Verykool USA INC.

Mobile Phone

Model: s353 Serial Model: NA

Nov 7th, 2013
Report No.: 13070501-FCC-H
(This report supersedes NONE)



Modifications made to the product: None

This Test Report is Issued Under the Authority of:

Chris You
Chris You
Test Engineer

This Test Report is Issued Under the Authority of:

Alex Liu
Technical Manager

This test report may be reproduced in full only.

All Test Data Presented in this report is only applicable to presented Test sample.

SIEMIC, INC.
Accessing global mar

| Serial# | 13070501-FCC-H | Issue Date | Nov 7th, 2013 | Page | 2 of 125 | www.siemic.com

Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to <u>testing</u> and <u>certification</u>, SIEMIC provides initial design reviews and <u>compliance</u> <u>management</u> through out a project. Our extensive experience with <u>China</u>, <u>Asia Pacific</u>, <u>North America</u>, <u>European</u>, <u>and international</u> compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the <u>global markets</u>.

SIEMIC (Shenzhen-China) Laboratories Accreditations for Conformity Assessment

Country/Region	Scope	
USA	EMC , RF/Wireless , Telecom	
Canada	EMC, RF/Wireless , Telecom	
Taiwan	EMC, RF, Telecom , Safety	
Hong Kong	RF/Wireless ,Telecom	
Australia	EMC, RF, Telecom, Safety	
Korea	EMI, EMS, RF, Telecom, Safety	
Japan	EMI, RF/Wireless, Telecom	
Singapore	EMC, RF, Telecom	
Europe	EMC, RF, Telecom , Safety	



Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 3 of 125 www.siemic.com

This page has been left blank intentionally.



Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 4 of 125 www.siemic.com

CONTENTS

1	EXECUTIVE SUMMARY & EUT INFORMATION	6
2	TECHNICAL DETAILS	7
3	INTRODUCTION	8
4	SAR MEASUREMENT SETUP	9
5	ANSI/IEEE C95.1 – 1999 RF EXPOSURE LIMIT	20
6	SYSTEM AND LIQUID VALIDATION	21
7	UNCERTAINTY ASSESSMENT	29
8	TEST INSTRUMENT	32
9	OUTPUT POWER VERIFICATION	33
10	SAR TEST RESULTS	38
11	SAR MEASUREMENT REFERENCES	4 4
ANN	EX A CALIBRATION REPORTS	88
	EX B SAR SYSTEM PHOTOGRAPHS	
	EX C SETUP PHOTOGRAPHS	
	EV D. ELIT DUOTOGDADUS	



Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 5 of 125 www.siemic.com

This page has been left blank intentionally.

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 6 of 125 www.siemic.com

1 Executive Summary & EUT information

The purpose of this test programmed was to demonstrate compliance of the Verykool USA INC. Model: S353 against the current Stipulated Standards. The Mobile Phone has demonstrated compliance with the C95.1, IEEE 1528, IEC62209-2, RSS-102 Issue 4 and Safety Code 6. The test has demonstrated that this unit complies with stipulated standards.

EUT Information			
EUT Description	Mobile Phone		
Model No	s353		
Input Power	Li-ion Battery Model: W97135A4/A5 Charging Voltage:3.7V , 1300mAh Charge Cut-off Voltage: 4.2 V		
Maximum Conducted Output Power to Antenna	Cellular 850(Class 4): 31.61dBm PCS1900 (Class 1):29.53dBm WCDMA Band II (Class 3): 22.12dBm WCDMA Band V (Class 3): 22.49dBm		
Highest Reported SAR Level(s)	1.18 W/Kg 1g Head Tissue 1.42 W/Kg 1g Body Tissue		
Classification Per Stipulated Test Standard	Mobile Device , Class B, No DTM/Hotspot Mode		
Multi-SIM	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time.		
Co-located TX	WWAN can transmit simultaneously with Bluetooth WIFI cannot transmit simultaneously with Bluetooth WWAN can transmit simultaneously with WiFi		
Antenna Separation distances	7.4cm - WWAN antenna-to-WIFI/Bluetooth antenna		
Antenna Type(s)	PIFA Antenna(WWAN)		
Accessory	Earphone		

