test Sample Related					- 3	Sub Tota	ıl	65.69	
Device Positioning	1.8	Normal	1.00	1	1	1.77	3.13	3.13	9
Device Holder	3.6	Normal	1.00	1	1	3.60	12.96	12.96	8
P ower Drift	5.0	Rectangular	1.73	1	1	2.89	8.33	8.33	8
B. Phantom and Setup		SEX.				Sub Totz	ıl.	24.43	
Phantom Uncertainty	4.0	Rectangular	1.73	1	1	2.31	5.33	5.33	8
Liquid conductivity (target)	5.0	Rectangular	1.73	0.5	0.25	2.89	8.33	2.08	
Liquid conductivity (measurement error)	2.5	Normal	1.00	0.5	0.25	2.50	6.25	1.56	
Liquid permittivity (target)	5.0	Rectangular	1.73	0.5	0.25	2.89	8.33	2.08	6
Liquid permittivity (measurement error)	2.5	Normal	1.00	0.5	0.25	2.50	6.25	1.56	
		is a				Sub Tota	il	12.63	
Combined standard uncertainty [%]						10.14		102.74	-

Table 6.1 Breakdown of Errors



7. ANSI/ IEEE C95.1 - 2005 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 gram 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 grams 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).

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8. SYSTEM VERIFICATION

8.1 Tissue Verification

Freq. [MHz]	Date	Liquid	Liquid Temp[°C]	Parameters	Target Value	Measured Value	Deviation [%]	Limit [%]				
835	Dec. 27, 2007	Head	21.3	εr	41.5	40.9	- 1.45	± 5				
633	Dec. 21, 2001	пеац	21.5	σ	0.90	0.895	- 0.56	± 5				
835	Dec. 27, 2007	Pody	21.3	εr	55.2	53.4	- 3.26	± 5				
633	Dec. 21, 2001	Body	21.5	σ	0.97	0.99	+ 2.06	± 5				
1 800	Dec. 26, 2007	Hood	21.3	εr	40.0	39.9	- 0.25	± 5				
1 800	Dec. 20, 2007	Head	пеац	rieau	rieau	ricau	21.0	σ	1.40	1.4	0	± 5
1 800	Dec. 26, 2007	Body	21.3	εr	53.3	54.7	+ 2.63	± 5				
1 600	Dec. 20, 2007	Бойу	21.5	σ	1.52	1.50	- 1.32	± 5				
1 900	Dec. 24, 2007	Head	21.2	εr	40.0	38.7	- 3.25	± 5				
1 900	Dec. 24, 2007	Heau	21.2	σ	1.40	1.45	+ 3.57	± 5				
1 900	Dec. 24, 2007	Body	21.2	εr	53.3	51.9	- 2.63	± 5				
1 900	DGC. 24, 2007	Бойу	21.2	σ	1.52	1.55	+ 1.97	± 5				

8.2 System Validation

Prior to assessment, the system is verified to the \pm 10 % of the specifications at 835 MHz/ 1 800 MHz/ 1 900 MHz by using the system validation kit. (Graphic Plots Attached)

* Input Power: 1 W

Freq. [MHz]	Date	Liquid	Liquid Temp [°C]	SAR Average	Target Value (SPEAG) (mW/g)	Measured Value (mW/g)	Deviation [%]	Limit [%]
835	Dec. 27, 2007	Head	21.3	1 g	9.21	9.33	+ 1.30	± 10
1 800	Dec. 26, 2007	Head	21.3	1 g	36.5	36.0	- 1.37	± 10
1 900	Dec. 24, 2007	Head	21.2	1 g	37.2	37.2	0	± 10

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9. 3G MEASUREMENT PROCEDURES

9.1 Procedures Used To Establish Test Signal

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 evaluating SAR. 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 CDMA2000 1x

These procedures were followed according to FCC "SAR Measurement Procedures for 3G Devices", May 2006.

9.2.1 Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by "SAR Measurement Procedures for 3G Devices", May 2006. Maximum output power is verified on the High, Middle and Low channels according to procedures defined in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. SO55 tests were measured with power control bits in "All Up" condition.

- 1. If the mobile station supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9 600 bps data rate only.
- 2. Under RC1, C.S0011 Table 4.4.5.2-1 (Table 4) parameters were applied.
- 3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH0 and demodulation of RC 3, 4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9 600 bps Fundamental Channel and 9 600 bps SCH0 data rate Channel and 9 600 bps SCH0 data rate.
- 4. Under RC3, C.S0011 Table 4.4.5.2-2(Table 5) was applied.
- 5. FCHs were configured at full rate for maximum SAR with "All Up" power control bits.

Parameters for Max. Power for RC1

Parameter	Units	Value
Îor	dBm/1.23 MHz	-104
Pilot E _c	dB	-7
Traffic E _c	dB	-7.4

Table, 9.1

Parameters for Max. Power for RC3

Parameter	Units	Value	
Îor	dBm/1.23 MHz	-86	
Pilot E _c	dB	-7	
Traffic E _c	dB	-7.4	

Table, 9.2

9.2.2 Head SAR Measurement

SAR for head exposure configurations is measured in RC3 with the DUT configured to transmit at full rate using Loopback Service Option SO55. SAR for RC1 is not required when the maximum average output of each channel is less than ¼ dB higher than that measured in RC3. Otherwise, SAR is measured on the maximum output channel in RC1 using the exposure configuration that results in the highest SAR for that channel in RC3.

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9.2.3 Body SAR Measurement

SAR for body exposure configurations is measured in RC3 with the DUT configured to transmit at full rate on FCH with all other code channels disabled using TDSO / SO32. SAR for multiple code channels (FCH + SCHn) is not required when the maximum average output of each RF channel is less than ¼ dB higher than that measured with FCH only. Otherwise, SAR is measured on the maximum output channel (FCH + SCHn) with FCH at full rate and SCH0 enabled at 9 600 bps using the exposure configuration that results in the highest SAR for that channel with FCH only. When multiple code channels are enabled, the DUT output may shift by more than 0.5 dB and lead to higher SAR drifts and SCH dropouts.

