Testing Laboratory
1190

Specific Absorption Rate (SAR) Test Report

for

HIGH TECH COMPUTER CORP.

on the

POCKET PC PHONE

Report No.	:	FA731703-1-2-05
Model Name	:	ATHE100
FCC ID	:	NM8ATHE100
Date of Testing	:	Mar. 30 and Apr. 12 and 18, 2007
Date of Report	:	Jun. 21, 2007
Date of Review	:	Jun. 21, 2007

- The test results refer exclusively to the presented test model/sample only.
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- Report Version: Rev. 05.

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1. Statement of Compliance

The Specific Absorption Rate (SAR) maximum results found during testing for the **HIGH TECH COMPUTER CORP. POCKET PC PHONE ATHE100** are as follows (with expanded uncertainty 20.6%):

DUT Configuration		GSM850 (W/kg)	PCS1900 (W/kg)	WCDMA Band 5 (W/kg)	WCDMA Band 2 (W/kg)	WLAN 2.4GHz body (W/kg)
With VT Camera	Body	0.38	0.382	0.267	0.482	0.088
Without VT Camera	Body	0.427	0.444	0.261	0.52	0.073

The co-location of GSM/GPRS/EDGE, WCDMA/HSDPA, Bluetooth and WLAN were also checked. They are in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C (Edition 01-01).

Approved by

Roy Wu
Deputy Manager

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2. Administration Data

2.1 Testing Laboratory

Company Name : Sporton International Inc.
Department : Antenna Design/SAR
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Telephone Number : 886-3-327-3456
Fax Number : 886-3-328-4978

2.2 Detail of Applicant

Company Name : HIGH TECH COMPUTER CORP.
Address : No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, R.O.C.
Telephone Number : 886-2-89124138
Contact Person : jm_huang@htc.com

2.3 Detail of Manufacturer

Company Name : HIGH TECH COMPUTER CORP.
Address : No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, R.O.C.

2.4 Application Detail

Date of reception of application: Mar. 17, 2007
Start of test : Mar. 30, 2007
End of test : Apr. 18, 2007

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3. General Information

3.1 Description of Device Under Test (DUT)

DUT Type :	POCKET PC PHONE
Model Name :	ATHE100
FCC ID :	NM8ATHE100
Tx Frequency :	GSM850 : 824 ~ 849 MHz PCS1900 : 1850 ~ 1910 MHz WCDMA Band 5 : 824 ~ 849 MHz WCDMA Band 2 : 1850 ~ 1910 MHz Bluetooth : 2400 ~ 2483.5 MHz WLAN : 2400 ~ 2483.5 MHz
Rx Frequency :	GSM850 : 869 ~ 894 MHz PCS1900 : 1930 ~ 1990 MHz WCDMA Band 5 : 869 ~ 894 MHz WCDMA Band 2 : 1930 ~ 1990 MHz Bluetooth : 2400 ~ 2483.5 MHz WLAN : 2400 ~ 2483.5 MHz
Antenna Type :	Fixed Internal
Type of Antenna Connector :	N/A
Maximum Output Power :	GSM850(GSM) : 33.74 dBm GSM850(EDGE) : 26.89 dBm PCS1900(GSM) : 30.88 dBm PCS1900(EDGE) : 26.05 dBm WCDMA Band 5 : 23.94 dBm (12.2Kbps) / 23.92 dBm (64Kbps) / 23.96 dBm (144Kbps) / 23.92 dBm (384Kbps) WCDMA Band 5 (HSDPA) : 23.80 dBm (12.2 Kbps) WCDMA Band 2 : 23.63 dBm (12.2Kbps) / 23.59 dBm (64Kbps) / 23.68 dBm (144Kbps) / 23.47 dBm (384Kbps) WCDMA Band 2 (HSDPA) : 23.41 dBm (12.2Kbps) Bluetooth : 1.54 dBm 802.11b : 15.78 dBm ; 802.11g : 21.23 dBm
HW Version :	A01
SW Version :	5.1.461
Type of Modulation :	GSM850 / PCS1900 : GMSK EDGE : 8PSK WCDMA / HSDPA : QPSK Bluetooth : GFSK 802.11b / 802.11g : DSSS / OFDM
DUT Stage :	Identical Prototype
Application Type :	Certification
Accessory :	Battery : Sanyo, ATHE160 Earphone : Cotron, CHM-60ST V07004

Remark: 1. The ATHE100 have two models. One is with VT camera and the other is without it. Both models are with main cameras. ATHE100 is without a receiver so head SAR is not measured.
2. It's no necessary SAR test for the carrying case, because it can't be used on the belt or human body.

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3.2 Product Photo

Please refer to appendix E.

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3.3 Applied Standards:

The Specific Absorption Rate (SAR) testing specification, method and procedure for this POCKET PC PHONE is in accordance with the following standards:

47 CFR Part 2 (2.1093),
IEEE C95.1-1999,
IEEE C95.3-2002,
IEEE P1528-2003, and
OET Bulletin 65 Supplement C (Edition 01-01)

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3.4 Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

3.5 Test Conditions:

3.5.1 Ambient Condition

Band	GSM850	PCS1900	WCDMA Band 5	WCDMA Band 2	MSL_2450	GSM850	PCS1900	WCDMA Band 5	WCDMA Band 2	MSL_2450
DUT Configuration	With VT Camera					Without VT Camera				
Ambient Temperature (°C)	20-24℃									
Tissue simulating liquid temperature (°C)	21.0℃	21.2℃	21.0℃	21.2℃	22.0℃	22.1℃	21.7℃	22.1℃	21.7℃	21.9℃
Humidity (%)	<60 %									

3.5.2 Test Configuration

The device was controlled by using a base station emulator R&S CMU200. Communication between the device and the emulator was established by air link. The distance between the DUT and the antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of DUT.

The DUT was set from the emulator to radiate maximum output power during all testings.

Measurements were performed on the lowest, middle, and highest channels for each testing position.

For GPRS/EDGE link mode in body SAR, the crest factor is 4 because EUT is GPRS/EDGE class 10 device. For WCDMA/HSDPA link mode, the crest factor is 1.

The data rates for SAR testing are 11Mbps for 802.11b and 6Mbps for 802.11g. Engineering testing software installed on the EUT can provide continuous transmitting RF signal. This RF signal utilized in SAR measurement has almost 100% duty cycle and its crest factor is 1. The measurements were performed on the lowest, middle, and highest channel, i.e. channel 1, channel 6, and channel 11 for each testing position.

However, measurements were performed only on the middle channel if the SAR is below 3 dB of limit.

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4. Specific Absorption Rate (SAR)

4.1 Introduction

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

4.2 SAR Definition

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

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

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

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

$$\mathbf{SAR} = C\frac{\delta T}{\delta t}$$

, where C is the specific head capacity, δT is the temperature rise and δt the exposure duration,

or related to the electrical field in the tissue by

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

, where σ is the conductivity of the tissue, ρ is the mass density of the tissue and $\boldsymbol{E}$ is the rms electrical field strength.

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

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5. SAR Measurement Setup

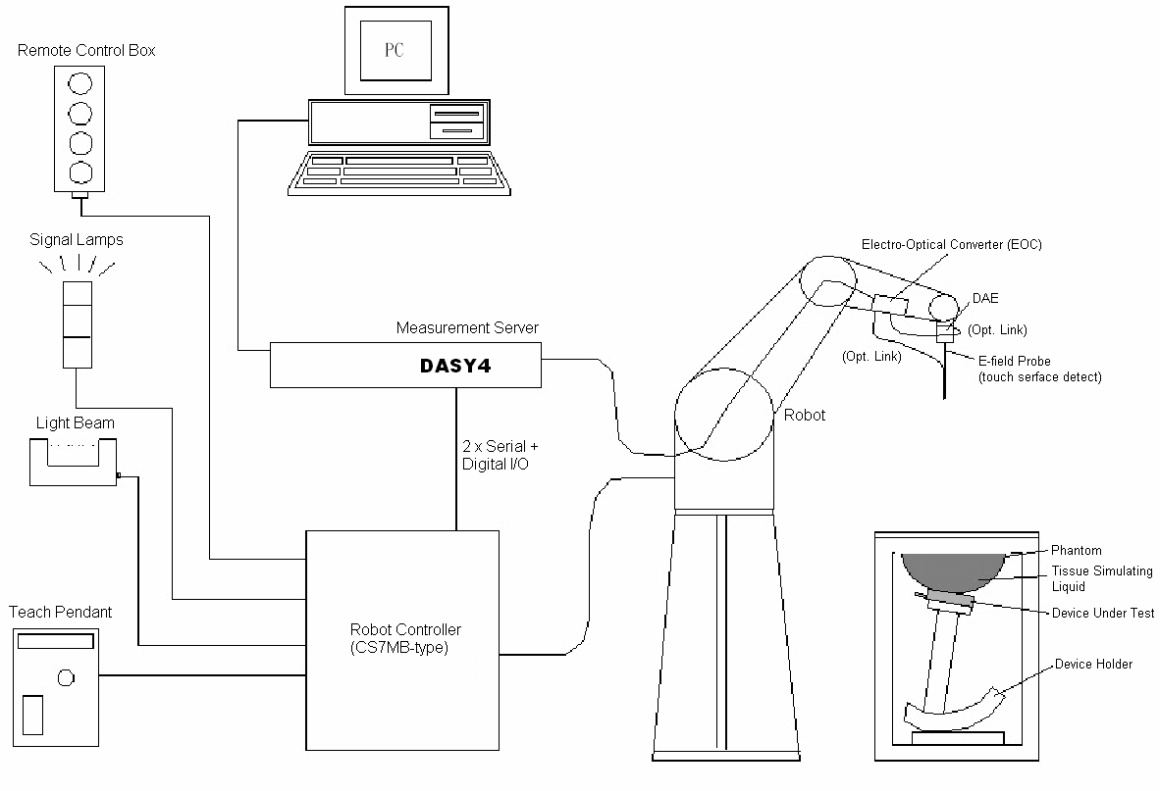

Fig. 5.1 DASY4 system

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The DASY4 system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (ECO) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY4 software
- Remove control with teach pendant and additional circuitry for robot safety such as warming lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

Some of the components are described in details in the following sub-sections.

5.1 DASY4 E-Field Probe System

The SAR measurement is conducted with the dosimetric probe ET3DV6 (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

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5.1.1 ET3DV6 E-Field Probe Specification

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents)
Calibration	Simulating tissue at frequencies of 900MHz, 1.8GHz and 2.45GHz for brain and muscle (accuracy ±8%)
Frequency	10 MHz to > 3 GHz
Directivity	± 0.2 dB in brain tissue (rotation around probe axis) ± 0.4 dB in brain tissue (rotation perpendicular to probe axis)
Dynamic Range	5 μ W/g to > 100mW/g; Linearity: ±0.2dB
Surface Detection	± 0.2 mm repeatability in air and clear liquids on reflecting surface
Dimensions	Overall length: 330mm Tip length: 16mm Body diameter: 12mm Tip diameter: 6.8mm Distance from probe tip to dipole centers: 2.7mm
Application	General dosimetry up to 3GHz Compliance tests for mobile phones and Wireless LAN Fast automatic scanning in arbitrary phantoms

Fig. 5.2 Probe setup on robot

5.1.2 ET3DV6 E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than ± 10%. The spherical isotropy shall be evaluated and within ± 0.25dB. The sensitivity parameters (NormX, NormY, and NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data are as below:

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Sensitivity	X axis : 1.73 µV		Y axis : 1.67 µV	Z axis : 1.70 µV
Diode compression point	X axis : 95 mV		Y axis : 101 mV	Z axis : 93 mV
Conversion factor (Head / Body)	**Frequency (MHz)**	**X axis**	**Y axis**	**Z axis**
	800~1000	6.60 / 6.33	6.60 / 6.33	6.60 / 6.33
	1710~1910	5.30 / 4.67	5.30 / 4.67	5.30 / 4.67
	2350~2550	4.66 / 4.11	4.66 / 4.11	4.66 / 4.11
Boundary effect (Head / Body)	**Frequency (MHz)**	**Alpha**	**Depth**	
	800~1000	0.49 / 0.45	1.94 / 2.12	
	1710~1910	0.48 / 0.59	2.74 / 2.89	
	2350~2550	0.68 / 0.60	1.96 / 1.70	

NOTE:

- The probe parameters have been calibrated by the SPEAG.

5.2 DATA Acquisition Electronics (DAE)

The data acquisition electronics (DAE) 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 measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of the DAE is 200M Ohm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.

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5.3 Robot

The DASY4 system uses the high precision robots RX90BL type out of the newer series from Stäubli SA (France). For the 6-axis controller DASYS system, the CS7MB robot controller version from Stäubli is used. The RX robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller

5.4 Measurement Server

The DASY4 measurement server is based on a PC/104 CPU board with
166 MHz CPU
32 MB chipset and
64 MB RAM.

Communication with
the DAE4 electronic box
the 16-bit AD-converter system for optical detection and digital I/O interface.

The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.

5.5 SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

- Left head
- Right head
- Flat phantom

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections.

A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters.

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On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

The phantom can be used with the following tissue simulating liquids:
*Water-sugar based liquid
*Glycol based liquids

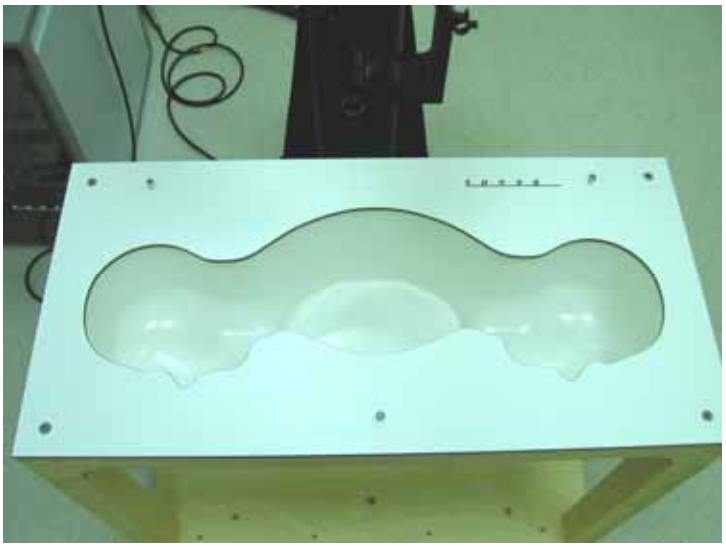

Fig. 5.3 Top view of twin phantom

Fig. 5.4 Bottom view of twin phantom

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5.6 Device Holder for SAM Twin Phantom

The SAR in the Phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source in 5 mm distance, a positioning uncertainty of ±0.5mm would produce a SAR uncertainty of ± 20%. An accurate device position is therefore crucial for accurate and repeatable measurement. The position in which the devices must be measured, are defined by the standards.

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (EPR).
Thus the device needs no repositioning when changing the angles.