5	Highest Reported SAR (W/kg)		
Equipment Class	Head	Body-Worn	
WWAN/PCB	1.18	1.42	
Max Simultaneous sum SAR	1.56		



Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 7 of 125 www.siemic.com

2 TECHNICAL DETAILS

	Z TECHNICAL DETAILS
Purpose	Compliance testing of Mobile Phone model s353 with stipulated standard
Applicant / Client	Verykool USA INC. 3636 Nobel Drive, Suite 325, San Diego, CA 92122
Manufacturer	Wingtech Group 6F G Area Beijing road east 668,high-tach king world, Wingtech Group, Shanghai, China 200001
Laboratory performing the tests	SIEMIC(Shenzhen-China) Laboratories Zone A,Floor 1,Building 2,Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen 518108, Guangdong, P.R.C. Tel: +(86) 0755-26014629 VIP Line:950-4038-0435
Test report reference number	13070501-FCC-H
Date EUT received	Oct 27th, 2013
Standard applied	See Page 9
Dates of test (from – to)	Nov 4th, 2013~ Nov 5th, 2013
No of Units:	1
Equipment Category:	PCE
Trade Name:	Verykool
Model Name:	s353
RF Operating Frequency (ies)	GSM850: 824.2 ~ 848.8 MHz(TX) / 869.2 ~ 893.8 MHz(RX) GSM1900: 1850.2 ~ 1909.8 MHz(TX) / 1930.2 ~ 1989.8 MHz(RX) WCDMA Band II: 1852.4 ~ 1907.6 MHz(TX) / 1932.4 ~ 1987.6 MHz(RX) WCDMA Band V: 826.4 ~ 846.6 MHz(TX) / 871.4 ~ 891.6 MHz(RX) BT:2402~ 2480MHz(TX/RX) WiFi (802.11b/g):2412~2462MHz(TX/RX)
Modulation:	GSM / GPRS : GMSK WCDMA:QPSK Wifi: DSSS, OFDM Bluetooth: GFSK, π /4-DQPSK, 8DPSK BLE:GFSK
GPRS Multi-slot class	8/10/12
FCC ID	WA6s353

3 INTRODUCTION

Introduction

This measurement report shows compliance of the EUT with IEEE1528:2003, IEC62209-2 & RSS 102 Issue 4.0.

The test procedures, as described in ANSI C95.1 – 1999 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [2], and ANSI C95.3 – 2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields [3], were employed.

SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (p).

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

SAR is expressed in units of watts per kilogram (W/kg). SAR can be related to the electric field at a point by

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

where:

 σ = conductivity of the tissue (S/m) ρ = mass density of the tissue (kg/m3) E = rms electric field strength (V/m)

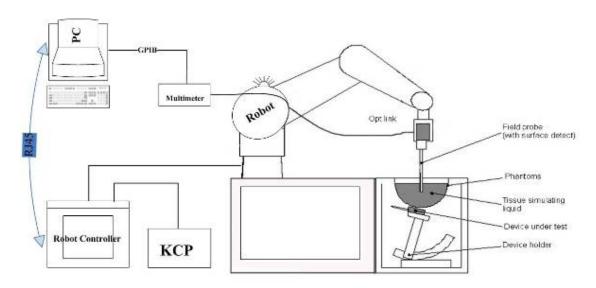
4 SAR Measurement Setup

Dosimetric Assessment System

These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 850 mm), which positions the probes with a positional repeatability of better than \pm 0.02 mm. Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines to the data acquisition unit.

The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe has been calibrated according to the procedure described in SAR standard with accuracy of better than ±10%. The spherical isotropy was evaluated with the procedure described in SAR starndard and found to be better than ±0.25 dB. The phantom used was the SAM Phantom as described in FCC supplement C, IEEE P1528 and CENELEC EN62209-1.