Body SAR in RC1 is not required when the maximum average output of each channel is less than ½ dB higher than that measured in RC3. Otherwise, SAR is measured on the maximum output channel in RC1; with Loopback Service Option SO55, at full rate, using the body exposure configuration that results in the highest SAR for that channel in RC3.

9.2.4 Handsets with EV-DO

For handsets with EVDO capabilities, when the maximum average output of each channel in Rev. 0 is less than ¼ dB higher than that measured in RC3 (1x RTT), body SAR for EVDO is not required. Otherwise, SAR for Rev. 0 is measured on the maximum output channel at 153.6 kbps using the body exposure configuration that results in the highest SAR for that channel in RC3. SAR for Rev. A is not required when the maximum average output of each channel is less than that measured in Rev. 0 or less than ¼ dB higher than that measured in RC3. Otherwise, SAR is measured on the maximum output channel for Rev. A using a Reverse Data Channel payload size of 4 096 bits and a Termination Target of 16 slots defined for Subtype 2 Physical Layer configurations. A Forward Traffic Channel data rate corresponding to the 2-slot version of 307.2 kbps with the ACK Channel transmitting in all slots should be configured in the downlink for both Rev. 0 and Rev. A.

Average Output Power Measurement for FCC ID: 06Y-CDM7126

		<u> </u>				
Band	Channel	SO2	SO2	SO55	SO55	TDSO
Build	G.1.G.1.1.6.	RC1/1	RC3/3	RC1/1	RC3/3	RC3/3
	1013	24.00	24.03	24.00	23.96	24.04
CDMA	384	24.02	24.01	24.04	24.07	24.12
	777	24.02	24.10	24.11	24.11	24.17
PCS	25	24.00	24.08	24.12	24.14	24.19
CDMA	600	23.87	23.87	23.86	23.85	23.92
CDIVIA	1175	23.80	23.81	23.79	23.85	23.90
AVAC	25	24.10	24.11	24.08	24.14	24.21
AWS	425	23.93	23.90	23.90	23.87	23.93
CDMA	875	24.00	24.02	24.06	24.07	24.14



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10. SAR TEST DATA SUMMARY

10.1 Measurement Results (CDMA835 Head SAR Touch)

Frequency		Conducted Power (dBm)		Battery	Phantom	Antenna	SAR(mW/g)
Channel		Begin	End		Position	Туре	
1013 (Low)	CDMA835	23.96	23.91	Standard	Left Ear	Intenna	0.768
384 (Mid)	CDMA835	24.07	24.01	Standard	Left Ear	Intenna	0.707
777 (High)	CDMA835	24.11	23.99	Standard	Left Ear	Intenna	0.714
1013 (Low)	CDMA835	23.96	24.05	Standard	Right Ear	Intenna	0.878
384 (Mid)	CDMA835	24.07	24.26	Standard	Right Ear	Intenna	0.807
777 (High)	CDMA835	24.11	24.23	Standard	Right Ear	Intenna	0.939
777 (High)	CDMA835	24.11	24.11	Standard	Right Ear	Intenna	*0.91
	1013 (Low) 384 (Mid) 777 (High) 1013 (Low) 384 (Mid) 777 (High)	1013 (Low) CDMA835 384 (Mid) CDMA835 777 (High) CDMA835 1013 (Low) CDMA835 384 (Mid) CDMA835 777 (High) CDMA835	Channel Begin 1013 (Low) CDMA835 23.96 384 (Mid) CDMA835 24.07 777 (High) CDMA835 24.11 1013 (Low) CDMA835 23.96 384 (Mid) CDMA835 24.07 777 (High) CDMA835 24.11	Channel Begin End 1013 (Low) CDMA835 23.96 23.91 384 (Mid) CDMA835 24.07 24.01 777 (High) CDMA835 24.11 23.99 1013 (Low) CDMA835 23.96 24.05 384 (Mid) CDMA835 24.07 24.26 777 (High) CDMA835 24.11 24.23	Channel Begin End 1013 (Low) CDMA835 23.96 23.91 Standard 384 (Mid) CDMA835 24.07 24.01 Standard 777 (High) CDMA835 24.11 23.99 Standard 1013 (Low) CDMA835 23.96 24.05 Standard 384 (Mid) CDMA835 24.07 24.26 Standard 777 (High) CDMA835 24.11 24.23 Standard	Channel Begin End Position 1013 (Low) CDMA835 23.96 23.91 Standard Left Ear 384 (Mid) CDMA835 24.07 24.01 Standard Left Ear 777 (High) CDMA835 24.11 23.99 Standard Left Ear 1013 (Low) CDMA835 23.96 24.05 Standard Right Ear 384 (Mid) CDMA835 24.07 24.26 Standard Right Ear 777 (High) CDMA835 24.11 24.23 Standard Right Ear	Channel Begin End Position Type 1013 (Low) CDMA835 23.96 23.91 Standard Left Ear Intenna 384 (Mid) CDMA835 24.07 24.01 Standard Left Ear Intenna 777 (High) CDMA835 24.11 23.99 Standard Left Ear Intenna 1013 (Low) CDMA835 23.96 24.05 Standard Right Ear Intenna 384 (Mid) CDMA835 24.07 24.26 Standard Right Ear Intenna 777 (High) CDMA835 24.11 24.23 Standard Right Ear Intenna

ANSI/ IEEE C95.1 2005 - Safety Limit **Spatial Peak Uncontrolled Exposure/ General Population**

Head 1.6 W/kg (mW/g) Averaged over 1 gram

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]

- All modes of operation were investigated and the worst-case are reported.
- 3 Measured Depth of Simulating Tissue is 15.0 ± 0.2 cm.
- Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type ☐ Extended ☐ Slim Batteries are fully charged for all readings.
- Test Signal Call Mode ☐ Manual Test cord 6
- Head SAR was tested under RC3/SO55. 7
- Highest SAR value measurement in this band repeated with *Bluetooth.