The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε_r=3 and loss tangent δ = 0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

Fig. 5.5 Device Holder

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5.7 Data Storage and Evaluation

5.7.1 Data Storage

The DASY4 software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension .DA4. The postprocessing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [A/m], [mW/g]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a loseless media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

5.7.2 Data Evaluation

The DASY4 postprocessing software (SEMCAD) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software：

Probe parameters：	- Sensitivity	$Norm_i$, a_{i0}, a_{i1}, a_{i2}
	- Conversion factor	$ConvF_i$
	- Diode compression point	dcp_i
Device parameters：	- Frequency	f
	- Crest factor	cf
Media parameters：	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.
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 as：

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$$Vi = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

with
V_i = compensated signal of channel i (i = x, y, z)
U_i = input signal of channel i (i = x, y, z)
cf = crest factor of exciting field (DASY parameter)
dcp_i = diode compression point (DASY parameter)

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

E-field probes： $E_i = \sqrt{\frac{V_i}{Norm_i ConvF}}$

H-field probes： $H_i = \sqrt{V_i} \frac{a_{i0+} a_{i1} f + a_{i2} f^2}{f}$

with
V_i = compensated signal of channel *i* (*i* = x, y, z)
$Norm_i$ = sensor sensitivity of channel i (*i* = x, y, z)
μ V/(V/m)2 for E-field Probes
ConvF = sensitivity enhancement in solution
a_{ij} = sensor sensitivity factors for H-field probes
f = carrier frequency [GHz]
E_i = electric field strength of channel *i* in V/m
H_i = magnetic field strength of channel *i* in A/m

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

$$E_{tot} = \sqrt{E_X^2 + E_Y^2 + E_Z^2}$$

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

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with
SAR = local specific absorption rate in mW/g
Etot = total field strength in V/m
σ = conductivity in [mho/m] or [Siemens/m]
ρ = equivalent tissue density in g/cm^3

＊Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

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

$$P_{pwe} = \frac{E_{tot}^2}{3770} \quad \text{or} \quad P_{pwe} = H_{tot}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm^2
E_{tot} = total electric field strength in V/m
H_{tot} = total magnetic field strength in A/m

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5.8 Test Equipment List

Manufacture	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	Dosimetric E-Filed Probe	ET3DV6	1788	Sep. 19, 2006	Sep. 19, 2007
SPEAG	835MHz System Validation Kit	D835V2	499	Mar. 15, 2006	Mar. 15, 2008
SPEAG	900MHz System Validation Kit	D900V2	190	Jul. 19, 2005	Jul. 19, 2007
SPEAG	1800MHz System Validation Kit	D1800V2	2d076	Jul. 20, 2005	Jul. 20, 2007
SPEAG	1900MHz System Validation Kit	D1900V2	5d041	Mar. 21, 2006	Mar. 21, 2008
SPEAG	2450MHz System Validation Kit	D2450V2	736	Jul. 12, 2005	Jul. 12, 2007
SPEAG	Data Acquisition Electronics	DAE3	577	Nov. 21, 2006	Nov. 21, 2007
SPEAG	Device Holder	N/A	N/A	NCR	NCR
SPEAG	Phantom	QD 000 P40 C	TP-1150	NCR	NCR
SPEAG	Robot	Staubli RX90BL	F03/5W15A1/A/01	NCR	NCR
SPEAG	Software	DASY4 V4.7 Build 53	N/A	NCR	NCR
SPEAG	Software	SEMCAD V1.8 Build 172	N/A	NCR	NCR
SPEAG	Measurement Server	SE UMS 001 BA	1021	NCR	NCR
Agilent	ENA Series Network Analyzer	E5071C	MY46100746	Feb. 21, 2007	Feb. 21, 2008
Agilent	Dielectric Probe Kit	85070D	US01440205	NCR	NCR
Agilent	Dual Directional Coupler	778D	50422	NCR	NCR
Agilent	Power Amplifier	8449B	3008A01917	NCR	NCR
R&S	Radio Communication Tester	CMU200	105513	Jul. 25, 2006	Jul. 25, 2007
Agilent	Power Meter	E4416A	GB41292344	Feb. 08, 2007	Feb. 08, 2008
Agilent	Power Sensor	E9327A	US40441548	Feb. 08, 2007	Feb. 08, 2008
Agilent	Signal Generator	E8247C	MY43320596	Mar. 01, 2006	Mar. 01, 2008

Table 5.1 Test Equipment List

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6. Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY4, the phantom must be filled with around 25 liters of homogeneous tissue simulating liquid. The liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is (head SAR)or from the flat phantom to the liquid top surface (body SAR) is 15.2cm.

The following ingredients for tissue simulating liquid are used:

- **Water**: deionized water (pure H_20), resistivity $\geqq 16M\Omega$ - as basis for the liquid
- **Sugar**: refined sugar in crystals, as available in food shops – to reduce relative permittivity
- **Salt**: pure NaCl – to increase conductivity
- **Cellulose**: Hydroxyethyl-cellulose, medium viscosity (75-125 mPa.s, 2% in water, 20°C), CAS#54290-to increase viscosity and to keep sugar in solution.
- **Preservative**: Preventol D-7 Bayer AG, D-51368 Leverkusen, CAS#55965-84-9- to prevent the spread of bacteria and molds.
- **DGMBE**: Deithlenglycol-monobuthyl ether (DGMBE), Fluka Chemie GmbH, CAS#112-34-5 – to reduce relative permittivity.

Table 6.1 gives the recipes for one liter of body tissue simulating liquid for frequency band 850, 1900 and 2450 MHz.

Ingredient	MSL-850	MSL-1900	MSL-2450
Water	631.68 g	716.56 g	698.3 ml
Cellulose	0 g	0 g	---
Salt	11.72 g	4.0 g	---
Preventol D-7	1.2 g	0 g	---
Sugar	600.0 g	0 g	---
DGMBE	0 g	300.67 g	301.7 ml
Total amount	1 liter	1 liter (1.0 kg)	1 liter (1.0 kg)
Dielectric Parameters at 22°	f = 835 MHz ε_r= 55.2±5%, σ = 0.97±5% S/m	f= 1900 MHz ε_r= 53.3±5 %, σ = 1.52±5% S/m	f = 2450MHz ε_r= 52.7±5%, σ = 1.95±5% S/m

Table 6.1

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an Agilent 85070D Dielectric Probe Kit and an Agilent Network Analyzer.

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Table 6.2 shows the measuring results for muscle simulating liquid.

DUT Configuration	Bands	Frequency(MHz)	Permittivity (ε_r)	Conductivity (σ)	Measurement Date
With VT Camera	GSM850 band (824 ~ 849 MHz)	824.2	54.3	0.956	Mar. 30, 2007
		836.4	54.1	0.969	
		848.8	54.0	0.982	
	PCS1900 band (1850 ~ 1910 MHz)	1850.2	52.8	1.48	Mar. 30, 2007
		1880.0	52.6	1.51	
		1909.8	52.5	1.56	
	WCDMA band 5 (824 ~ 849 MHz)	826.4	54.3	0.956	Mar. 30, 2007
		836.4	54.1	0.969	
		846.6	54.0	0.982	
	WCDMA band 2 (1850 ~ 1910 MHz)	1852.4	52.8	1.48	Mar. 30, 2007
		1880.0	52.6	1.51	
		1907.6	52.5	1.56	
	2450 MHz	2412	53.4	1.91	Apr. 12, 2007
		2437	53.4	1.95	
		2462	53.3	1.98	
Without VT Camera	GSM850 band (824 ~ 849 MHz)	824.2	54.3	0.956	Apr. 18, 2007
		836.4	54.1	0.968	
		848.8	54.0	0.982	
	PCS1900 band (1850 ~ 1910 MHz)	1850.2	52.8	1.48	Apr. 18, 2007
		1880.0	52.6	1.51	
		1909.8	52.5	1.56	
	WCDMA band 5 (824 ~ 849 MHz)	826.4	54.3	0.958	Apr. 18, 2007
		836.4	54.1	0.969	
		846.6	54.0	0.980	
	WCDMA band 2 (1850 ~ 1910 MHz)	1852.4	52.8	1.48	Apr. 18, 2007
		1880.0	52.6	1.51	
		1907.6	52.5	1.56	
	2450 MHz	2412	53.4	1.91	Apr. 18, 2007
		2437	53.4	1.95	
		2462	53.3	1.98	

Table 6.2

The measuring data are consistent with ε_r= 55.2 ± 5% and σ = 0.97 ± 5% for body 850 band and ε_r = 53.3 ± 5% and σ = 1.52 ± 5% for body 1900 band and ε_r = 52.7 ± 5% and σ = 1.95 ± 5% for 2450 band.

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7. Uncertainty Assessment

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in Table 6.1

Uncertainty Distributions	Normal	Rectangular	Triangular	U-shape
Multiplying factor[(a)]	$1/k$ (b)	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) κ is the coverage factor

Table 7.1

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY4 uncertainty Budget is showed in Table 7.2.

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Error Description	Uncertainty Value ± %	Probability Distribution	Divisor	C_i 1g	Standard Unc. (1-g)	v_i or V_{eff}
Measurement System						
Probe Calibration	± 4.8	Normal	1	1	±4.8	∞
Axial Isotropy	± 4.7	Rectangular	√3	$(1\text{-Cp})^{1/2}$	±1.9	∞
Hemispherical Isotropy	± 9.6	Rectangular	√3	$(Cp)^{1/2}$	±3.9	∞
Boundary Effect	± 1.0	Rectangular	√3	1	±0.6	∞
Linearity	± 4.7	Rectangular	√3	1	±2.7	∞
System Detection Limit	± 1.0	Rectangular	√3	1	±0.6	∞
Readout Electronics	± 1.0	Rectangular	1	1	±1.0	∞
Response Time	± 0.8	Normal	√3	1	± 0.5	∞
Integration time	±2.6	Rectangular	√3	1	±1.5	∞
RF Ambient Conditions	± 3.0	Rectangular	√3	1	±1.7	∞
Probe Positioner Mech. Tolerance	± 0.4	Rectangular	√3	1	±0.2	∞
Probe Positioning with respect to Phantom Shell	± 2.9	Rectangular	√3	1	±1.7	∞
Extrapolation and Interpolation Algorithms for Max. SAR Evaluation	± 1.0	Rectangular	√3	1	±0.6	∞
Test sample Related						
Test sample Positioning	±2.9	Normal	1	1	±2.9	145
Device Holder Uncertainty	±3.6	Normal	1	1	±3.6	5
Output Power Variation-SAR drift measurement	±2.5	Rectangular	√3	1	±1.4	∞
Phantom and Tissue parameters						
Phantom uncertainty(Including shap and thickness tolerances)	±4.0	Rectangular	√3	1	±2.3	∞
Liquid Conductivity Target tolerance	±5.0	Rectangular	√3	0.64	±1.8	∞
Liquid Conductivity measurement uncertainty	±2.5	Normal	1	0.64	±1.6	∞
Liquid Permittivity Target tolerance	±5.0	Rectangular	√3	0.6	±1.7	∞
Liquid Permittivity measurement uncertainty	±2.0	Normal	1	0.6	±1.2	∞
Combined standard uncertainty					±10.3	330
Coverage Factor for 95 %		K=2				
Expanded uncertainty (Coverage factor = 2)					**±20.6**	

Table 7.2 Uncertainty Budget of DASY

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8. SAR Measurement Evaluation

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

8.1 Purpose of System Performance check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

8.2 System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 835, 1900 and 2450 MHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:

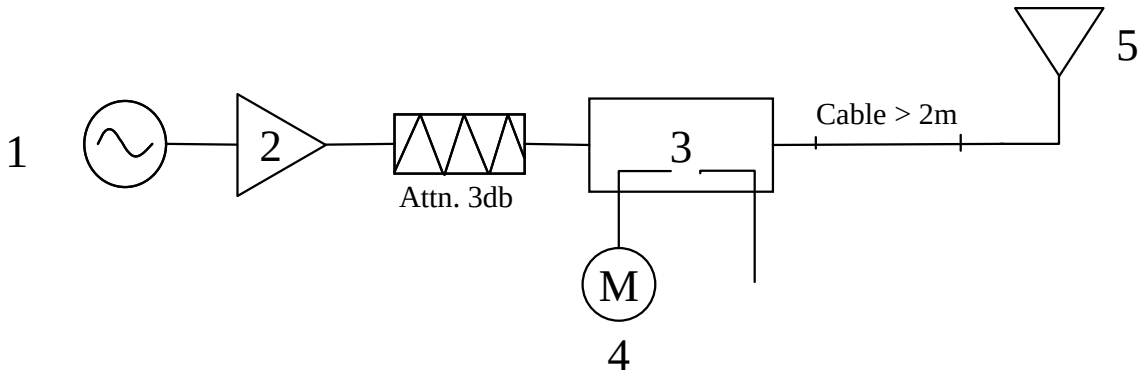

Fig. 8.1

1. Signal Generator
2. Amplifier
3. Directional Coupler
4. Power Meter
5. 835 or 1900 or 2450 MHz Dipole

The output power on dipole port must be calibrated to 20dBm (100mW) before dipole is connected.

Fig 8.2 Dipole Setup

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8.3 Validation Results

Comparing to the original SAR value provided by Speag, the validation data should be within its specification of 10 %. Table 8.1 shows the target SAR and measured SAR after normalized to 1W input power.

DUT Configuration			**Target (W/kg)**	**Measurement data (W/kg)**	**Variation**	**Measurement Date**
With VT Camera	835MHz	SAR (1g)	9.91	9.94	0.3 %	Mar. 30, 2007
		SAR (10g)	6.55	6.55	0.0 %	
	1900MHz	SAR (1g)	41.1	38.6	-6.1 %	Mar. 30, 2007
		SAR (10g)	21.8	20.7	-5.0 %	
	ISM band (2450 MHz)	SAR (1g)	52.8	51.8	-1.9 %	Apr. 12, 2007
		SAR (10g)	24.5	24.1	-1.6 %	
Without VT Camera	835MHz	SAR (1g)	9.91	9.55	-3.6 %	Apr. 18, 2007
		SAR (10g)	6.55	6.29	-4.0 %	
	1900MHz	SAR (1g)	41.1	38.6	-6.1 %	Apr. 18, 2007
		SAR (10g)	21.8	20.7	-5.0 %	
	ISM band (2450 MHz)	SAR (1g)	52.8	55.3	4.7 %	Apr. 18, 2007
		SAR (10g)	24.5	25.8	5.3 %	

Table 8.1

The table above indicates the system performance check can meet the variation criterion.

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9. Description for DUT Testing Position

This DUT was tested in two different positions. The first one is “Keypad Up with 1.5cm Gap”, and second one is “Keypad Down with 1.5cm Gap”.

The setup photo please refer to appendix E.

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10. Measurement Procedures

The measurement procedures are as follows:

- Linking DUT with base station emulator CMU200 in middle channel for GSM850 or PCS or WCDMA or using engineering software to transmit RF power continuously (continuous Tx) in the middle channel
- Setting PCL=5 for GSM850 and PCL=0 for PCS and WCDMA on CMU200 to allow DUT to radiate maximum output power
- Measuring output power through RF cable and power meter
- Placing the DUT in the positions described in the last section
- Setting scan area, grid size and other setting on the DASY4 software
- Taking data for the lowest, middle, and highest channel on each testing position

According to the IEEE P1528 draft standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- Power reference measurement
- Area scan
- Zoom scan
- Power reference measurement

10.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the IEEE1528-2003 standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY4 software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

Base on the Draft: SCC-34, SC-2, WG-2-Computational Dosimetry, IEEE P1528/D1.2 (Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques), a new algorithm has been implemented. The spatial-peak SAR can be computed over any required mass.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose , the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the postprocessing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

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- extraction of the measured data (grid and values) from the Zoom Scan
- calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- generation of a high-resolution mesh within the measured volume

- interpolation of all measured values form the measurement grid to the high-resolution grid
- extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- calculation of the averaged SAR within masses of 1g and 10g

10.2 Scan Procedures

First **Area Scan** is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an **Area Scan** is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, **Zoom Scan** is required. The **Zoom Scan** measures 5x5x7 points with step size 8, 8 and 5 mm. The **Zoom Scan** is performed around the highest E-field value to determine the averaged SAR-distribution over 1 g.

10.3 SAR Averaged Methods

In DASY4, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

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11. SAR Test Results

11.1 Keypad Up with 1.5cm Gap

DUT Configuration	Band	Chan.	Freq. (MHz)	Modulation type	Conducted Power (dBm)	Power Drift (dB)	Measured 1g SAR (W/kg)	Limits (W/Kg)	Results
With VT Camera	GSM850 (GPRS10)	128 (Low)	824.2	GMSK	33.02	-	-	-	-
		189 (Mid)	836.4	GMSK	33.51	-0.109	0.122	1.6	Pass
		251 (High)	848.8	GMSK	33.74	-	-	-	-
	GSM850 (EDGE10)	128 (Low)	824.2	8PSK	26.73	-	-	-	-
		189 (Mid)	836.4	8PSK	26.80	-	-	-	-
		251 (High)	848.8	8PSK	26.89	-	-	-	-
	PCS1900 (GPRS10)	512 (Low)	1850.2	GMSK	30.32	-	-	-	-
		661(Mid)	1880.0	GMSK	30.49	-0.089	0.054	1.6	Pass
		810 (High)	1909.8	GMSK	30.88	-	-	-	-
	PCS1900 (EDGE10)	512 (Low)	1850.2	8PSK	26.05	-	-	-	-
		661(Mid)	1880.0	8PSK	25.88	-	-	-	-
		810 (High)	1909.8	8PSK	25.60	-	-	-	-
	WCDMA Band 5 (RMC 12.2K)	4132 (Low)	826.4	QPSK	23.91	-	-	-	-
		4182 (Mid)	836.4	QPSK	23.87	0.102	0.074	1.6	Pass
		4233 (High)	846.6	QPSK	23.94	-	-	-	-
	WCDMA Band 5 (RMC 64K)	4132 (Low)	826.4	QPSK	23.91	-	-	-	-
		4182 (Mid)	836.4	QPSK	23.92	-	-	-	-
		4233 (High)	846.6	QPSK	23.89	-	-	-	-
	WCDMA Band 5 (RMC 144K)	4132 (Low)	826.4	QPSK	23.93	-	-	-	-
		4182 (Mid)	836.4	QPSK	23.81	-	-	-	-
		4233 (High)	846.6	QPSK	23.96	-	-	-	-
	WCDMA Band 5 (RMC 384K)	4132 (Low)	826.4	QPSK	23.92	-	-	-	-
		4182 (Mid)	836.4	QPSK	23.81	-	-	-	-
		4233 (High)	846.6	QPSK	23.88	-	-	-	-
	WCDMA Band 2 (RMC 12.2K)	9262 (Low)	1852.4	QPSK	23.12	-	-	-	-
		9400 (Mid)	1880.0	QPSK	23.36	-0.157	0.077	1.6	Pass
		9538 (High)	1907.6	QPSK	23.63	-	-	-	-
	WCDMA Band 2 (RMC 64K)	9262 (Low)	1852.4	QPSK	22.94	-	-	-	-
		9400 (Mid)	1880.0	QPSK	23.49	-	-	-	-
		9538 (High)	1907.6	QPSK	23.59	-	-	-	-
	WCDMA Band 2 (RMC 144K)	9262 (Low)	1852.4	QPSK	23.10	-	-	-	-
		9400 (Mid)	1880.0	QPSK	23.15	-	-	-	-
		9538 (High)	1907.6	QPSK	23.68	-	-	-	-
	WCDMA Band 2 (RMC 384K)	9262 (Low)	1852.4	QPSK	23.28	-	-	-	-
		9400 (Mid)	1880.0	QPSK	23.13	-	-	-	-
		9538 (High)	1907.6	QPSK	23.47	-	-	-	-
	HSDPA Band 5 (RMC 12.2K)	4132 (Low)	826.4	QPSK	23.32	-	-	-	-
		4182 (Mid)	836.4	QPSK	23.80	0.019	0.237	1.6	Pass
		4233 (High)	846.6	QPSK	23.41	-	-	-	-
	HSDPA Band 2 (RMC 12.2K)	9262 (Low)	1852.4	QPSK	23.16	-	-	-	-
		9400 (Mid)	1880.0	QPSK	23.11	-0.048	0.413	1.6	Pass
		9538 (High)	1907.6	QPSK	23.41	-	-	-	-
	802.11b	1 (Low)	2412	CCK	15.20	-	-	-	-
		6 (Mid)	2437	CCK	15.78	-0.128	0.014	1.6	Pass
		11 (High)	2462	CCK	15.40	-	-	-	-
	802.11g	1 (Low)	2412	OFDM	20.41	-	-	-	-
		6 (Mid)	2437	OFDM	20.97	-	-	-	-
		11 (High)	2462	OFDM	21.23	-	-	-	-