10.2 Measurement Results (CDMA835 Head SAR Tilt)

Fred	quency	Modulation	Conducted Power (dBm)		Battery	Phantom Position	Antenna Type	SAR(mW/g)
MHz	Channel.		Begin	End		1 Goldon	1) 0	
836.52	384 (Mid)	CDMA835	24.07	24.16	Standard	Left Tilt 15°	Intenna	0.328
836.52	384 (Mid)	CDMA835	24.07	24.16	Standard	Right Tilt 15°	Intenna	0.295

ANSI/ IEEE C95.1 2005 – Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Head
1.6 W/kg (mW/g)
Averaged over 1 gram

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 ± 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 Head SAR was tested under RC3/SO55.
- 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).

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10.3 Measurement Results (AWS1700 Head SAR Touch)

Fred	quency	Modulation Conducted Power (dBm) Battery		Phantom	Antenna	SAR(mW/g)		
MHz	Channel.		Begin	End		Position	Туре	
1 711.25	25 (Low)	AWS	24.14	23.96	Standard	Left Ear	Intenna	0.524
1 731.25	425 (Mid)	AWS	23.87	23.83	Standard	Left Ear	Intenna	0.386
1 753.75	875 (High)	AWS	24.07	23.89	Standard	Left Ear	Intenna	0.538
1 711.25	25 (Low)	AWS	24.14	24.07	Standard	Right Ear	Intenna	0.575
1 731.25	425 (Mid)	AWS	23.87	23.75	Standard	Right Ear	Intenna	0.403
1 753.75	875 (High)	AWS	24.07	24.05	Standard	Right Ear	Intenna	0.551
1 711.25	25 (Low)	AWS	24.14	24.18	Standard	Right Ear	Intenna	*0.557
	ANSI/ IEE	E C95.1 20			Head			

Spatial Peak Uncontrolled Exposure/ General Population

1.6 W/kg (mW/g)
Averaged over 1 gram

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].

- All modes of operation were investigated and the worst-case are reported.
- Measured Depth of Simulating Tissue is 15.0 ± 0.2 cm. 3
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 **Battery Type** ☐ Extended ☐ Slim

Batteries are fully charged for all readings.

- 6 Test Signal Call Mode ☐ Manual Test cord
- Highest SAR value measurement in this band repeated with *Bluetooth.



10.4 Measurement Results (AWS1700 Head SAR Tilt)

Fred	quency	Modulation		ed Power Bm)	Battery	Phantom Position	Antenna Type	SAR(mW/g)
MHz	Channel.		Begin	End		1 OSILIOI1	Турс	
1 731.25	425 (Mid)	AWS	23.87	23.71	Standard	Left Tilt 15°	Intenna	0.183
1 731.25	425 (Mid)	AWS	23.87	23.84	Standard	Right Tilt 15°	Intenna	0.200

ANSI/ IEEE C95.1 2005 – Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Head
1.6 W/kg (mW/g)

Averaged over 1 gram

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 ± 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
- 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).

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10.5 Measurement Results (PCS1900 Head SAR Touch)

Fred	Frequency		Conducted Pow Modulation (dBm)		Battery	Phantom Position	Antenna	SAR(mW/g)
MHz	Channel.		Begin	End		1 Osition	Туре	
1 851.25	25 (Low)	PCS1900	24.14	24.20	Standard	Left Ear	Intenna	1.13
1 880.00	600 (Mid)	PCS1900	23.44	23.61	Standard	Left Ear	Intenna	0.926
1 908.75	1175 (High)	PCS1900	23.85	23.82	Standard	Left Ear	Intenna	0.999
1 851.25	25 (Low)	PCS1900	24.14	24.18	Standard	Right Ear	Intenna	0.945
1 880.00	600 (Mid)	PCS1900	23.44	23.28	Standard	Right Ear	Intenna	0.799
1 908.75	1175 (High)	PCS1900	23.85	23.97	Standard	Right Ear	Intenna	0.869
1 851.25	25 (Low)	PCS1900	24.14	24.18	Standard	Left Ear	Intenna	*1.12

ANSI/ IEEE C95.1 2005 – Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Head
1.6 W/kg (mW/g)
Averaged over 1 gram

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 ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.
- 5 Battery Type $\ oxindet$ Standard $\ oxindet$ Extended $\ oxindet$ Slim
 - Batteries are fully charged for all readings.
- 6 Test Signal Call Mode ☐ Manual Test cord ☒ Base Station Simulator
- 7 Head SAR was tested under RC3/SO55.
- 8 Highest SAR value measurement in this band repeated with *Bluetooth.



10.6 Measurement Results (PCS1900 Head SAR Tilt)

Fred	quency	nency Modulation		Conducted Power (dBm)		Phantom Position	Antenna Type	SAR(mW/g)
MHz	Channel.		Begin	End		1 OSILIOII	Турс	
1 880.00	600 (Mid)	PCS1900	23.44	23.35	Standard	Left Tilt 15°	Intenna	0.284
1 880.00	600 (Mid)	PCS1900	23.44	23.56	Standard	Right Tilt 15°	Intenna	0.225

ANSI/ IEEE C95.1 2005 – Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Head
1.6 W/kg (mW/g)
Averaged over 1 gram

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 ± 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 Head SAR was tested under RC3/SO55.
- 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).

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10.7 Measurement Results (CDMA835 Body SAR)

Fred	quency Conducted Power (dBm) Battery		Phantom	Antenna	SAR(mW/g)			
MHz	Channel.		Begin	End		Position	Туре	
836.52	384 (Mid)	CDMA835	24.12	24.01	Standard	with Holster	Intenna	0.561
836.52	384 (Mid)	CDMA835	24.12	24.14	Standard	with Holster	Intenna	*0.545
836.52	384 (Mid)	CDMA835	24.12	24.01	Standard	with Holster	Intenna	**0.281

ANSI/ IEEE C95.1 2005 – Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg (mW/g)
Averaged over 1 gram

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 ± 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 Body SAR was tested under RC3/SO32.
- 11 Highest SAR value measurement in this band repeated with *Bluetooth/**Front



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10.8 Measurement Results (AWS1700 Body SAR)

Fred	quency	Modulation (dBm)		Battery	Phantom	Antenna	SAR(mW/g)	
MHz	Channel.		Begin	End		Position	Туре	
1 731.25	425 (Mid)	AWS	23.93	23.90	Standard	with Holster	Intenna	0.317
1 731.25	425 (Mid)	AWS	23.93	23.91	Standard	with Holster	Intenna	*0.308
1 731.25	425 (Mid)	AWS	23.93	23.83	Standard	with Holster	Intenna	**0.145

ANSI/ IEEE C95.1 2005 - Safety Limit **Spatial Peak Uncontrolled Exposure/ General Population**

Body 1.6 W/kg (mW/g) Averaged over 1 gram

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].
- All modes of operation were investigated and the worst-case are reported. 2
- Measured Depth of Simulating Tissue is 15.0 ± 0.2 cm.
- Tissue parameters and temperatures are listed on the SAR plot. 4
- ☐ Extended 5 **Battery Type** Standard ☐ Slim Batteries are fully charged for all readings.
- 6 ☐ Manual Test cord Test Signal Call Mode
- Both side of the phone were tested and the worst-case side is reported. 7
- HEADSET was connected. 8
- **Test Configuration** ☐ Without Holster
- 10 Body SAR was tested under RC3/SO32.
- Highest SAR value measurement in this band repeated with *Bluetooth/**Front
- 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).

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10.9 Measurement Results (PCS1900 Body SAR)

Freq	uency	Modulation Conducted Power (dBm)		Battery	Phantom Position	Antenna	SAR(mW/g)	
MHz	Channel.		Begin	End		FOSITION	Туре	
1 880.00	600 (Mid)	PCS1900	23.92	23.90	Standard	with Holster	Intenna	0.259
1 880.00	600 (Mid)	PCS1900	23.92	23.86	Standard	with Holster	Intenna	*0.256
1 880.00	600 (Mid)	PCS1900	23.92	23.89	Standard	with Holster	Intenna	**0.228

ANSI/ IEEE C95.1 2005 – Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg (mW/g)
Averaged over 1 gram

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 ± 0.2 cm.
- 4 Tissue parameters and temperatures are listed on the SAR plot.

7	rissue parameters and temperatures are listed on the SAIX 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 we	re tested and the worst-ca	se side is reported.	

- 8 HEADSET was connected.
- 9 Test Configuration

 ☐ With Holster ☐ Without Holster
- 10 Body SAR was tested under RC3/SO32.
- 11 Highest SAR value measurement in this band repeated with *Bluetooth/**Front
- 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).

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11. CONCLUSION

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/IEEE C95.1 2005.

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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Attachment 1. - SAR Test Plots



Test Laboratory: HCT CO., LTD.

EUT Type: Tri - Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.27, 2007

DUT: CDM7126C, CDM7126M; Type: Folder; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 824.7 MHz;Duty Cycle: 1:1 Medium parameters used: f=825 MHz; $\sigma=0.885$ mho/m; $\epsilon_r=40.9$; $\rho=1000$ kg/m³

Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(6.1, 6.1, 6.1); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 835/900 Phamtom; Type: SAM

Left touch 1013/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.817 mW/g

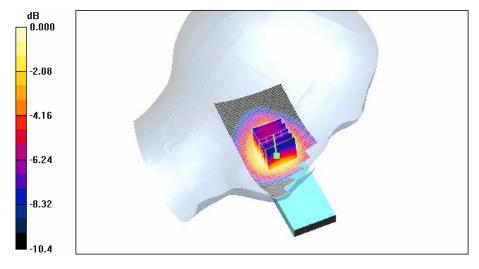
Left touch 1013/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.0 V/m; Power Drift = -0.048 dB

Peak SAR (extrapolated) = 0.962 W/kg

SAR(1 g) = 0.768 mW/g; SAR(10 g) = 0.551 mW/g

Maximum value of SAR (measured) = 0.808 mW/g



0 dB = 0.808 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.27, 2007

DUT: CDM7126C, CDM7126M; Type: Folder; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 836.52 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.52 MHz; $\sigma = 0.896$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³ Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(6.1, 6.1, 6.1); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 835/900 Phamtom; Type: SAM

Left touch 384/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.754 mW/g

Left touch 384/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

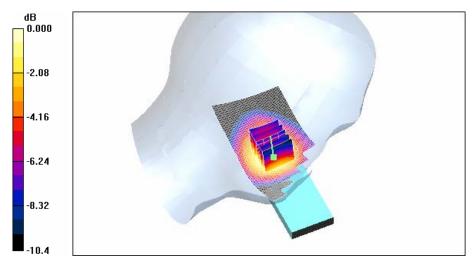
Reference Value = 30.0 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 0.890 W/kg

SAR(1 g) = 0.707 mW/g; SAR(10 g) = 0.503 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.752 mW/g



0 dB = 0.752 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri - Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.27, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 848,31 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 848.31 MHz; $\sigma = 0.904$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³ Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(6.1, 6.1, 6.1); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 835/900 Phamtom; Type: SAM

Left touch 777/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.772 mW/g

Left touch 777/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

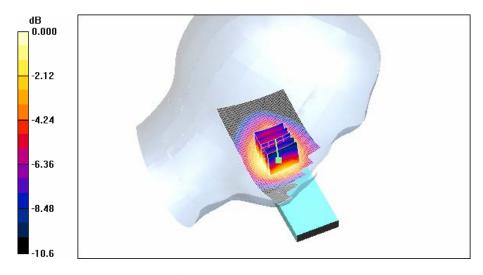
Reference Value = 29.9 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.895 W/kg

SAR(1 g) = 0.714 mW/g; SAR(10 g) = 0.510 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.763 mW/g



0 dB = 0.763 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.27, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 824.7 MHz;Duty Cycle: 1:1 Medium parameters used: f = 825 MHz; σ = 0.885 mho/m; ϵ_r = 40.9; ρ = 1000 kg/m³

Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(6.1, 6.1, 6.1); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 835/900 Phamtom; Type: SAM

$\label{local_continuity} \textbf{Right touch 1013/Area Scan (51x101x1):} \ \ \text{Measurement grid: } \ \ \text{dx=15mm, dy=15mm}$

Maximum value of SAR (interpolated) = 0.936 mW/g

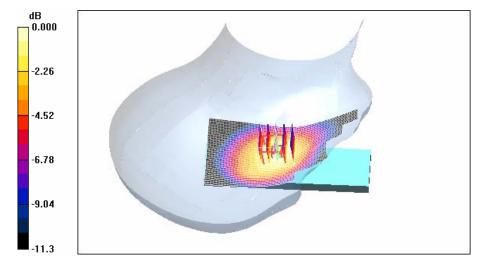
Right touch 1013/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.0 V/m; Power Drift = 0.089 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.878 mW/g; SAR(10 g) = 0.600 mW/g

Maximum value of SAR (measured) = 0.935 mW/g



0 dB = 0.935 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.27, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 836.52 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.52 MHz; $\sigma = 0.896$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³ Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(6.1, 6.1, 6.1); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 835/900 Phamtom; Type: SAM

Right touch 384/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.861 mW/g

Right touch 384/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

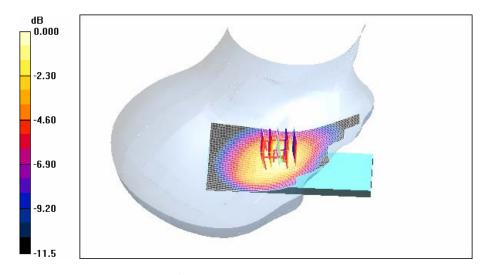
Reference Value = 30.0 V/m; Power Drift = 0.187 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.807 mW/g; SAR(10 g) = 0.556 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.854 mW/g



0 dB = 0.854 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.27, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 848.31 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 848.31 MHz; $\sigma = 0.904$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³ Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(6.1, 6.1, 6.1); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 835/900 Phamtom; Type: SAM

Right touch 777/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.910 mW/g

Right touch 777/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

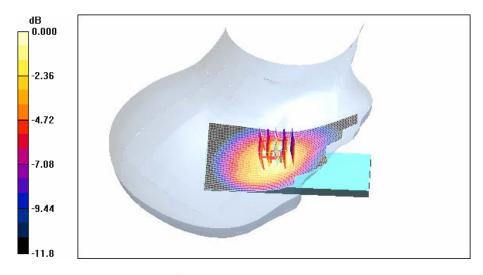
Reference Value = 31.3 V/m; Power Drift = 0.122 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.939 mW/g; SAR(10 g) = 0.639 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.988 mW/g



0 dB = 0.988 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 848.31 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 848.31 MHz; $\sigma = 0.904 \text{ mho/m}$; $\epsilon_r = 40.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(6.1, 6.1, 6.1); Calibrated: 2007-11-19

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

- Electronics: DAE3 Sn466; Calibrated: 2007-01-25

- Phantom: 835/900 Phamtom; Type: SAM

Right touch 777/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.991 mW/g

Right touch 777/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

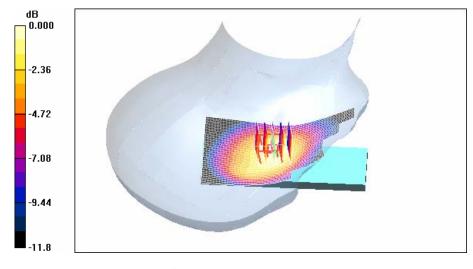
Reference Value = 31.7 V/m; Power Drift = -0.001 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.910 mW/g; SAR(10 g) = 0.619 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.960 mW/g



0 dB = 0.960 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.27, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 836.52 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f=836.52 MHz; $\sigma=0.896$ mho/m; $\epsilon_r=40.9$; $\rho=1000$ kg/m³ Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(6.1, 6.1, 6.1); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 835/900 Phamtom; Type: SAM

Left tilt 384/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.344 mW/g

Left tilt 384/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

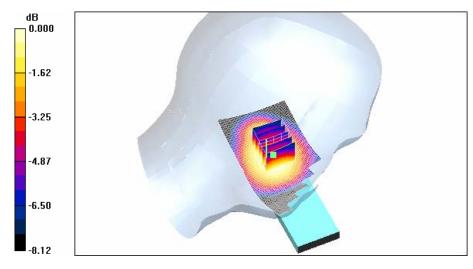
Reference Value = 18.4 V/m; Power Drift = 0.085 dB

Peak SAR (extrapolated) = 0.364 W/kg

SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.257 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.340 mW/g



0 dB = 0.340 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.27, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 836.52 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.52 MHz; $\sigma = 0.896$ mho/m; $\epsilon_r = 40.9$; $\rho = 1000$ kg/m³ Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(6.1, 6.1, 6.1); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 835/900 Phamtom; Type: SAM

Right tilt 384/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.318 mW/g

Right tilt 384/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

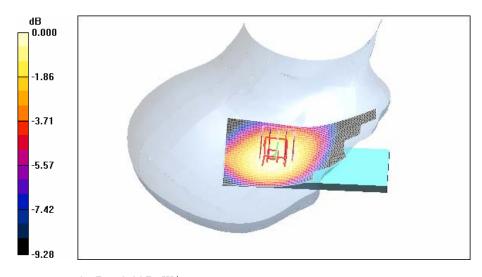
Reference Value = 16.0 V/m; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 0.339 W/kg

SAR(1 g) = 0.295 mW/g; SAR(10 g) = 0.229 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.307 mW/g



0 dB = 0.307 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.26, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: AWS 1700 MHz FCC; Frequency: 1711.25 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1711.25 MHz; $\sigma = 1.32$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³ Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Left Touch 25/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.563 mW/g