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11.2 Keypad Down with 1.5cm Gap

DUT Configuration	Band	Chan.	Freq. (MHz)	Modulation type	Conducted Power (dBm)	Power Drift (dB)	Measured 1g SAR (W/kg)	Limits (W/Kg)	Results
With VT Camera	GSM850 (GPRS10)	**128 (Low)**	**824.2**	**GMSK**	**33.02**	**-0.04**	**0.38**	**1.6**	**Pass**
		189 (Mid)	836.4	GMSK	33.51	0.012	0.329	1.6	Pass
		251 (High)	848.8	GMSK	33.74	0.012	0.313	1.6	Pass
	GSM850 (GPRS10) with BT On	128 (Low)	824.2	GMSK	33.02	-0.01	0.38	1.6	Pass
	GSM850 (EDGE10)	128 (Low)	824.2	8PSK	26.73	-	-	-	-
		189 (Mid)	836.4	8PSK	26.80	0.129	0.305	1.6	Pass
		251 (High)	848.8	8PSK	26.89	-	-	-	-
	PCS1900 (GPRS10)	512 (Low)	1850.2	GMSK	30.32	0.06	0.38	1.6	Pass
		661(Mid)	1880.0	GMSK	30.49	0.084	0.31	1.6	Pass
		810 (High)	1909.8	GMSK	30.88	0.009	0.295	1.6	Pass
	PCS1900 (GPRS10) with BT On	**512 (Low)**	**1850.2**	**GMSK**	**30.32**	**0.043**	**0.382**	**1.6**	**Pass**
	PCS1900 (EDGE10)	512 (Low)	1850.2	8PSK	26.05	-	-	-	-
		661(Mid)	1880.0	8PSK	25.88	0.137	0.31	1.6	Pass
		810 (High)	1909.8	8PSK	25.60	-	-	-	-
	WCDMA Band 5 (RMC 12.2K)	4132 (Low)	826.4	QPSK	23.91	-	-	-	-
		4182 (Mid)	836.4	QPSK	23.87	0.161	0.243	1.6	Pass
		4233 (High)	846.6	QPSK	23.94	-	-	-	-
	WCDMA Band 5 (RMC 64K)	4132 (Low)	826.4	QPSK	23.91	-0.006	0.216	1.6	Pass
		4182 (Mid)	836.4	QPSK	23.92	0.032	0.261	1.6	Pass
		4233 (High)	846.6	QPSK	23.89	0.052	0.207	1.6	Pass
	WCDMA Band 5 (RMC 64K) with BT On	**4182 (Mid)**	**836.4**	**QPSK**	**23.92**	**-0.13**	**0.267**	**1.6**	**Pass**
	WCDMA Band 5 (RMC 144K)	4132 (Low)	826.4	QPSK	23.93	-	-	-	-
		4182 (Mid)	836.4	QPSK	23.81	0.02	0.259	1.6	Pass
		4233 (High)	846.6	QPSK	23.96	-	-	-	-
	WCDMA Band 5 (RMC 384K)	4132 (Low)	826.4	QPSK	23.92	-	-	-	-
		4182 (Mid)	836.4	QPSK	23.81	0.117	0.251	1.6	Pass
		4233 (High)	846.6	QPSK	23.88	-	-	-	-
	HSDPA Band 5 (RMC 12.2K)	4132 (Low)	826.4	QPSK	23.32	-	-	-	-
		4182 (Mid)	836.4	QPSK	23.80	0.019	0.237	1.6	Pass
		4233 (High)	846.6	QPSK	23.41	-	-	-	-
	WCDMA Band 2 (RMC 12.2K)	9262 (Low)	1852.4	QPSK	23.12	-	-	-	-
		9400 (Mid)	1880.0	QPSK	23.36	-0.159	0.442	1.6	Pass
		9538 (High)	1907.6	QPSK	23.63	-	-	-	-
	WCDMA Band 2 (RMC 64K)	9262 (Low)	1852.4	QPSK	22.94	-0.189	0.401	1.6	Pass
		9400 (Mid)	1880.0	QPSK	23.49	0.128	0.462	1.6	Pass
		9538 (High)	1907.6	QPSK	23.59	-0.157	0.479	1.6	Pass
	WCDMA Band 2 (RMC 64K) with BT On	**9538 (High)**	**1907.6**	**QPSK**	**23.47**	**0.016**	**0.482**	**1.6**	**Pass**
	WCDMA Band 2 (RMC 144K)	9262 (Low)	1852.4	QPSK	23.10	-	-	-	-
		9400 (Mid)	1880.0	QPSK	23.15	-0.04	0.451	1.6	Pass
		9538 (High)	1907.6	QPSK	23.68	-	-	-	-
	WCDMA Band 2 (RMC 384K)	9262 (Low)	1852.4	QPSK	23.28	-	-	-	-
		9400 (Mid)	1880.0	QPSK	23.13	-0.113	0.452	1.6	Pass
		9538 (High)	1907.6	QPSK	23.47	-	-	-	-
	HSDPA Band 2 (RMC 12.2K)	9262 (Low)	1852.4	QPSK	23.16	-	-	-	-
		9400 (Mid)	1880.0	QPSK	23.11	-0.048	0.413	1.6	Pass
		9538 (High)	1907.6	QPSK	23.41	-	-	-	-

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DUT Configuration	Band	Chan.	Freq. (MHz)	Modulation type	Conducted Power (dBm)	Power Drift (dB)	Measured 1g SAR (W/kg)	Limits (W/Kg)	Results
With VT Camera	802.11b	1 (Low)	2412	CCK	15.20	0.18	0.077	1.6	Pass
		6 (Mid)	2437	CCK	15.78	-0.105	0.079	1.6	Pass
		11 (High)	2462	CCK	15.40	-0.032	0.086	1.6	Pass
	802.11b with BT On	**11 (High)**	**2462**	**CCK**	**15.40**	**-0.108**	**0.088**	**1.6**	**Pass**
	802.11g	1 (Low)	2412	OFDM	20.41	-	-	-	-
		6 (Mid)	2437	OFDM	20.97	-0.001	0.073	1.6	Pass
		11 (High)	2462	OFDM	21.23	-	-	-	-
Without VT Camera	GSM850 (GPRS10)	**128 (Low)**	**824.2**	**GMSK**	**33.02**	**-0.107**	**0.427**	**1.6**	**Pass**
	PCS1900 (GPRS10) with BT On	**512 (Low)**	**1850.2**	**GMSK**	**30.32**	**-0.158**	**0.444**	**1.6**	**Pass**
	WCDMA Band 5 (RMC 64K) with BT On	**4182 (Mid)**	**836.4**	**QPSK**	**23.92**	**0.049**	**0.261**	**1.6**	**Pass**
	WCDMA Band 2 (RMC 384K) with BT On	**9538 (High)**	**1907.6**	**QPSK**	**23.47**	**-0.14**	**0.52**	**1.6**	**Pass**
	802.11b with BT On	**11 (High)**	**2462**	**CCK**	**15.40**	**-0.113**	**0.073**	**1.6**	**Pass**

Remark:
1. The largest summation of GSM850 and WLAN for body SAR on ATHE100 with VT camera is 0.468 W/Kg and on ATHE100 without VT camera is 0.5 W/Kg, and its position is keypad down with 1.5cm gap.
2. The largest summation of PCS1900 and WLAN for body SAR on ATHE100 with VT camera is 0.47 W/Kg and on ATHE100 without VT camera is 0.517 W/Kg, and its position is keypad down with 1.5cm gap.
3. The largest summation of WCDMA Band 5 and WLAN for body SAR on ATHE100 with VT camera is 0.355 W/Kg and on ATHE100 without VT camera is 0.334 W/Kg, and its position is keypad down with 1.5cm gap.
4. The largest summation of WCDMA Band 2 and WLAN for body SAR on ATHE100 with VT camera is 0.57 W/Kg and on ATHE100 without VT camera is 0.593 W/Kg, and its position is keypad down with 1.5cm gap.

Test Engineer：John Tsai and Neil Chen and Gordon Lin

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12. References

[1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”
[2] IEEE Std. P1528-2003, “Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, April 21, 2003
[3] Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01), “Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to RF Emissions”, June 2001
[4] IEEE Std. C95.3-2002, “IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields-RF and Microwave”, 2002
[5] IEEE Std. C95.1-1999, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, 1999
[6] Robert J. Renka, “Multivariate Interpolation Of Large Sets Of Scattered Data”, University of Noth Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148
[7] DAYS4 System Handbook

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Appendix A - System Performance Check Data

Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/30/2007 7:28:42 PM

System Check_Body_835MHz_20070330

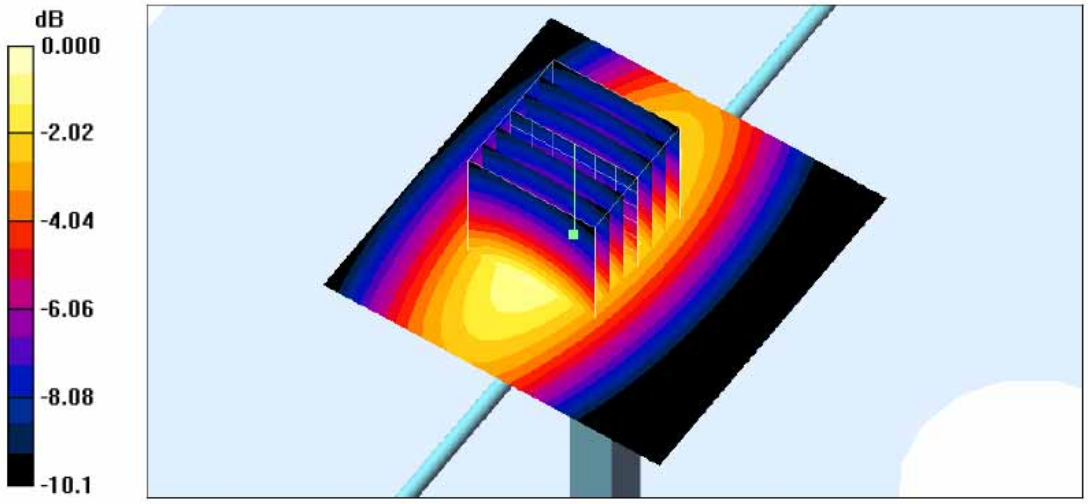
DUT: Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used: f = 835 MHz; σ = 0.967 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3
Ambient Temperature : 22.3 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin=100mW/Area Scan (41x41x1): Measurement grid: dx=20mm, dy=20mm
Maximum value of SAR (interpolated) = 0.974 mW/g

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 31.4 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.994 mW/g; SAR(10 g) = 0.655 mW/g
Maximum value of SAR (measured) = 1.08 mW/g



0 dB = 1.08mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/30/2007 8:21:54 PM

System Check_Body_1900MHz_20070330

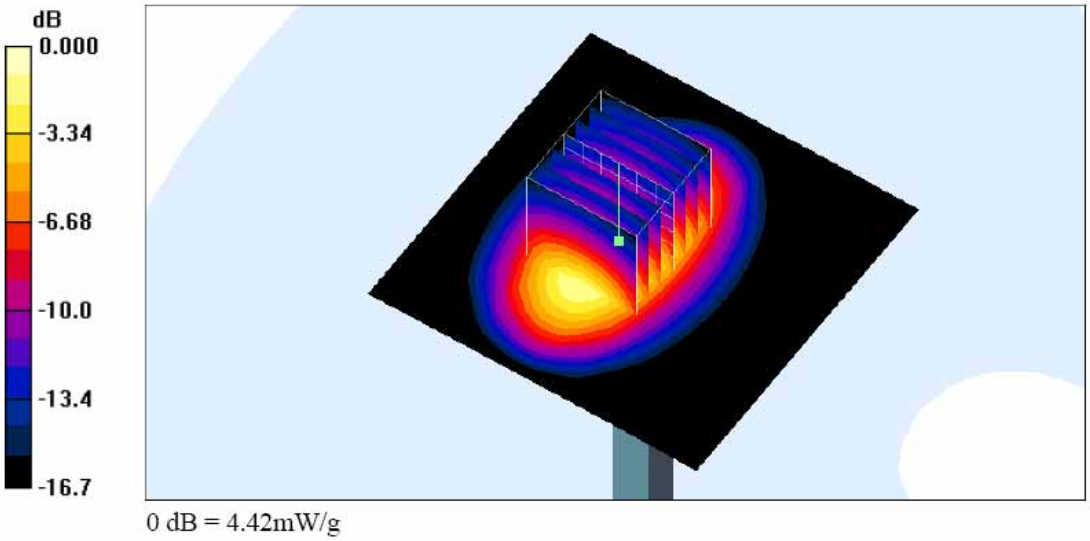
DUT: Dipole 1900 MHz

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1900 MHz; σ = 1.54 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Ambient Temperature : 22.6 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin=100mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 4.54 mW/g

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.2 V/m; Power Drift = -0.010 dB
Peak SAR (extrapolated) = 6.25 W/kg
SAR(1 g) = 3.86 mW/g; SAR(10 g) = 2.07 mW/g
Maximum value of SAR (measured) = 4.42 mW/g



0 dB = 4.42mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/18/2007 8:00:30 AM

System Check_Body_835MHz_20070418

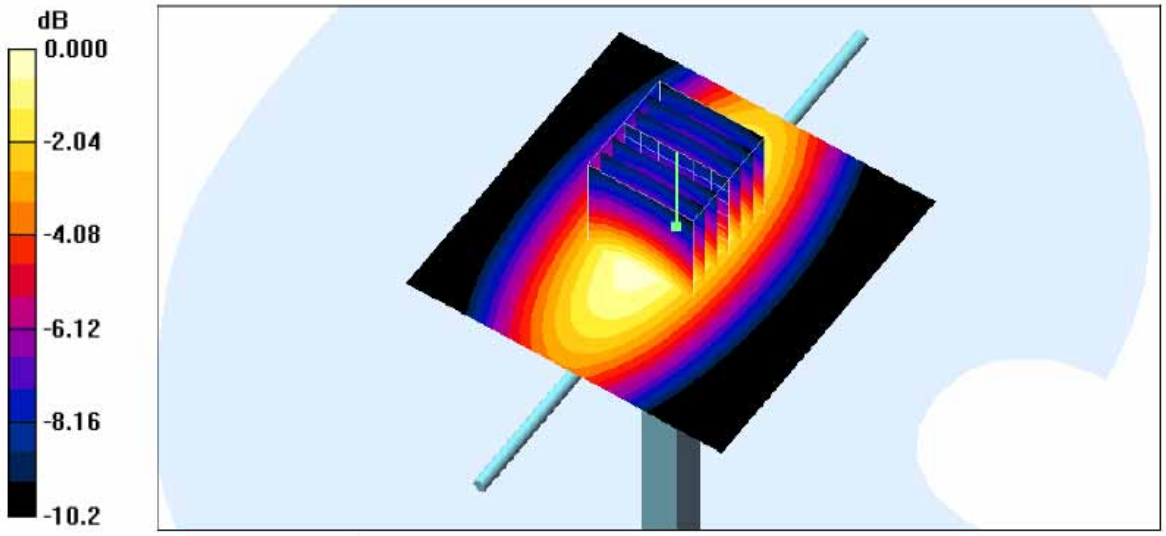
DUT: Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used: f = 835 MHz; σ = 0.967 mho/m; ε_r = 54.2; ρ = 1000 kg/m^3
Ambient Temperature : 22.9 ℃; Liquid Temperature : 22.1 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin=100mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.05 mW/g