Left Touch 25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

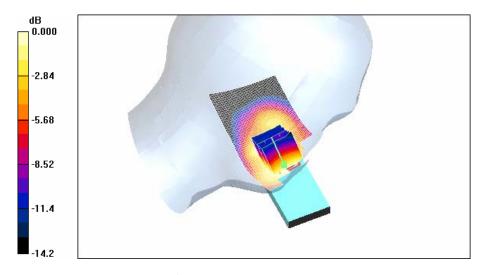
Reference Value = 16.0 V/m; Power Drift = 0.171 dB

Peak SAR (extrapolated) = 0.743 W/kg

SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.349 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.562 mW/g



0 dB = 0.562 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.26, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: AWS 1700 MHz FCC; Frequency: 1731.25 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1731.25 MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³ Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Left Touch 425/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.425 mW/g

Left Touch 425/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

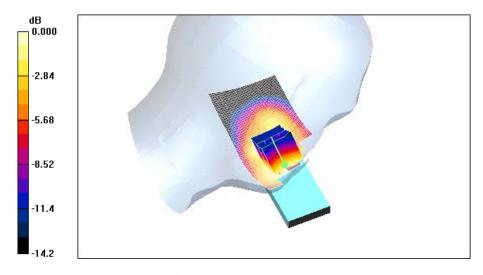
Reference Value = 14.2 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.553 W/kg

SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.256 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.414 mW/g



0 dB = 0.414 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.26, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: AWS 1700 MHz FCC; Frequency: 1753.75 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1753.75 MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³ Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Left Touch 875/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.614 mW/g

Left Touch 875/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

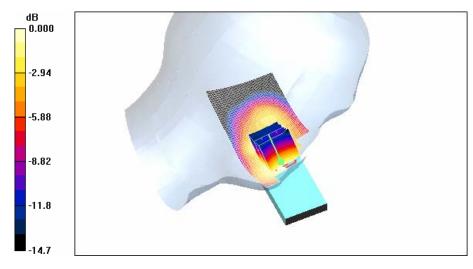
Reference Value = 16.1 V/m; Power Drift = 0.189 dB

Peak SAR (extrapolated) = 0.749 W/kg

SAR(1 g) = 0.538 mW/g; SAR(10 g) = 0.353 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.578 mW/g



0 dB = 0.578 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.26, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: AWS 1700 MHz FCC; Frequency: 1711.25 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1711.25 MHz; $\sigma = 1.32$ mho/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³ Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Right Touch 25/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.608 mW/g

Right Touch 25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

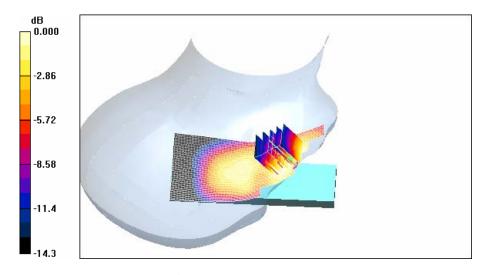
Reference Value = 19.4 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.373 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.611 mW/g



0 dB = 0.611 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.26, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: AWS 1700 MHz FCC; Frequency: 1731.25 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1731.25 MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³ Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Right Touch 425/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.430 mW/g

Right Touch 425/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

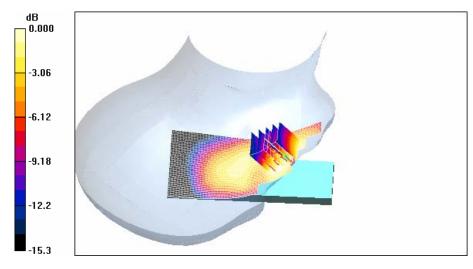
Reference Value = 15.3 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.261 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.432 mW/g



0 dB = 0.432 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.26, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: AWS 1700 MHz FCC; Frequency: 1753.75 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1753.75 MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³ Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Right Touch 875/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.572 mW/g

Right Touch 875/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

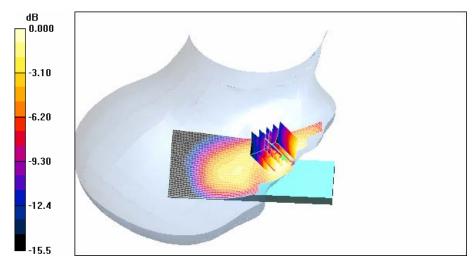
Reference Value = 17.3 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.806 W/kg

SAR(1 g) = 0.551 mW/g; SAR(10 g) = 0.352 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.595 mW/g



0 dB = 0.595 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: AWS 1700 MHz FCC; Frequency: 1711.25 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1711.25 MHz; $\sigma = 1.32 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19

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

- Electronics: DAE3 Sn466; Calibrated: 2007-01-25

- Phantom: 1800/1900 Phantom; Type: SAM

Right Touch 25/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.597 mW/g

Right Touch 25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

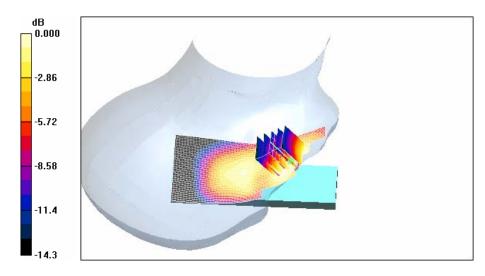
Reference Value = 19.4 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 0.795 W/kg

SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.362 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.597 mW/g



0 dB = 0.597 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.26, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: AWS 1700 MHz FCC; Frequency: 1731.25 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1731.25 MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³ Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Left Tilt 425/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.202 mW/g

Left Tilt 425/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

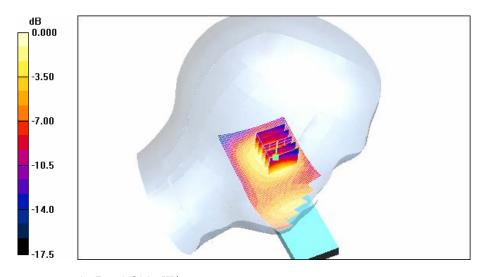
Reference Value = 5.88 V/m; Power Drift = -0.152 dB

Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.183 mW/g; SAR(10 g) = 0.114 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.200 mW/g