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.8 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.955 mW/g; SAR(10 g) = 0.629 mW/g
Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/18/2007 1:56:54 PM

System Check_Body_1900MHz_20070418

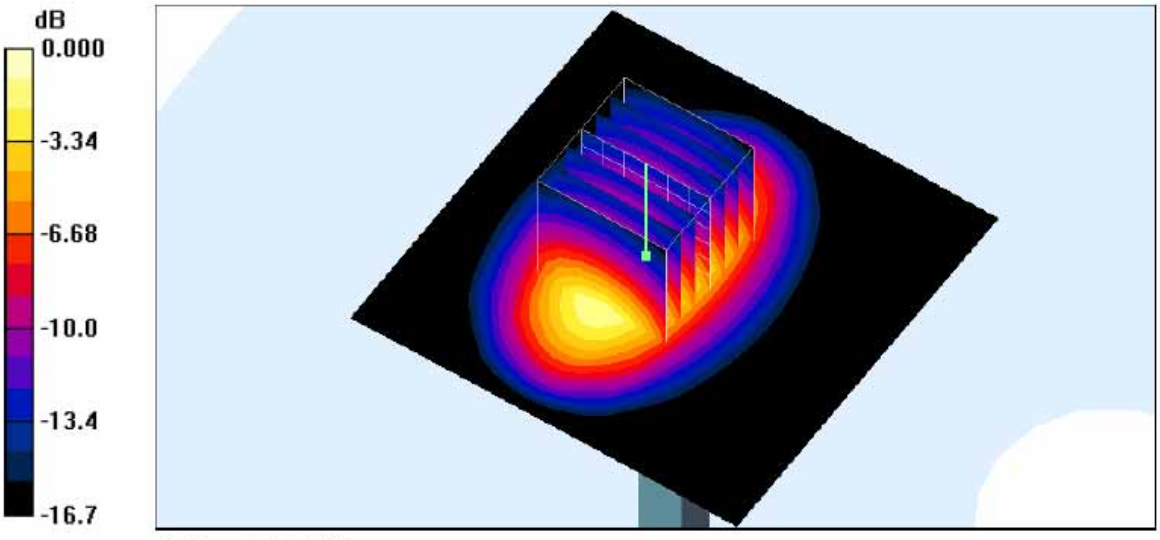
DUT: Dipole 1900 MHz

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1900 MHz; σ = 1.54 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Ambient Temperature : 22.9 ℃; Liquid Temperature : 21.7 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin=100mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 4.54 mW/g

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.2 V/m; Power Drift = -0.010 dB
Peak SAR (extrapolated) = 6.25 W/kg
SAR(1 g) = 3.86 mW/g; SAR(10 g) = 2.07 mW/g
Maximum value of SAR (measured) = 4.42 mW/g



0 dB = 4.42mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/12/2007 11:39:10 AM

System Check_Body_2450MHz_20070412

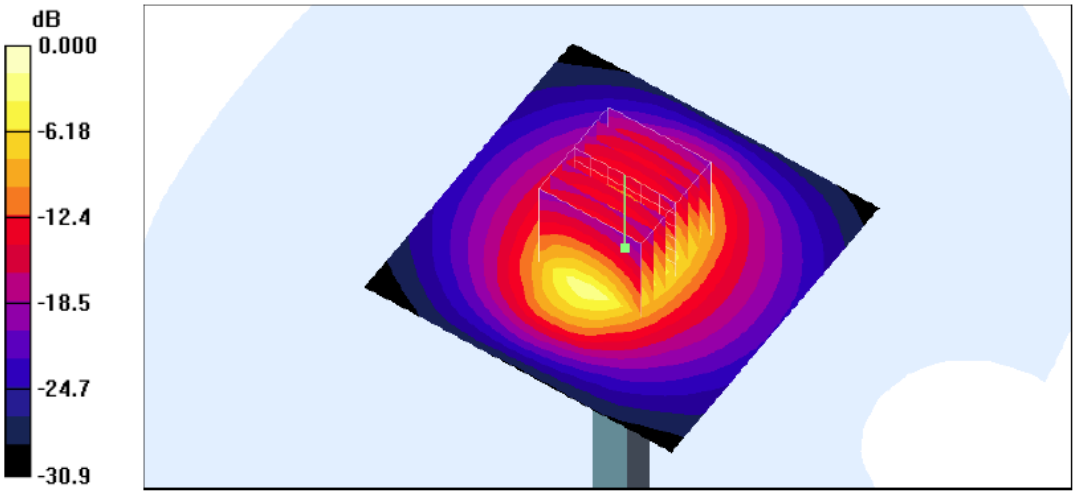
DUT: Dipole 2450 MHz

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: MSL_2450 Medium parameters used: f = 2450 MHz; σ = 1.96 mho/m; ε_r = 53.4; ρ = 1000 kg/m^3
Ambient Temperature：21.9 ℃; Liquid Temperature：22.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.11, 4.11, 4.11); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.9 V/m; Power Drift = -0.018 dB
Peak SAR (extrapolated) = 12.0 W/kg
SAR(1 g) = 5.18 mW/g; SAR(10 g) = 2.41 mW/g
Maximum value of SAR (measured) = 5.69 mW/g

Pin=100mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 5.97 mW/g



0 dB = 5.97mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/18/2007 5:59:25 PM

System Check_Body_2450MHz_20070418

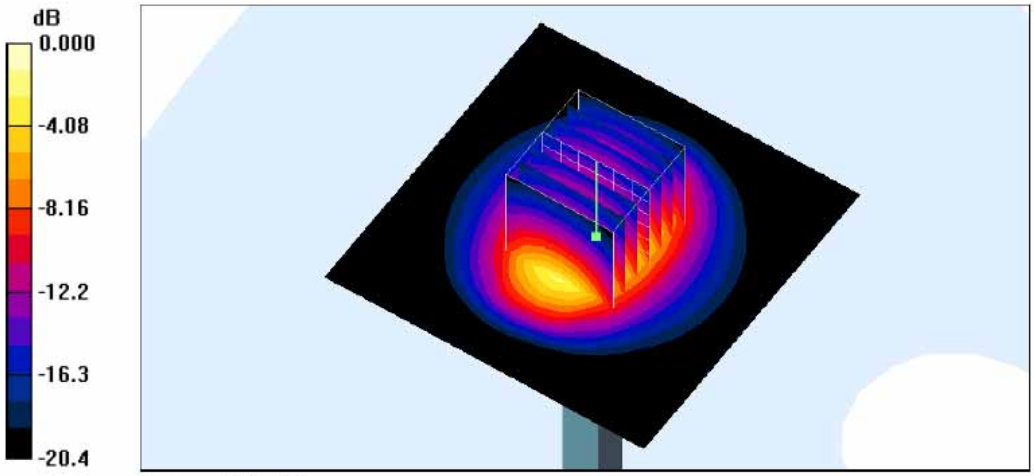
DUT: Dipole 2450 MHz

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: MSL_2450 Medium parameters used: f = 2450 MHz; σ = 1.96 mho/m; ε_r = 53.4; ρ = 1000 kg/m^3
Ambient Temperature : 23.2 ℃; Liquid Temperature : 21.9 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.11, 4.11, 4.11); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Pin=100mW/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 6.43 mW/g

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 57.9 V/m; Power Drift = -0.021 dB
Peak SAR (extrapolated) = 12.9 W/kg
SAR(1 g) = 5.53 mW/g; SAR(10 g) = 2.58 mW/g
Maximum value of SAR (measured) = 6.12 mW/g



0 dB = 6.12mW/g

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Appendix B - SAR Measurement Data

Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/30/2007 10:19:28 PM

Body_GSM850 Ch189_Keypad Up With 1.5cm Gap_20070330_GPRS10

DUT: 731703

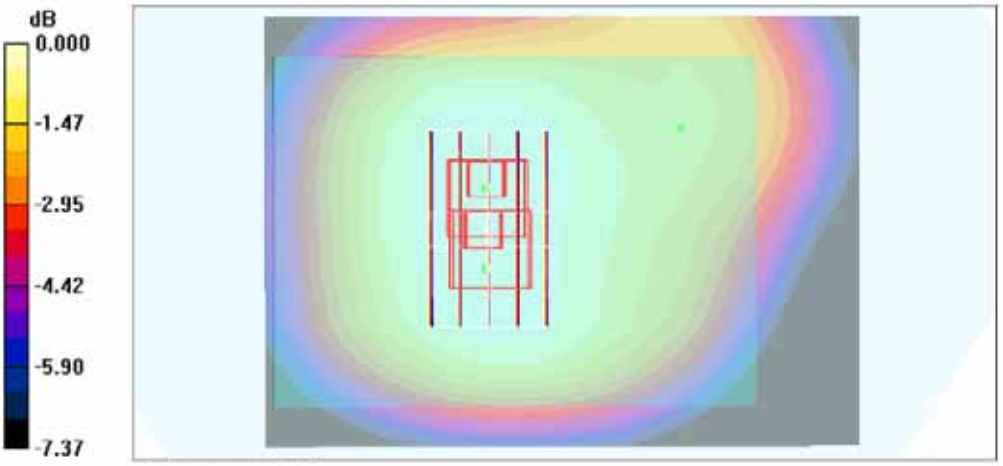
Communication System: GSM850; Frequency: 836.4 MHz;Duty Cycle: 1:4
Medium: MSL_850 Medium parameters used : f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Ambient Temperature : 22.3 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch189/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.127 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.7 V/m; Power Drift = -0.109 dB
Peak SAR (extrapolated) = 0.149 W/kg
SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.095 mW/g
Maximum value of SAR (measured) = 0.128 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.7 V/m; Power Drift = -0.109 dB
Peak SAR (extrapolated) = 0.146 W/kg
SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.093 mW/g
Maximum value of SAR (measured) = 0.125 mW/g



0 dB = 0.125mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 6:17:49 AM

Body_PCS Ch661_Keypad Up With 1.5cm Gap_20070330_GPRS10

DUT: 731703

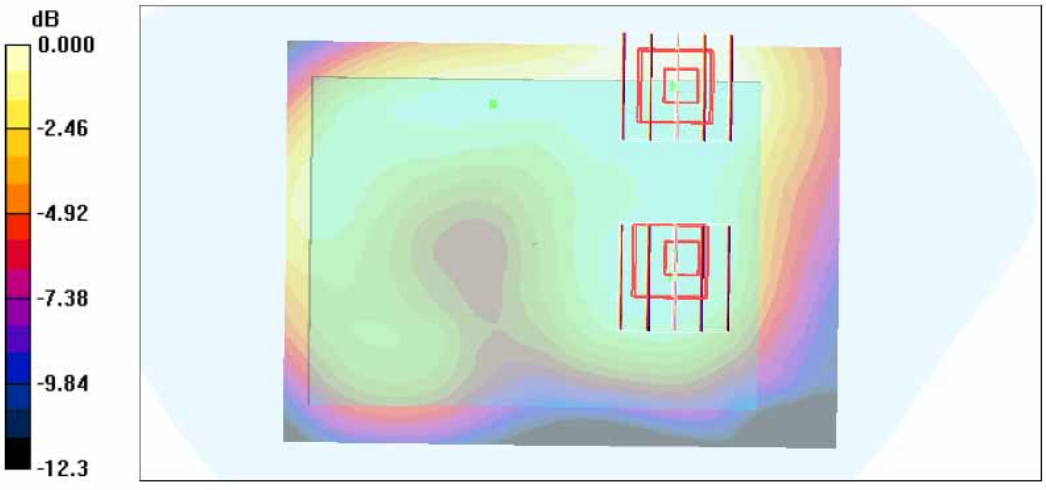
Communication System: PCS; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Ambient Temperature : 22.6 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch661/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.059 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.07 V/m; Power Drift = -0.089 dB
Peak SAR (extrapolated) = 0.081 W/kg
SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.035 mW/g
Maximum value of SAR (measured) = 0.058 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.07 V/m; Power Drift = -0.089 dB
Peak SAR (extrapolated) = 0.061 W/kg
SAR(1 g) = 0.043 mW/g; SAR(10 g) = 0.029 mW/g
Maximum value of SAR (measured) = 0.045 mW/g



0 dB = 0.045mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 11:05:24 AM

Body_WCDMA Ch4182_Keypad Up With 1.5cm Gap_20070330_RMC 12.2k

DUT: 731703

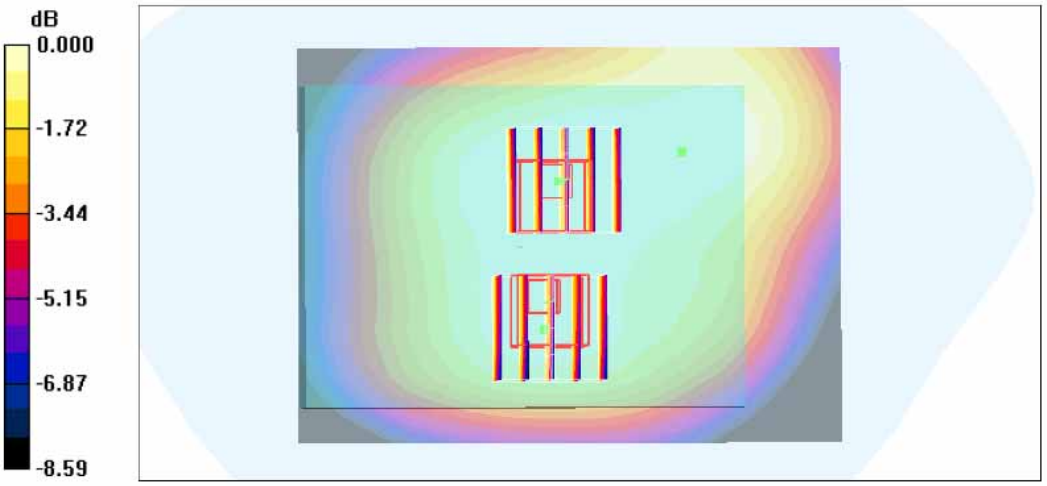
Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used : f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Ambient Temperature : 22.6 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch4182/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.077 mW/g

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.64 V/m; Power Drift = 0.102 dB
Peak SAR (extrapolated) = 0.092 W/kg
SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.057 mW/g
Maximum value of SAR (measured) = 0.077 mW/g

Ch4182/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.64 V/m; Power Drift = 0.102 dB
Peak SAR (extrapolated) = 0.087 W/kg
SAR(1 g) = 0.071 mW/g; SAR(10 g) = 0.054 mW/g
Maximum value of SAR (measured) = 0.074 mW/g



0 dB = 0.074mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 2:02:53 AM

Body_WCDMA Ch9400_Keypad Up With 1.5cm Gap_20070330_RMC 12.2k

DUT: 731703

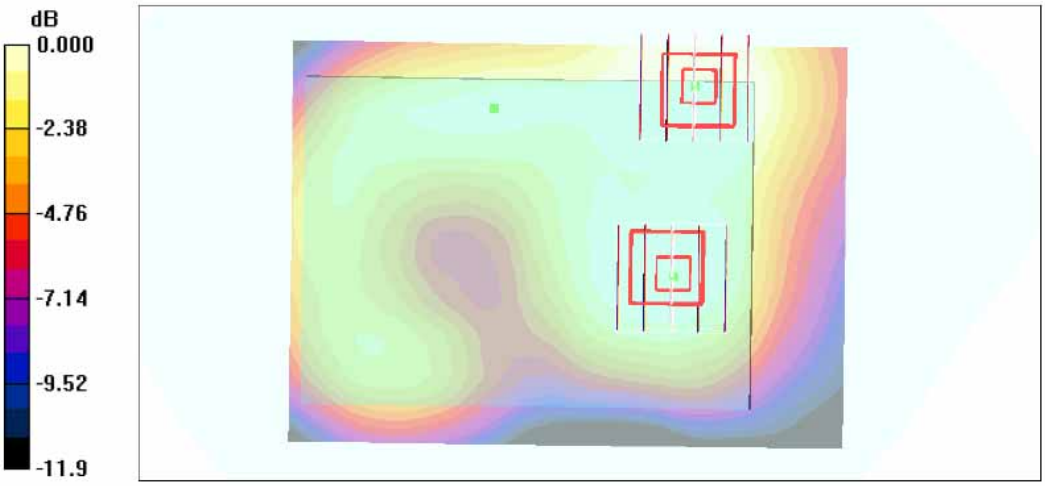
Communication System: WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Ambient Temperature : 22.4 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch9400/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.084 mW/g