0 dB = 0.200 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.26, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: AWS 1700 MHz FCC; Frequency: 1731.25 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1731.25 MHz; $\sigma = 1.34$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³ Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Right Tilt 425/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.211 mW/g

Right Tilt 425/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

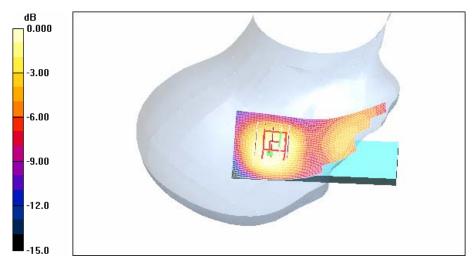
Reference Value = 6.09 V/m; Power Drift = -0.027 dB

Peak SAR (extrapolated) = 0.289 W/kg

SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.130 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.214 mW/g



0 dB = 0.214 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.2 $^{\circ}$ C Ambient Temperature: 21.4 $^{\circ}$ C Test Date: Dec.24, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: PCS1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1851.25 MHz; $\sigma = 1.38 \text{ mho/m}$; $\varepsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

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DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Left touch 25/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.27 mW/g

Left touch 25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

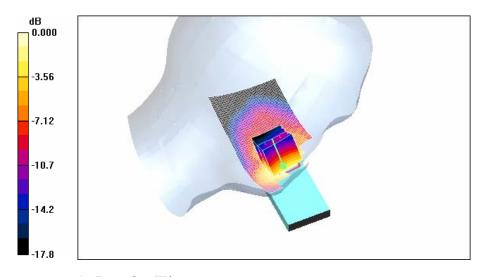
Reference Value = 12.9 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.712 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.21 mW/g



0 dB = 1.21 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.2 $^{\circ}$ C Ambient Temperature: 21.4 $^{\circ}$ C Test Date: Dec.24, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ϵ_r = 38.8; ρ = 1000 kg/m³

Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Left touch 600/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.02 mW/g

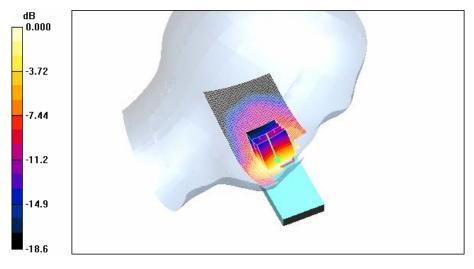
Left touch 600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.96 V/m; Power Drift = 0.172 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.926 mW/g; SAR(10 g) = 0.580 mW/g

Maximum value of SAR (measured) = 1.00 mW/g



0 dB = 1.00 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.2 $^{\circ}$ C Ambient Temperature: 21.4 $^{\circ}$ C Test Date: Dec.24, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: PCS1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1908.75 MHz; σ = 1.46 mho/m; ϵ_r = 38.7; ρ = 1000 kg/m³

Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Left touch 1175/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.09 mW/g

Left touch 1175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

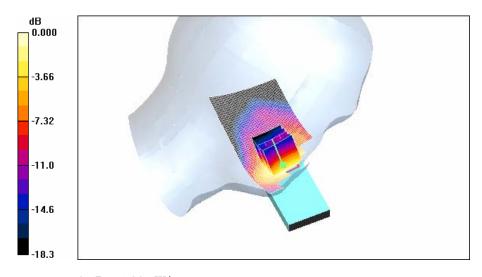
Reference Value = 9.10 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.999 mW/g; SAR(10 g) = 0.614 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.08 mW/g



0 dB = 1.08 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.2 $^{\circ}$ C Ambient Temperature: 21.4 $^{\circ}$ C Test Date: Dec.24, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: PCS1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1851.25 MHz; σ = 1.38 mho/m; ε_r = 39; ρ = 1000 kg/m³

Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Right touch 25/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.05 mW/g

Right touch 25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

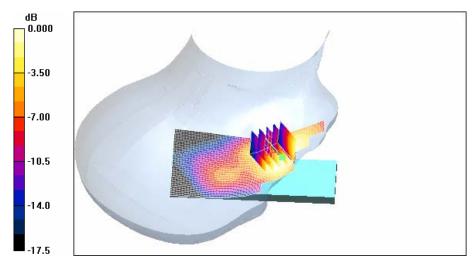
Reference Value = 12.1 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.945 mW/g; SAR(10 g) = 0.583 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.01 mW/g



0 dB = 1.01 mW/g



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Test Laboratory: HCT CO., LTD.

EUT Type: Tri - Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.2 ℃ Ambient Temperature: 21.4 ℃ Test Date: Dec.24, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ϵ_r = 38.8; ρ = 1000 kg/m³ Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Right touch 600/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.832 mW/g

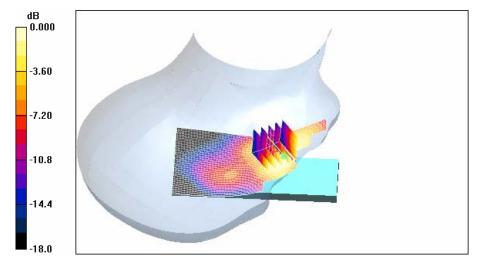
Right touch 600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.98 V/m; Power Drift = -0.161 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.799 mW/g; SAR(10 g) = 0.491 mW/g

Maximum value of SAR (measured) = 0.865 mW/g



0 dB = 0.865 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.2 $^{\circ}$ C Ambient Temperature: 21.4 $^{\circ}$ C Test Date: Dec.24, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: PCS1900; Frequency: 1908.75 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1908.75 MHz; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Right touch 1175/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.943 mW/g

Right touch 1175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

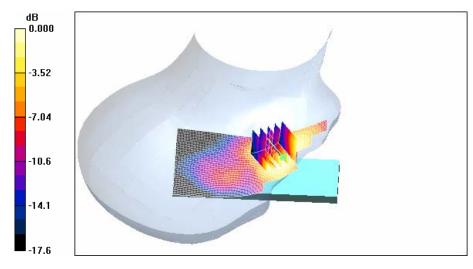
Reference Value = 9.75 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.869 mW/g; SAR(10 g) = 0.529 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.931 mW/g