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.54 V/m; Power Drift = -0.157 dB
Peak SAR (extrapolated) = 0.113 W/kg
SAR(1 g) = 0.077 mW/g; SAR(10 g) = 0.050 mW/g
Maximum value of SAR (measured) = 0.083 mW/g

Ch9400/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.54 V/m; Power Drift = -0.157 dB
Peak SAR (extrapolated) = 0.086 W/kg
SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.044 mW/g
Maximum value of SAR (measured) = 0.068 mW/g



0 dB = 0.068mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/12/2007 1:17:40 PM

Body_802.11b Ch6_Keypad Up With 1.5cm Gap_20070412

DUT: 731703

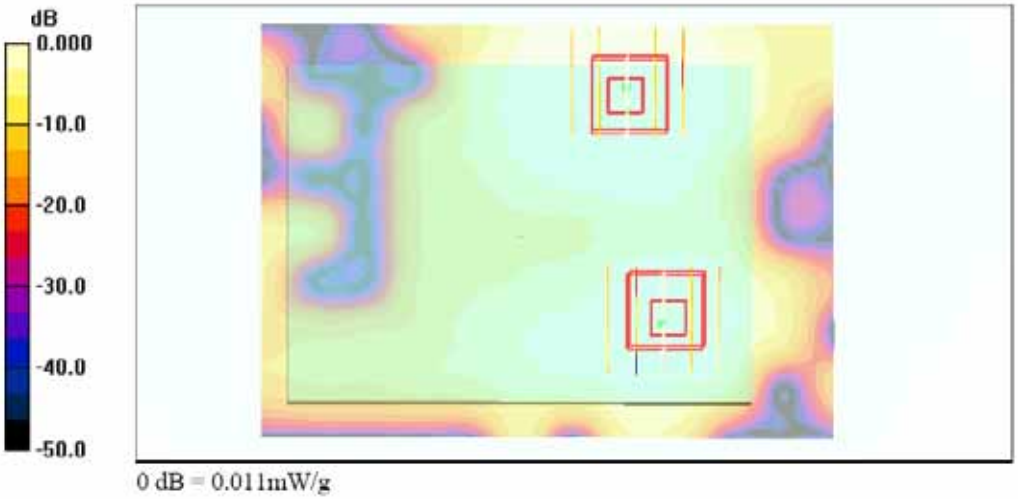
Communication System: 802.11b ; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: MSL_2450 Medium parameters used: f = 2437 MHz; σ = 1.95 mho/m; ε_r = 53.4; ρ = 1000 kg/m^3
Ambient Temperature : 22.1 ℃; Liquid Temperature : 22.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.11, 4.11, 4.11); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch6/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.015 mW/g

Ch6/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0.790 V/m; Power Drift = -0.128 dB
Peak SAR (extrapolated) = 0.028 W/kg
SAR(1 g) = 0.014 mW/g; SAR(10 g) = 0.00791 mW/g
Maximum value of SAR (measured) = 0.015 mW/g

Ch6/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0.790 V/m; Power Drift = -0.128 dB
Peak SAR (extrapolated) = 0.044 W/kg
SAR(1 g) = 0.011 mW/g; SAR(10 g) = 0.00451 mW/g
Maximum value of SAR (measured) = 0.011 mW/g



0 dB = 0.011mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/30/2007 11:20:40 PM

Body_GSM850 Ch128_Keypad Down With 1.5cm Gap_20070330_GPRS10

DUT: 731703

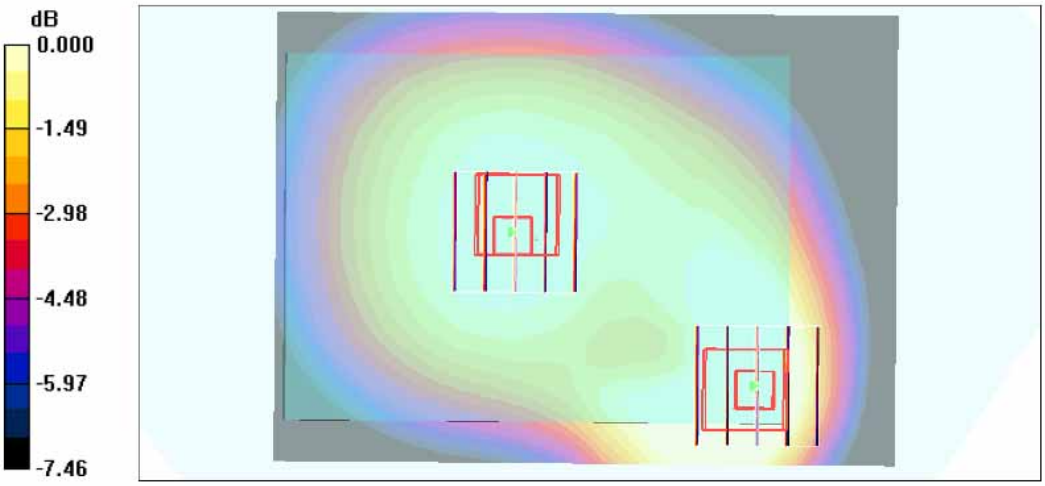
Communication System: GSM850; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: MSL_850 Medium parameters used : f = 824.2 MHz; σ = 0.956 mho/m; ε_r = 54.3; ρ = 1000 kg/m^3
Ambient Temperature : 22.3 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch128/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.417 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.9 V/m; Power Drift = -0.040 dB
Peak SAR (extrapolated) = 0.567 W/kg
SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.252 mW/g
Maximum value of SAR (measured) = 0.411 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.9 V/m; Power Drift = -0.040 dB
Peak SAR (extrapolated) = 0.343 W/kg
SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.221 mW/g
Maximum value of SAR (measured) = 0.293 mW/g



0 dB = 0.293mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 12:09:39 AM

Body_GSM850 Ch128_Keypad Down With 1.5cm Gap_20070330_GPRS10_Bluetooth

DUT: 731703

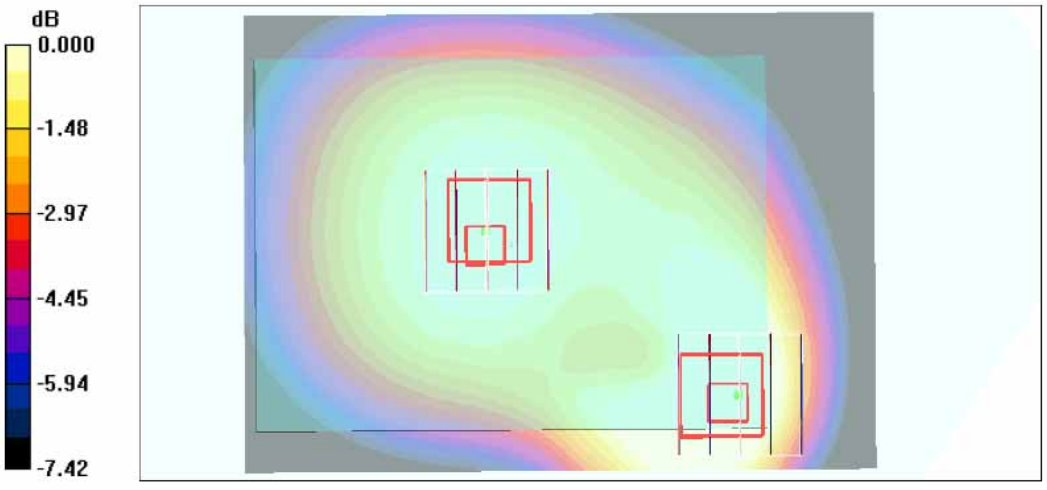
Communication System: GSM850; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: MSL_850 Medium parameters used : f = 824.2 MHz; σ = 0.956 mho/m; ε_r = 54.3; ρ = 1000 kg/m^3
Ambient Temperature : 22.5 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch128/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.415 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.9 V/m; Power Drift = -0.010 dB
Peak SAR (extrapolated) = 0.563 W/kg
SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.251 mW/g
Maximum value of SAR (measured) = 0.409 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.9 V/m; Power Drift = -0.010 dB
Peak SAR (extrapolated) = 0.340 W/kg
SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.222 mW/g
Maximum value of SAR (measured) = 0.295 mW/g



0 dB = 0.295mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/30/2007 10:58:01 PM

Body_GSM850 Ch189_Keypad Down With 1.5cm Gap_20070330_EDGE10

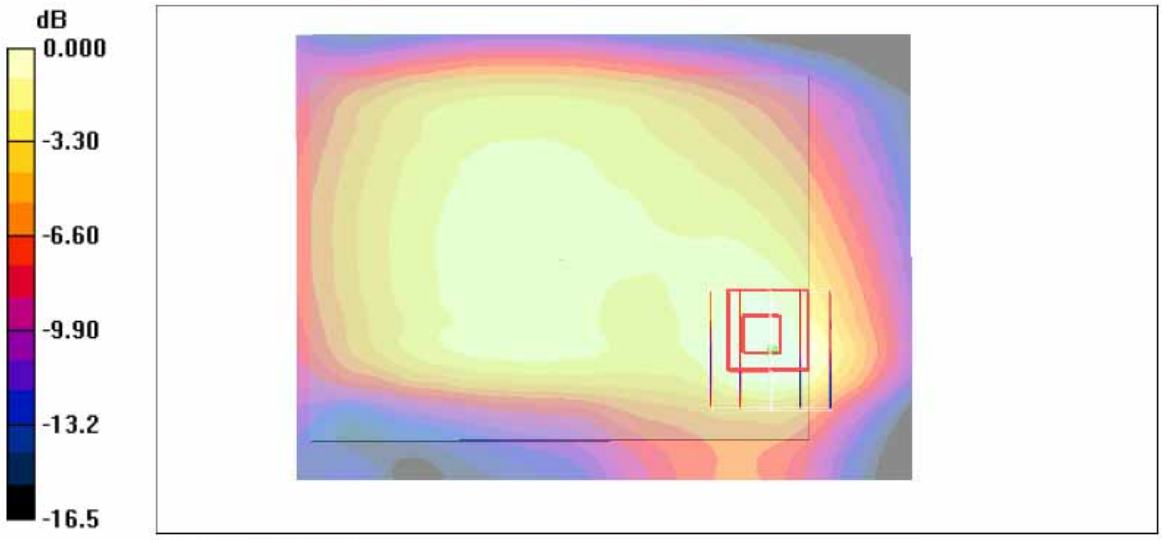
DUT: 731703

Communication System: GSM850; Frequency: 836.4 MHz;Duty Cycle: 1:4
Medium: MSL_850 Medium parameters used : f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Ambient Temperature : 21.7 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch189/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.366 mW/g

Ch189/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.41 V/m; Power Drift = 0.129 dB
Peak SAR (extrapolated) = 0.496 W/kg
SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.175 mW/g
Maximum value of SAR (measured) = 0.319 mW/g



0 dB = 0.319mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 8:16:12 AM

Body_PCS Ch512_Keypad Down With 1.5cm Gap_20070330_GPRS10

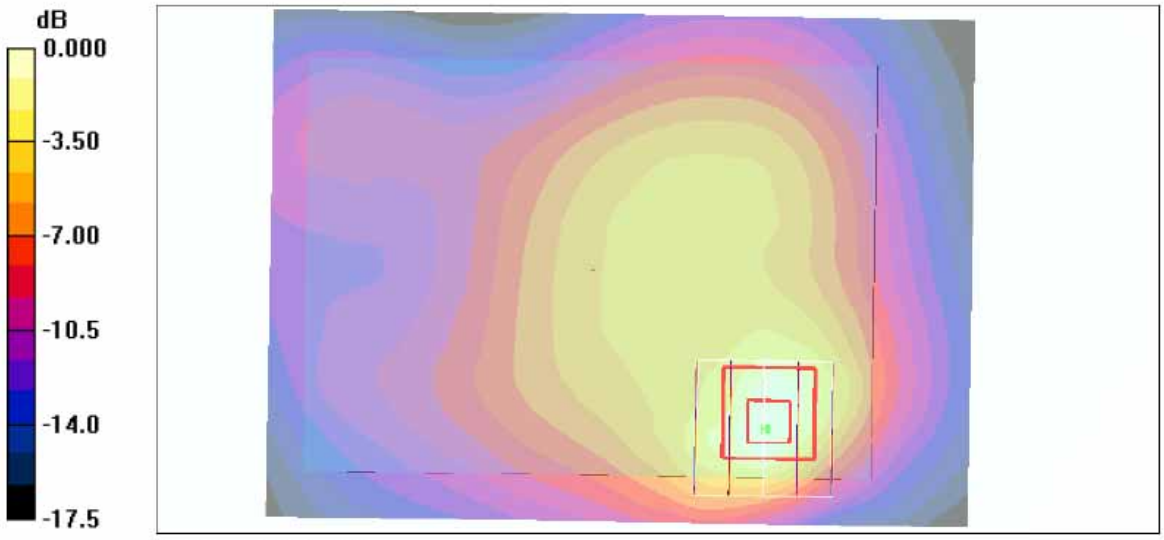
DUT: 731703

Communication System: PCS; Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium: MSL_1900 Medium parameters used : f = 1850.2 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Ambient Temperature : 22.6 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch512/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.423 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.4 V/m; Power Drift = 0.060 dB
Peak SAR (extrapolated) = 0.616 W/kg
SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.210 mW/g
Maximum value of SAR (measured) = 0.430 mW/g



0 dB = 0.430mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 9:01:43 AM

Body_PCS Ch512_Keypad Down With 1.5cm Gap_20070330_GPRS10_Bluetooth

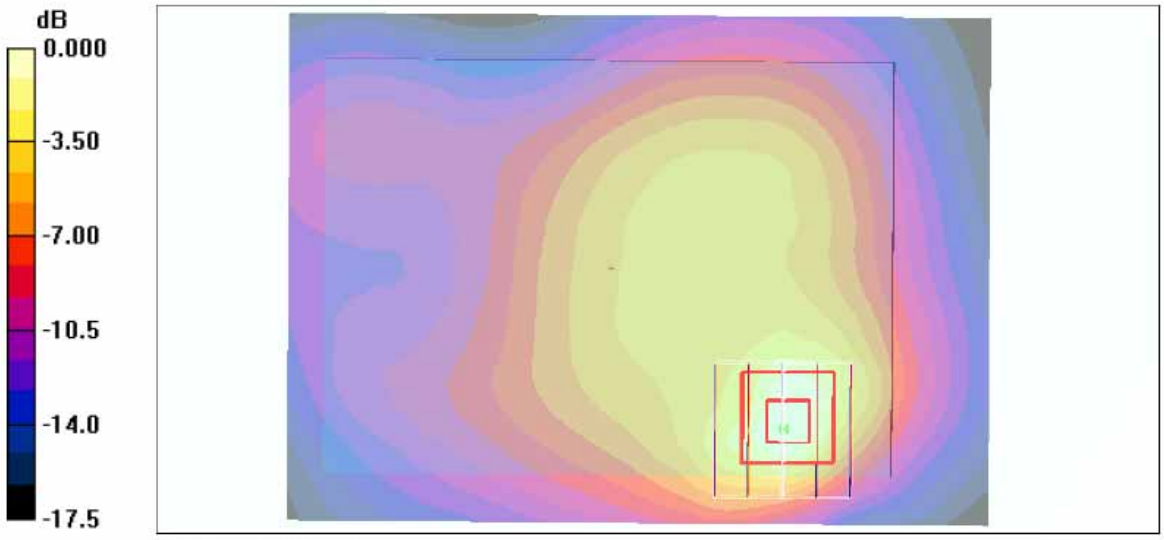
DUT: 731703

Communication System: PCS; Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium: MSL_1900 Medium parameters used : f = 1850.2 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Ambient Temperature : 22.3 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch512/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.423 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.5 V/m; Power Drift = 0.043 dB
Peak SAR (extrapolated) = 0.614 W/kg
SAR(1 g) = 0.382 mW/g; SAR(10 g) = 0.210 mW/g
Maximum value of SAR (measured) = 0.434 mW/g



0 dB = 0.434mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 7:12:41 AM

Body_PCS Ch661_Keypad Down With 1.5cm Gap_20070330_EDGE10

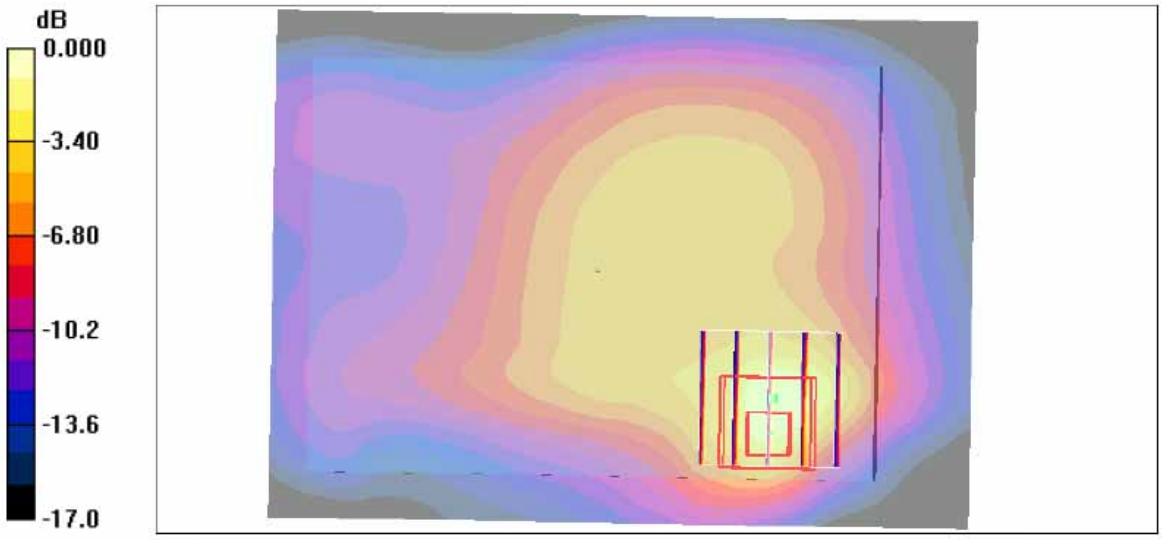
DUT: 731703

Communication System: PCS; Frequency: 1880 MHz;Duty Cycle: 1:4
Medium: MSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Ambient Temperature : 22.5 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch661/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.281 mW/g

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.46 V/m; Power Drift = 0.137 dB
Peak SAR (extrapolated) = 0.506 W/kg
SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.168 mW/g
Maximum value of SAR (measured) = 0.358 mW/g



0 dB = 0.358mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 10:42:21 AM

Body_WCDMA Ch4182_Keypad Down With 1.5cm Gap_20070330_RMC 12.2k

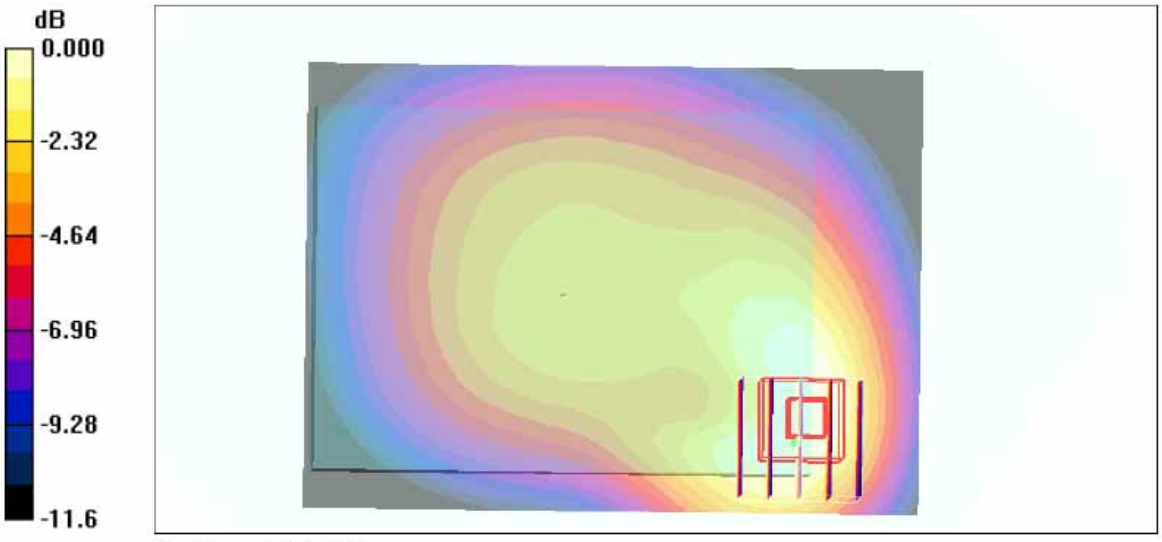
DUT: 731703

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used : f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Ambient Temperature : 22.5 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch4182/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.279 mW/g

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.4 V/m; Power Drift = 0.161 dB
Peak SAR (extrapolated) = 0.360 W/kg
SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.158 mW/g
Maximum value of SAR (measured) = 0.260 mW/g



0 dB = 0.260mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 1:07:29 PM

Body_WCDMA Ch4182_Keypad Down With 1.5cm Gap_20070330_RMC 64k

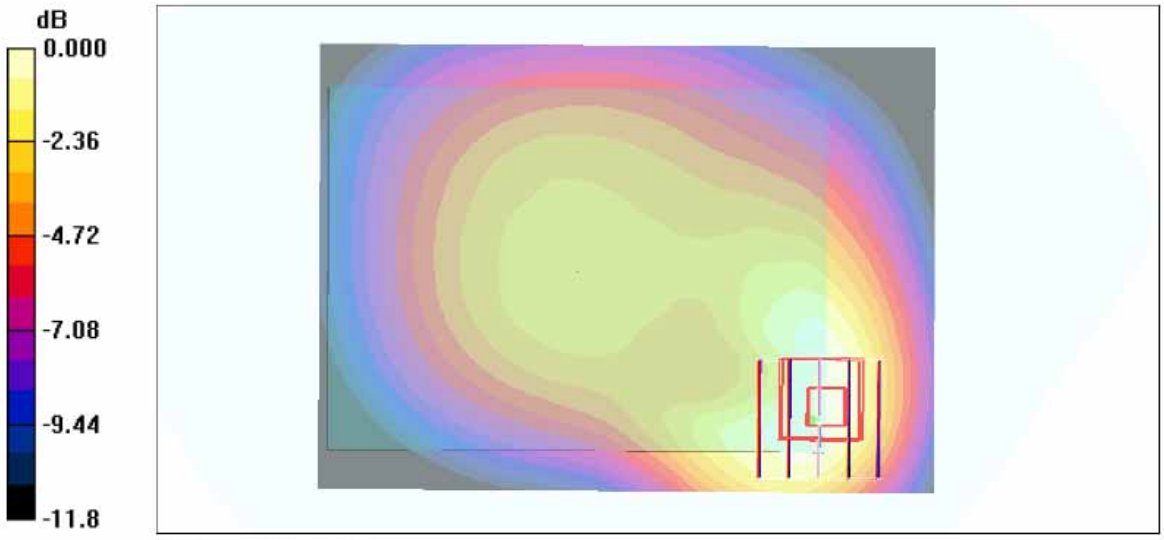
DUT: 731703

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used : f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Ambient Temperature : 22.7 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch4182/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.305 mW/g

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.8 V/m; Power Drift = 0.032 dB
Peak SAR (extrapolated) = 0.397 W/kg
SAR(1 g) = 0.261 mW/g; SAR(10 g) = 0.168 mW/g
Maximum value of SAR (measured) = 0.279 mW/g



0 dB = 0.279mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 8:24:31 PM

Body_WCDMA Ch4182_Keypad Down With 1.5cm Gap_20070330_RMC 64k_Bluetooth

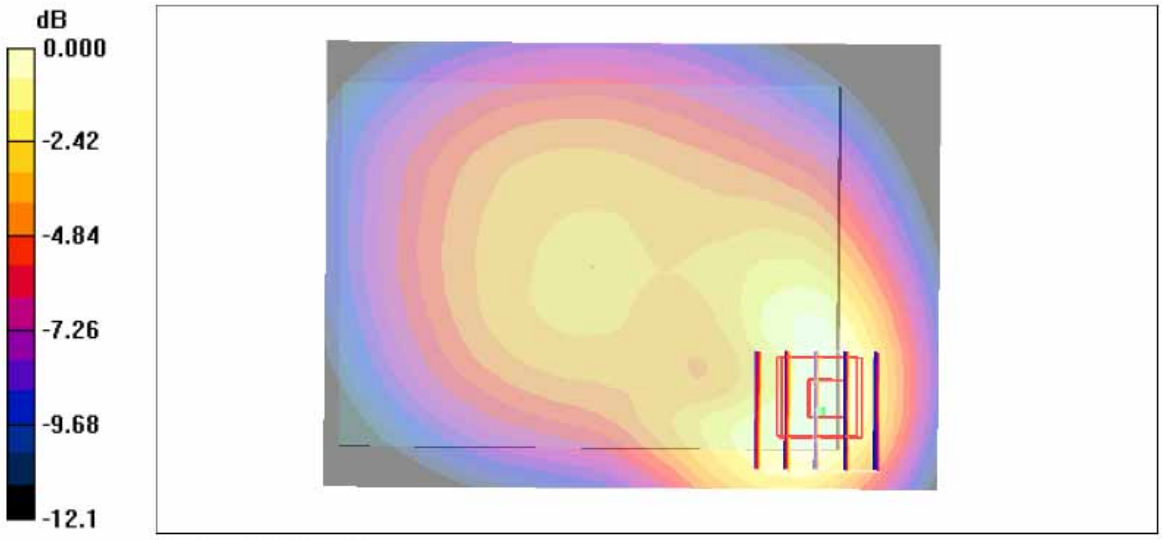
DUT: 731703

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used : f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Ambient Temperature : 22.9 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch4182/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.310 mW/g

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.6 V/m; Power Drift = -0.130 dB
Peak SAR (extrapolated) = 0.408 W/kg
SAR(1 g) = 0.267 mW/g; SAR(10 g) = 0.171 mW/g
Maximum value of SAR (measured) = 0.287 mW/g



0 dB = 0.287mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 5:29:40 PM

Body_WCDMA Ch4182_Keypad Down With 1.5cm Gap_20070330_RMC 144k

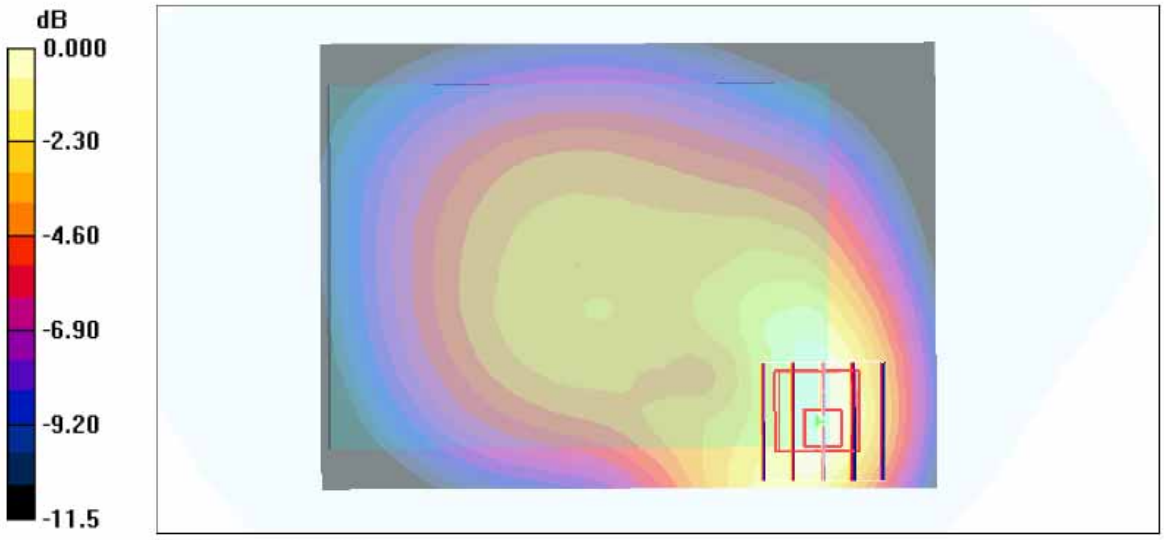
DUT: 731703

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used : f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Ambient Temperature : 22.8 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch4182/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.290 mW/g

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.1 V/m; Power Drift = 0.020 dB
Peak SAR (extrapolated) = 0.392 W/kg
SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.167 mW/g
Maximum value of SAR (measured) = 0.278 mW/g



0 dB = 0.278mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 5:54:03 PM

Body_WCDMA Ch4182_Keypad Down With 1.5cm Gap_20070330_RMC 384k

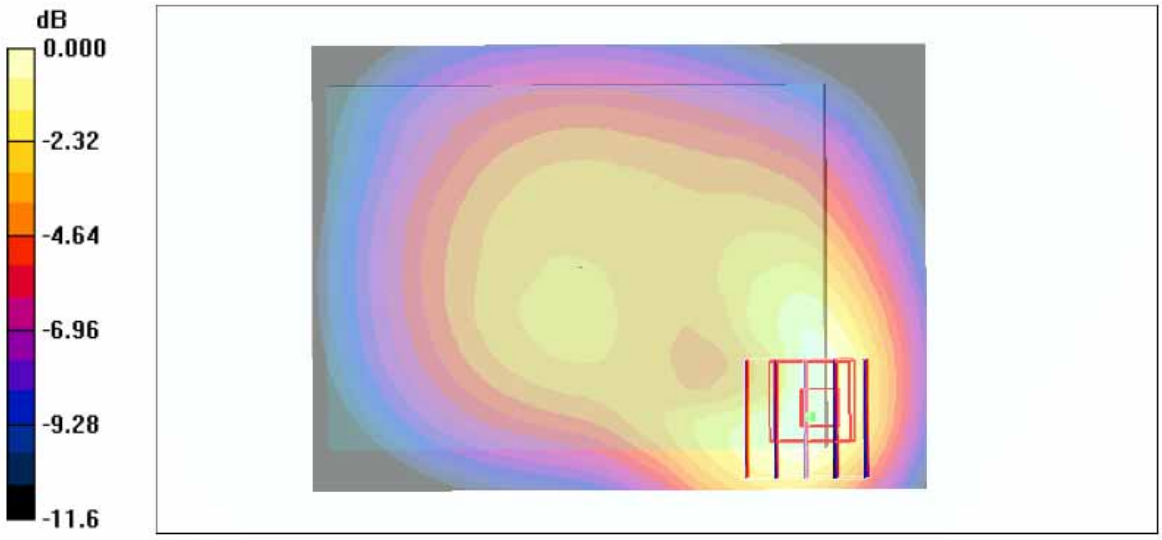
DUT: 731703

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used : f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Ambient Temperature : 22.8 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch4182/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.284 mW/g

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.4 V/m; Power Drift = 0.117 dB
Peak SAR (extrapolated) = 0.381 W/kg
SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.161 mW/g
Maximum value of SAR (measured) = 0.269 mW/g



0 dB = 0.269mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 1:25:22 AM

Body_WCDMA Ch9400_Keypad Down With 1.5cm Gap_20070330_RMC 12.2k

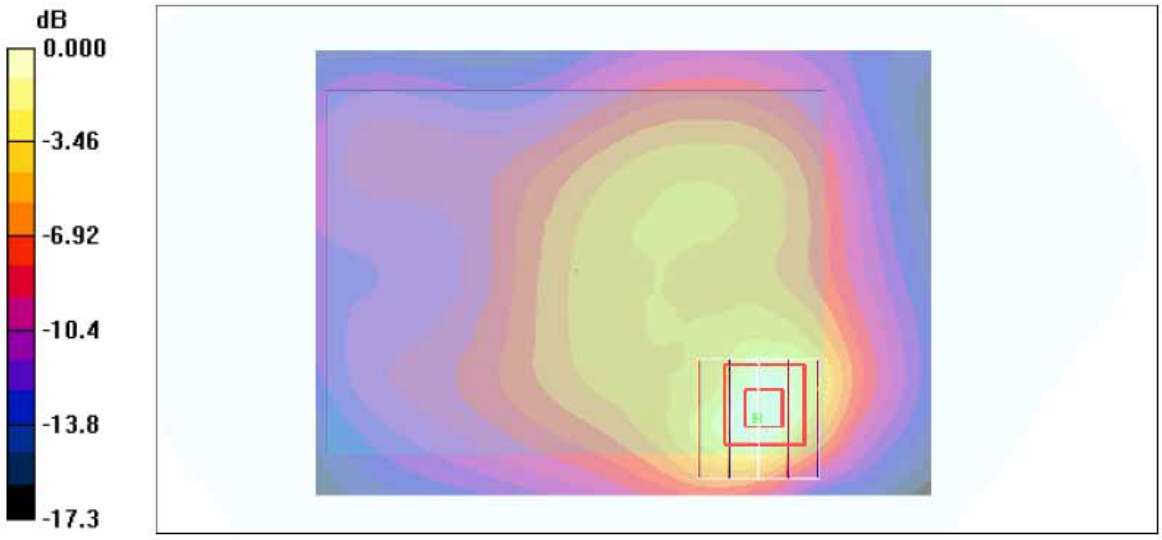
DUT: 731703

Communication System: WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Ambient Temperature : 22.5 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch9400/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.524 mW/g

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.0 V/m; Power Drift = -0.159 dB
Peak SAR (extrapolated) = 0.717 W/kg
SAR(1 g) = 0.442 mW/g; SAR(10 g) = 0.243 mW/g
Maximum value of SAR (measured) = 0.495 mW/g