0 dB = 0.931 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: PCS1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1851.25 MHz; $\sigma = 1.38 \text{ mho/m}$; $\varepsilon_r = 39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19

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

- Electronics: DAE3 Sn466; Calibrated: 2007-01-25

- Phantom: 1800/1900 Phantom; Type: SAM

Left touch 25/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.27 mW/g

Left touch 25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

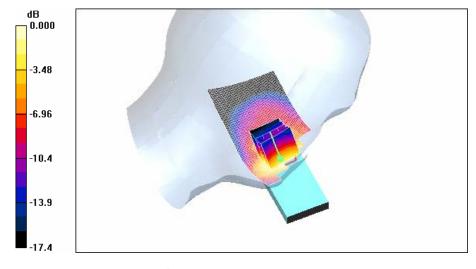
Reference Value = 11.5 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.698 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.20 mW/g



0 dB = 1.20 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.2 $^{\circ}$ C Ambient Temperature: 21.4 $^{\circ}$ C Test Date: Dec.24, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ϵ_r = 38.8; ρ = 1000 kg/m³

Phantom section: Left Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Left tilt 600/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.321 mW/g

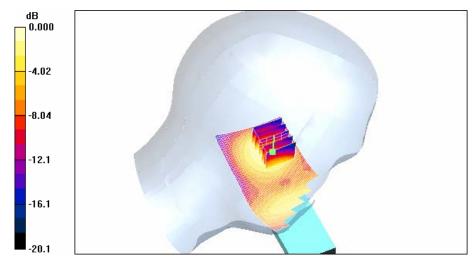
Left tilt 600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.11 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 0.460 W/kg

SAR(1 g) = 0.284 mW/g; SAR(10 g) = 0.165 mW/g

Maximum value of SAR (measured) = 0.313 mW/g



0 dB = 0.313 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.2 $^{\circ}$ C Ambient Temperature: 21.4 $^{\circ}$ C Test Date: Dec.24, 2007

DUT: CDM7126C,CDM7126M;Type: Folder; Serial: #1

Communication System: PCS1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1880 MHz; σ = 1.41 mho/m; ϵ_r = 38.8; ρ = 1000 kg/m³

Phantom section: Right Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

Build 176

DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(5.04, 5.04, 5.04); Calibrated: 2007-11-19

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 1800/1900 Phantom; Type: SAM

Right tilt 600/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

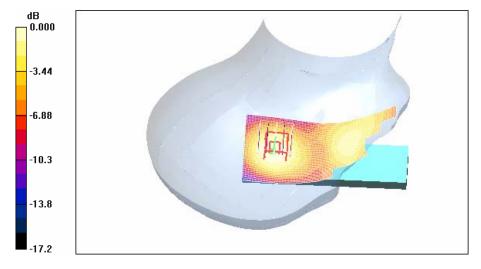
Right tilt 600/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.11 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 0.356 W/kg

SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.135 mW/g

Maximum value of SAR (interpolated) = 0.245 mW/gMaximum value of SAR (measured) = 0.243 mW/g



0 dB = 0.243 mW/g



Test Laboratory: HCT CO., LTD.

EUT Type: Tri – Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 $^{\circ}$ C Ambient Temperature: 21.5 $^{\circ}$ C Test Date: Dec.27, 2007

DUT: CDM7126C,CDM7126M;Type: Folder body; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 836.52 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.52 MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³ Phantom section: Flat Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ES3DV3 SN3085; ConvF(5.7, 5.7, 5.7); Calibrated: 2007-11-19
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn466; Calibrated: 2007-01-25
- Phantom: 835/900 Phamtom; Type: SAM

CDMA Body 384/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.588 mW/g

CDMA Body 384/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

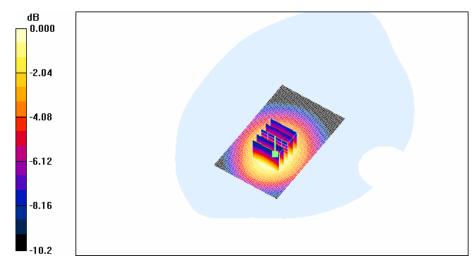
Reference Value = 12.8 V/m; Power Drift = -0.185 dB

Peak SAR (extrapolated) = 0.745 W/kg

SAR(1 g) = 0.561 mW/g; SAR(10 g) = 0.396 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.599 mW/g



0 dB = 0.599 mW/g



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Test Laboratory: HCT CO., LTD.

EUT Type: Tri - Band CDMA Phone with Bluetooth(CDMA / PCS CDMA / AWS CDMA)

Liquid Temperature: 21.3 ℃ Ambient Temperature: 21.5 ℃ Test Date: Dec.27, 2007 Option Bluetooth

DUT: CDM7126C,CDM7126M;Type: Folder body; Serial: #1

Communication System: CDMA 835MHz FCC; Frequency: 836.52 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 836.52 MHz; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8

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DASY4 Configuration:

- Probe: ES3DV3 - SN3085; ConvF(5.7, 5.7, 5.7); Calibrated: 2007-11-19

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

- Electronics: DAE3 Sn466; Calibrated: 2007-01-25

- Phantom: 835/900 Phamtom; Type: SAM

CDMA Body 384/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.577 mW/g

CDMA Body 384/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

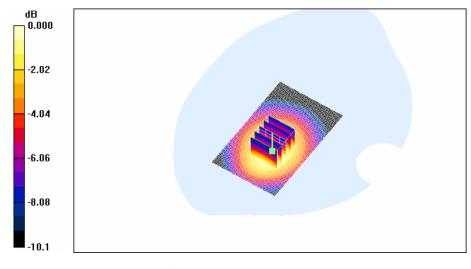
Reference Value = 12.3 V/m; Power Drift = 0.043 dB

Peak SAR (extrapolated) = 0.726 W/kg

SAR(1 g) = 0.545 mW/g; SAR(10 g) = 0.385 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.582 mW/g



0 dB = 0.582 mW/g