0 dB = 0.495mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 4:35:48 AM

Body_WCDMA Ch9538_Keypad Down With 1.5cm Gap_20070330_RMC 64k

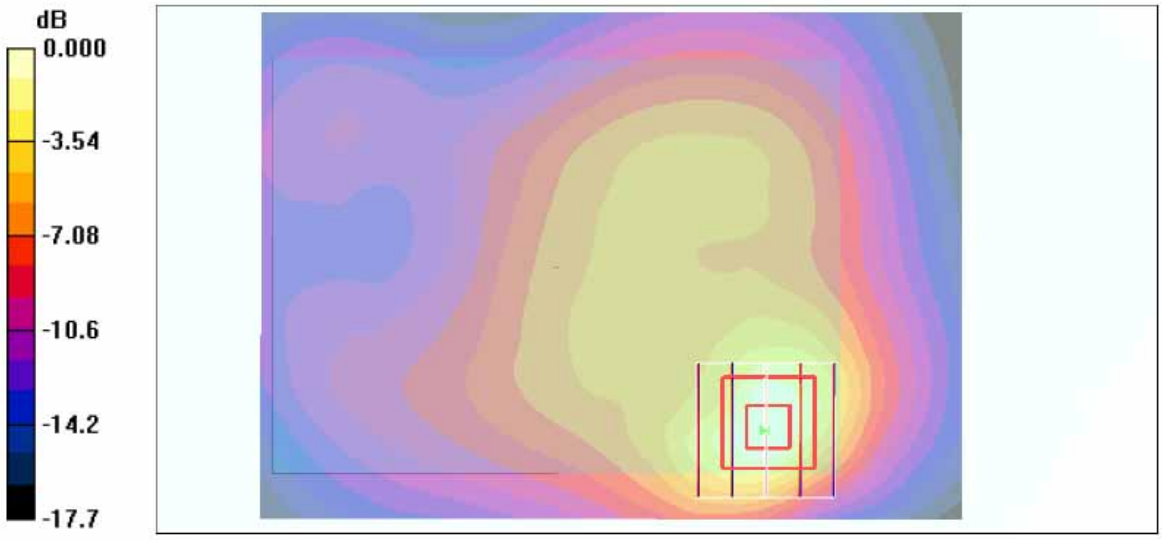
DUT: 731703

Communication System: WCDMA; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1908 MHz; σ = 1.56 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Ambient Temperature : 22.1 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch9538/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.566 mW/g

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.4 V/m; Power Drift = -0.157 dB
Peak SAR (extrapolated) = 0.788 W/kg
SAR(1 g) = 0.479 mW/g; SAR(10 g) = 0.260 mW/g
Maximum value of SAR (measured) = 0.548 mW/g



0 dB = 0.548mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 5:00:38 AM

Body_WCDMA Ch9538_Keypad Down With 1.5cm Gap_20070330_RMC 64k_Bluetooth

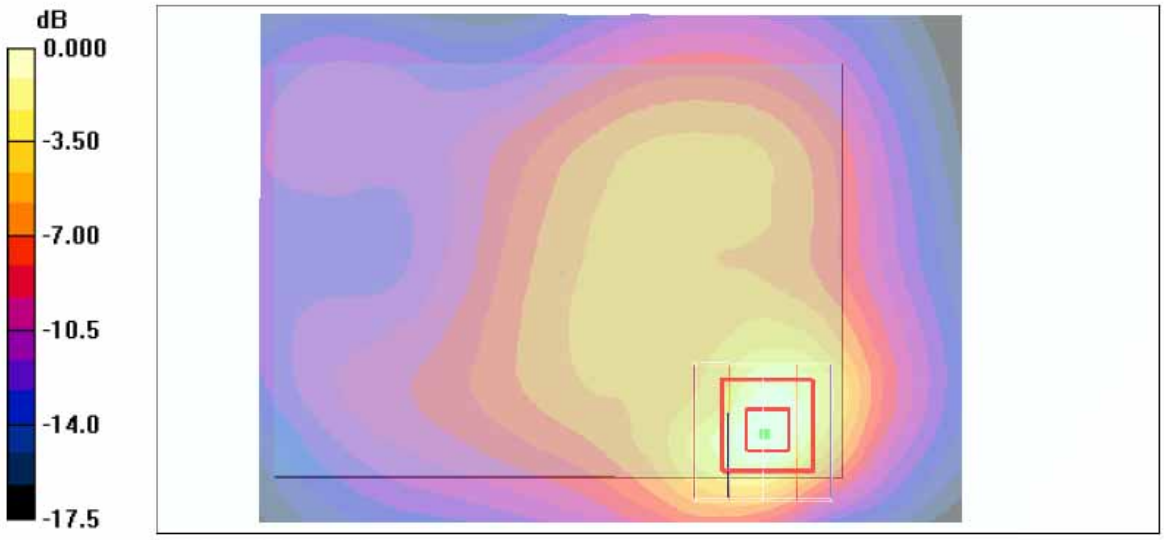
DUT: 731703

Communication System: WCDMA; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1908 MHz; σ = 1.56 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Ambient Temperature : 22.3 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch9538/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.563 mW/g

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.3 V/m; Power Drift = 0.016 dB
Peak SAR (extrapolated) = 0.786 W/kg
SAR(1 g) = 0.482 mW/g; SAR(10 g) = 0.263 mW/g
Maximum value of SAR (measured) = 0.548 mW/g



0 dB = 0.548mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 2:56:53 AM

Body_WCDMA Ch9400_Keypad Down With 1.5cm Gap_20070330_RMC 144k

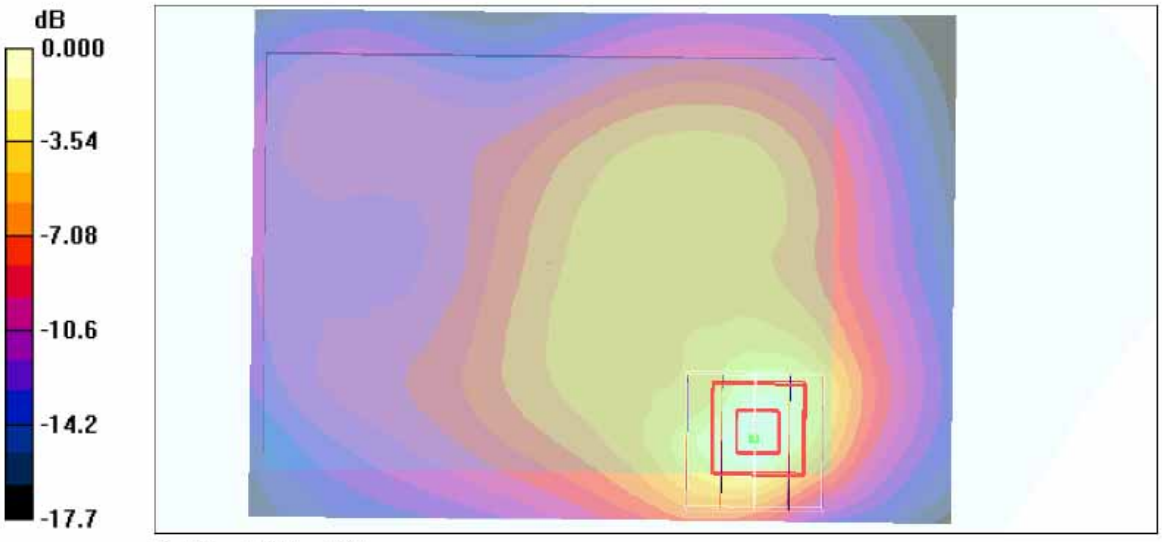
DUT: 731703

Communication System: WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Ambient Temperature : 22.2 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch9400/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.542 mW/g

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.3 V/m; Power Drift = -0.040 dB
Peak SAR (extrapolated) = 0.729 W/kg
SAR(1 g) = 0.451 mW/g; SAR(10 g) = 0.248 mW/g
Maximum value of SAR (measured) = 0.511 mW/g



0 dB = 0.511mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 3:17:43 AM

Body_WCDMA Ch9400_Keypad Down With 1.5cm Gap_20070330_RMC 384k

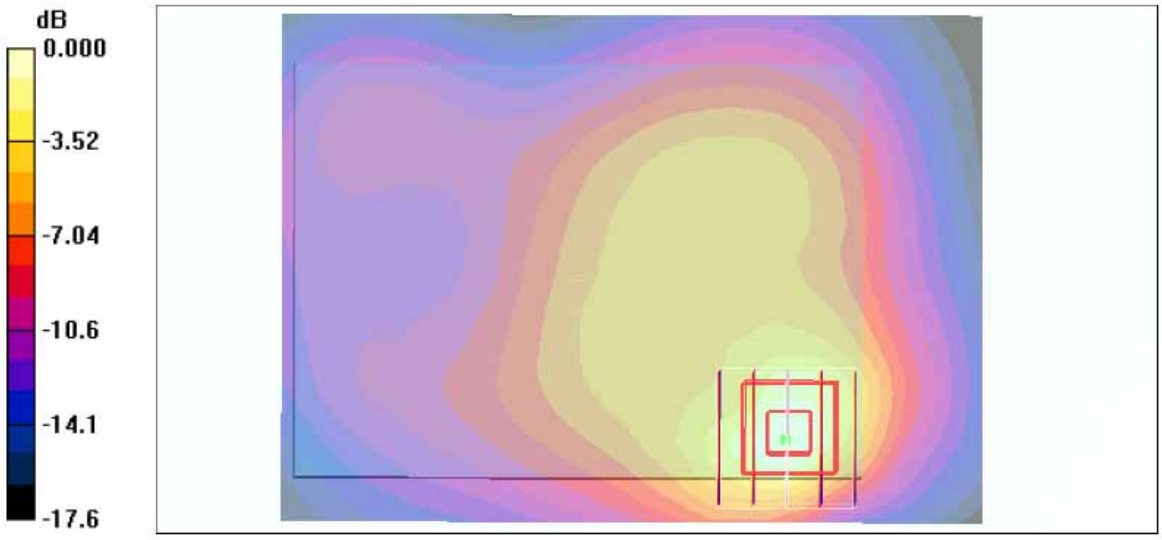
DUT: 731703

Communication System: WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Ambient Temperature : 21.9 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch9400/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.541 mW/g

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.4 V/m; Power Drift = -0.113 dB
Peak SAR (extrapolated) = 0.730 W/kg
SAR(1 g) = 0.452 mW/g; SAR(10 g) = 0.247 mW/g
Maximum value of SAR (measured) = 0.514 mW/g



0 dB = 0.514mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 6:47:20 PM

Body_WCDMA Ch4182_Keypad Down With 1.5cm Gap_20070330_RMC 12.2k+HSDPA

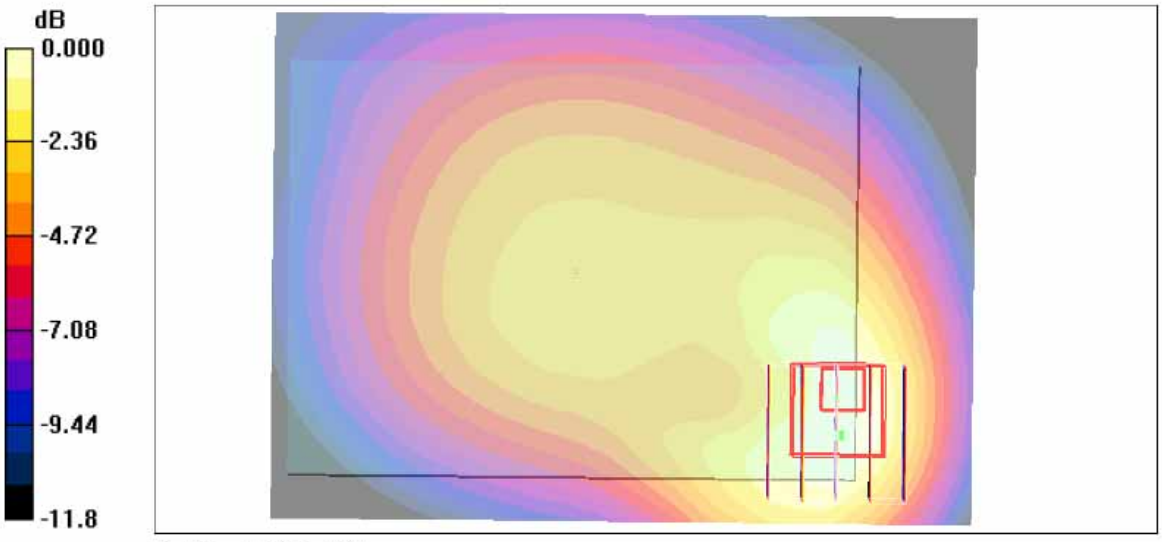
DUT: 731703

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used : f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Ambient Temperature : 22.7 ℃; Liquid Temperature : 21.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch4182/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.270 mW/g

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.5 V/m; Power Drift = 0.019 dB
Peak SAR (extrapolated) = 0.356 W/kg
SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.151 mW/g
Maximum value of SAR (measured) = 0.256 mW/g



0 dB = 0.256mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 3/31/2007 5:24:20 AM

Body_WCDMA Ch9400_Keypad Down With 1.5cm Gap_20070330_RMC12.2k+HSDPA

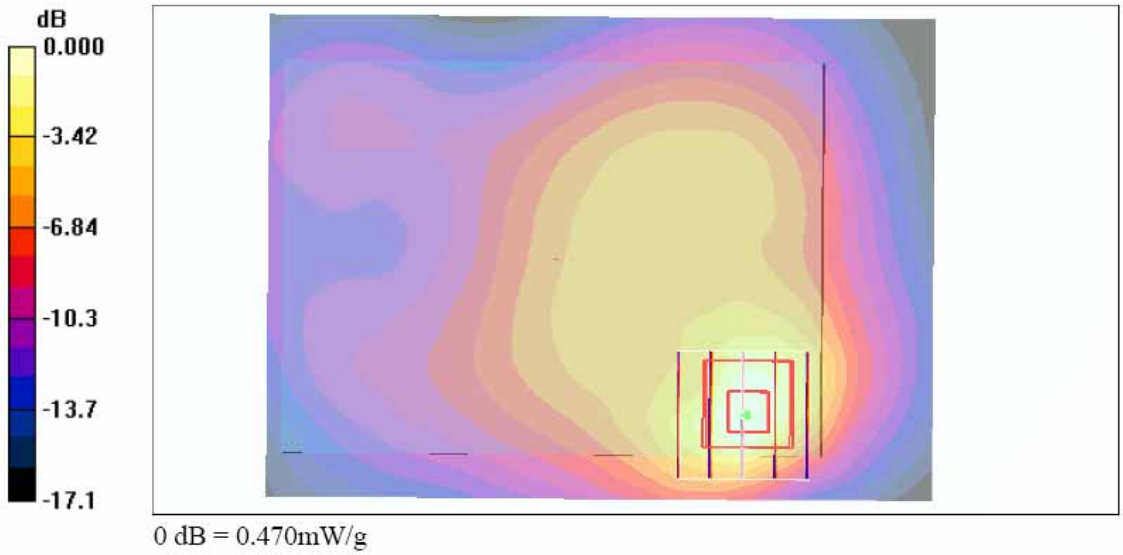
DUT: 731703

Communication System: WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1880 MHz; σ = 1.51 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Ambient Temperature : 22.5 ℃; Liquid Temperature : 21.2 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch9400/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.483 mW/g

Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.0 V/m; Power Drift = -0.048 dB
Peak SAR (extrapolated) = 0.669 W/kg
SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.226 mW/g
Maximum value of SAR (measured) = 0.470 mW/g



0 dB = 0.470mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/18/2007 8:19:10 PM

Body_GSM850 Ch128_Keypad Down With 1.5cm Gap_20070418_without VT Camera_GPRS10

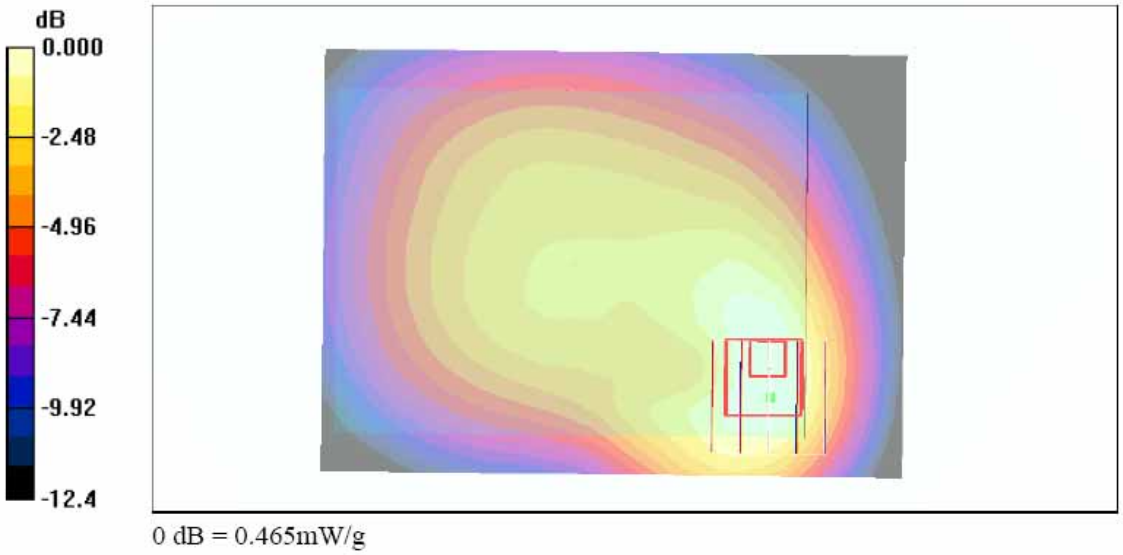
DUT: 731703

Communication System: GSM850; Frequency: 824.2 MHz;Duty Cycle: 1:4
Medium: MSL_850 Medium parameters used : f = 824.2 MHz; σ = 0.956 mho/m; ε_r = 54.3; ρ = 1000 kg/m^3
Ambient Temperature : 23.3 ℃; Liquid Temperature : 22.1 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch128/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.460 mW/g

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.8 V/m; Power Drift = -0.107 dB
Peak SAR (extrapolated) = 0.644 W/kg
SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.277 mW/g
Maximum value of SAR (measured) = 0.465 mW/g



0 dB = 0.465mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/18/2007 10:43:37 PM

Body_PCS Ch512_Keypad Down With 1.5cm Gap_20070418_without VT Camera_GPRS10_BT On

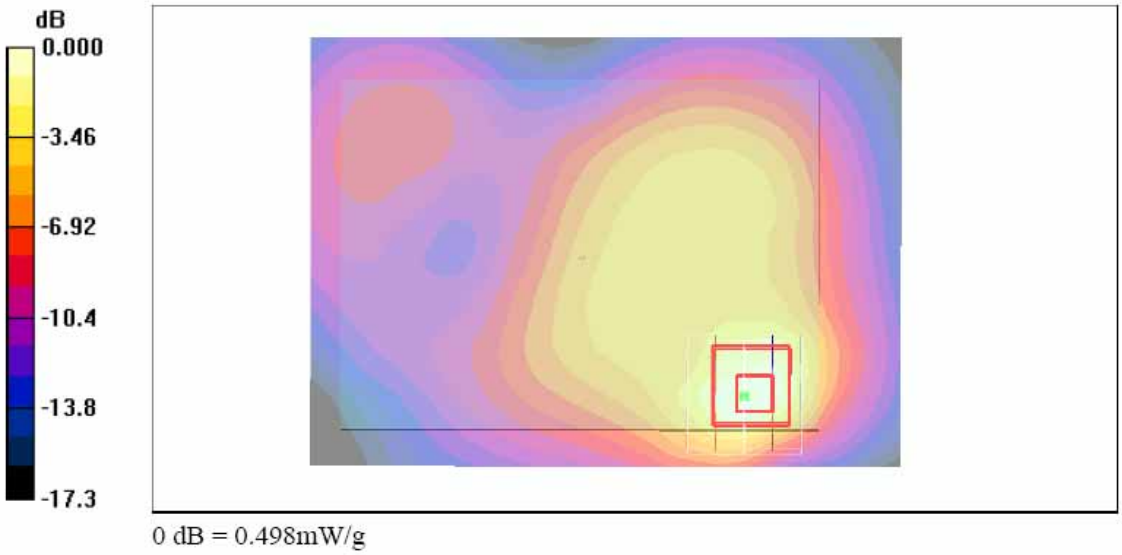
DUT: 731703

Communication System: PCS; Frequency: 1850.2 MHz;Duty Cycle: 1:4
Medium: MSL_1900 Medium parameters used : f = 1850.2 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Ambient Temperature : 22.9 ℃; Liquid Temperature : 21.7 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch512/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.535 mW/g

Ch512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.8 V/m; Power Drift = -0.158 dB
Peak SAR (extrapolated) = 0.726 W/kg
SAR(1 g) = 0.444 mW/g; SAR(10 g) = 0.242 mW/g
Maximum value of SAR (measured) = 0.498 mW/g



0 dB = 0.498mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/18/2007 9:35:35 PM

Body_WCDMA Ch4182_Keypad Down With 1.5cm Gap_20070418_without VT Camera_RMC 64k_BT On

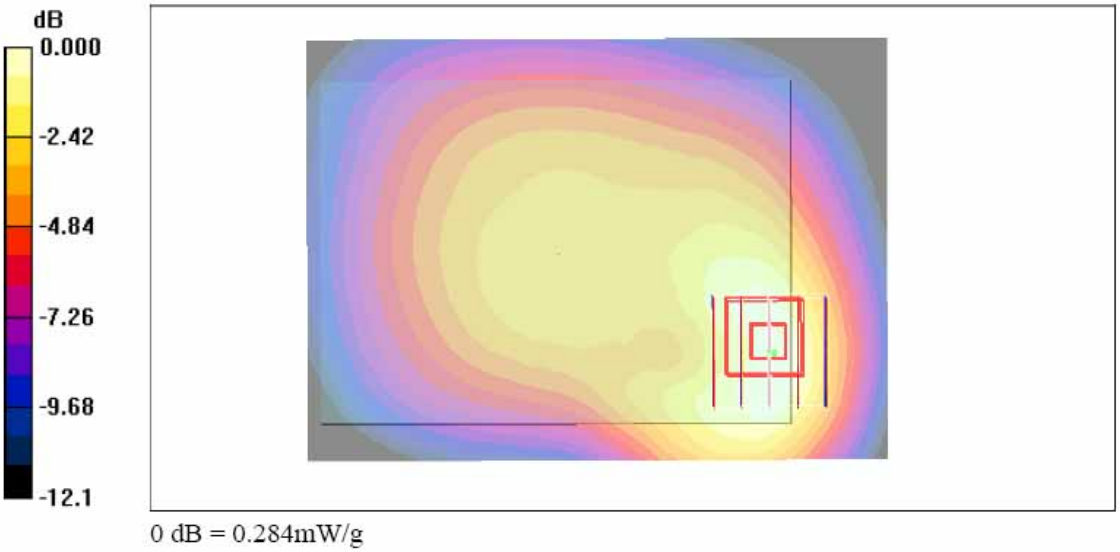
DUT: 731703

Communication System: WCDMA; Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: MSL_850 Medium parameters used : f = 836.4 MHz; σ = 0.969 mho/m; ε_r = 54.1; ρ = 1000 kg/m^3
Ambient Temperature : 22.9 ℃; Liquid Temperature : 22.1 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.33, 6.33, 6.33); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-A; Type: QD 000 P40 C; Serial: TP-1303
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch4182/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.291 mW/g

Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.0 V/m; Power Drift = 0.049 dB
Peak SAR (extrapolated) = 0.395 W/kg
SAR(1 g) = 0.261 mW/g; SAR(10 g) = 0.169 mW/g
Maximum value of SAR (measured) = 0.284 mW/g



0 dB = 0.284mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/18/2007 10:06:47 PM

Body_WCDMA Ch9538_Keypad Down With 1.5cm Gap_20070418_without VT Camera_RMC 64k_BT On

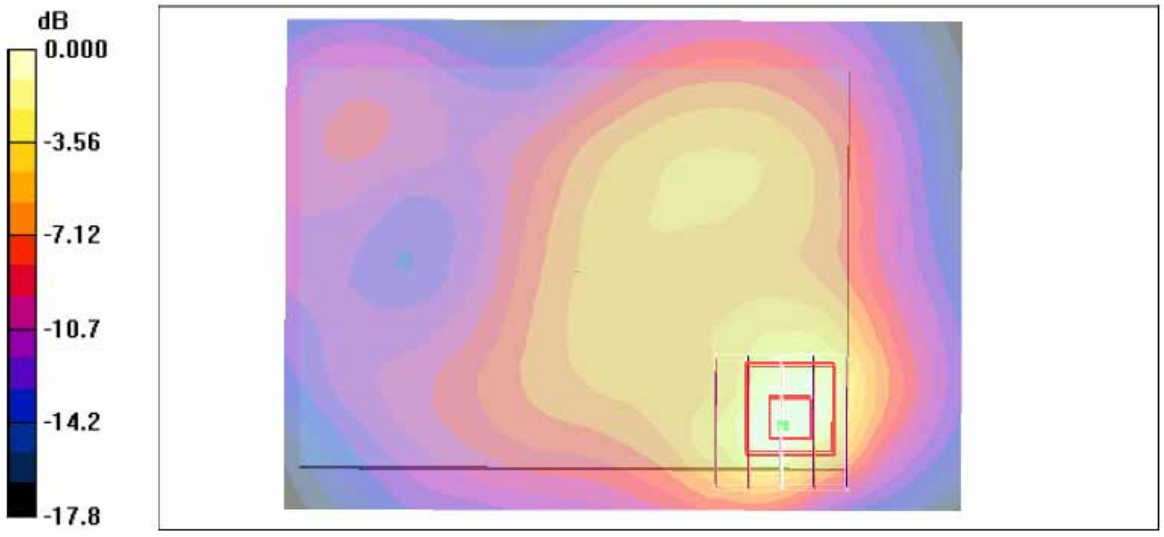
DUT: 731703

Communication System: WCDMA; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium: MSL_1900 Medium parameters used: f = 1908 MHz; σ = 1.56 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Ambient Temperature：22.9 ℃; Liquid Temperature：21.7 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.67, 4.67, 4.67); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch9538/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.614 mW/g

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.4 V/m; Power Drift = -0.140 dB
Peak SAR (extrapolated) = 0.860 W/kg
SAR(1 g) = 0.520 mW/g; SAR(10 g) = 0.283 mW/g
Maximum value of SAR (measured) = 0.582 mW/g



0 dB = 0.582mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/12/2007 2:08:48 PM

Body_802.11b Ch11_Keypad Down With 1.5cm Gap_20070412

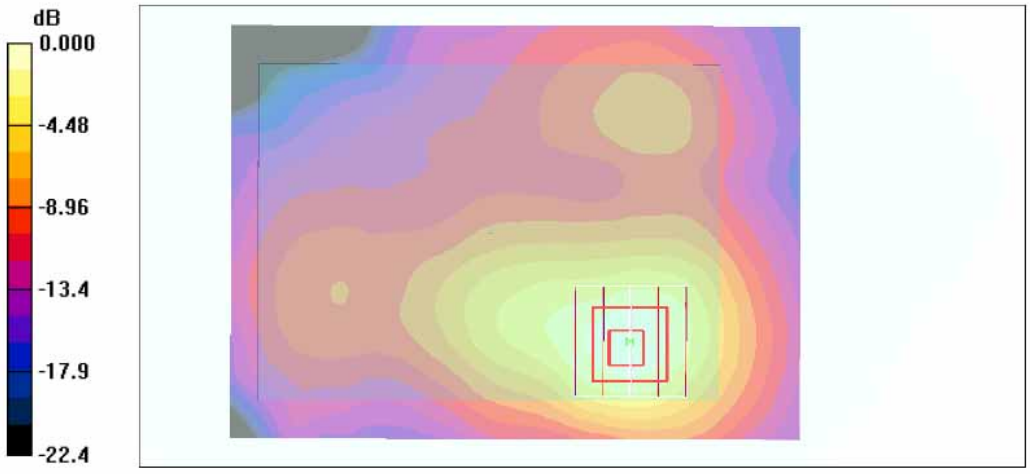
DUT: 731703

Communication System: 802.11b ; Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: MSL_2450 Medium parameters used: f = 2462 MHz; σ = 1.98 mho/m; ε_r = 53.3; ρ = 1000 kg/m^3
Ambient Temperature：22.2 ℃; Liquid Temperature：22.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.11, 4.11, 4.11); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch11/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.090 mW/g

Ch11/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.65 V/m; Power Drift = -0.032 dB
Peak SAR (extrapolated) = 0.192 W/kg
SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.044 mW/g
Maximum value of SAR (measured) = 0.092 mW/g



0 dB = 0.092mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/12/2007 2:29:31 PM

Body_802.11b Ch11_Keypad Down With 1.5cm Gap_20070412_Bluetooth

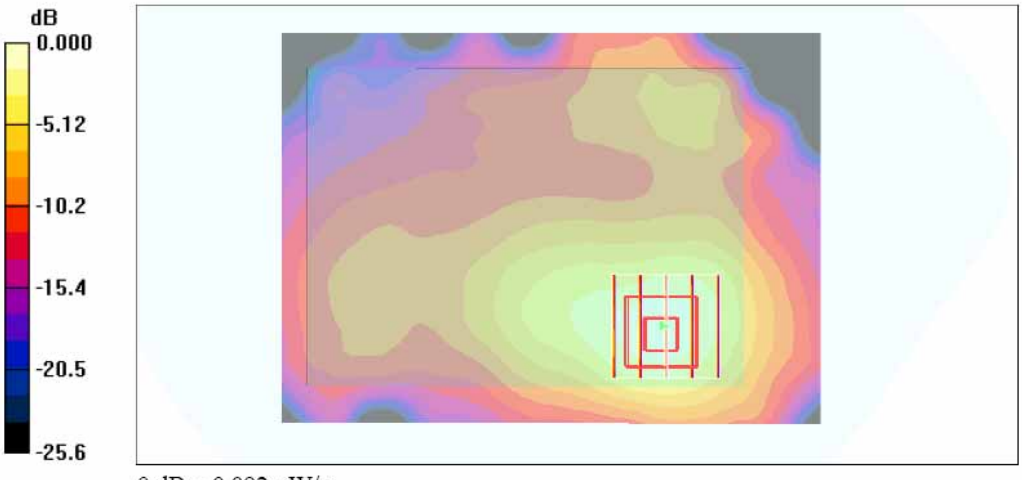
DUT: 731703

Communication System: 802.11b ; Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: MSL_2450 Medium parameters used: f = 2462 MHz; σ = 1.98 mho/m; ε_r = 53.3; ρ = 1000 kg/m^3
Ambient Temperature：22.3 ℃; Liquid Temperature：22.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.11, 4.11, 4.11); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch11/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.090 mW/g

Ch11/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.65 V/m; Power Drift = -0.108 dB
Peak SAR (extrapolated) = 0.196 W/kg
SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.045 mW/g
Maximum value of SAR (measured) = 0.092 mW/g



0 dB = 0.092mW/g

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Test Laboratory: Sporton International Inc. SAR Testing Lab Date/Time: 4/12/2007 12:54:16 PM

Body_802.11g Ch6_Keypad Down With 1.5cm Gap_20070412

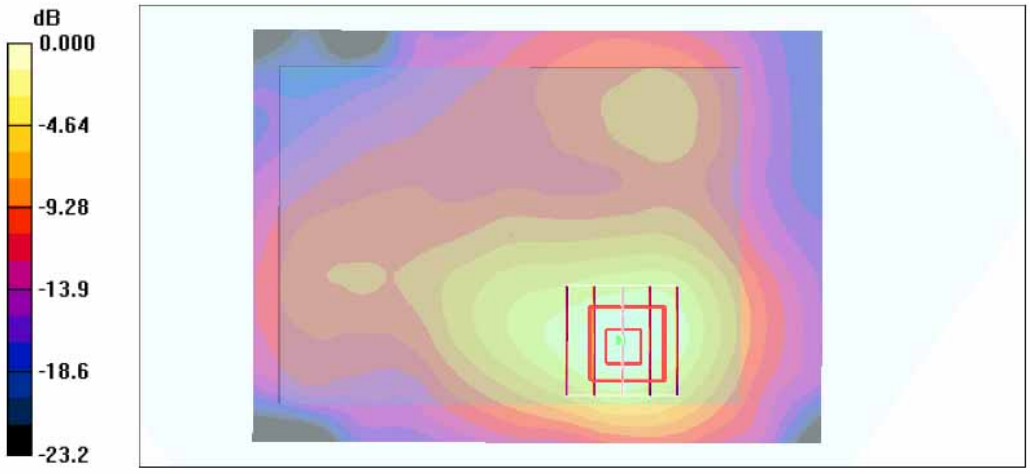
DUT: 731703

Communication System: 802.11g; Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: MSL_2450 Medium parameters used: f = 2437 MHz; σ = 1.95 mho/m; ε_r = 53.4; ρ = 1000 kg/m^3
Ambient Temperature : 22.0 ℃; Liquid Temperature : 22.0 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(4.11, 4.11, 4.11); Calibrated: 9/19/2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn577; Calibrated: 11/21/2006
- Phantom: SAM-B; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Ch6/Area Scan (81x111x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.079 mW/g

Ch6/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.52 V/m; Power Drift = -0.001 dB
Peak SAR (extrapolated) = 0.157 W/kg
SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.037 mW/g
Maximum value of SAR (measured) = 0.078 mW/g



0 dB = 0.078mW/g

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