Measurement System Diagram



The OPENSAR system for performing compliance tests consist of the following items:

- 1. A standard high precision 6-axis robot (KUKA) with controller and software.
- 2. KUKA Control Panel (KCP).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- 4. The functions of the PC plug-in card are to perform the time critical task such as signal filtering, surveillance of the robot operation fast movement interrupts.

- 5. A computer operating Windows XP.
- 6. OPENSAR software.
- 7. Remote control with teaches pendant and additional circuitry for robot safety such as warning lamps, etc.
- 8. The SAM phantom enabling testing left-hand right-hand and body usage.
- 9. The Position device for handheld EUT.
- 10. Tissue simulating liquid mixed according to the given recipes (see Application Note).
- 11. System validation dipoles to validate the proper functioning of the system.

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 11 of 125 www.siemic.com

EP100 Probe





Construction Symmetrical design with triangular Core. Built-in shielding against static charges Calibration in air from 100 MHz to 2.5 GHz. In brain and muscle simulating tissue at frequencies from 800 to 6000 MHz (accuracy of 8%).

Frequency 100 MHz to 6 GHz;

Linearity; 0.25 dB (100 MHz to 6 GHz),

Directivity: 0.25 dB in brain tissue (rotation around probe axis) 0.5 dB in brain tissue (rotation normal probe axis)

Dynamic: 0.001W/kg to > 100W/kg;

Range Linearity: 0.25 dB

Surface: 0.2 mm repeatability in air and liquids

Dimensions Overall length: 330 mm

Tip length: 16 mm

Body diameter: 8 mm

Tip diameter: 2.6 mm

Distance from probe tip to dipole centers: <1.5 mm

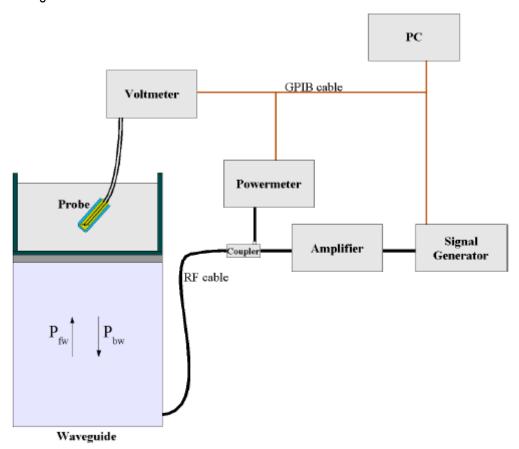
Application General dosimetric up to 6 GHz
Compliance tests of GSM GSM Mobile phones
Fast automatic scanning in arbitrary phantoms

The SAR measurements were conducted with the dosimetric probe designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique, with printed resistive lines on ceramic substrates.

It is connected to the KRC box on the robot arm and provides an automatic detection of the phantom surface. The 3D file of the phantom is include in OpenSAR software. The Video Positioning System allow the system to take the automatic reference and to move the probe safely and accurately on the phantom.

E-Field Probe Calibration Process

Probe calibration is realized, in compliance with CENELEC EN50361; CEI/IEC 62209 and IEEE 1528 std, with CALISAR, SATIMO proprietary calibration system. The calibration is performed with the technique using reference waveguide.



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

Where:

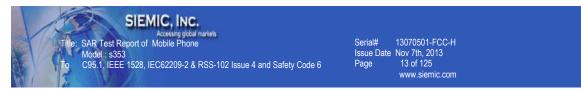
P_{fw} = Forward Power P_{bw} = Backward Power a and b = Waveguide dimensions

□ = Skin depth

Keithley configuration:

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

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



Each probe is calibrated according to a dosimetric assessment procedure described in SAR standard with accuracy better than +/- 10%. The spherical isotropy was evaluated with the procedure described in SAR standard and found to be better than +/-0.25dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies bellow 0.8 GHz, and in a waveguide above 0.8 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. E-field correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue.

SAM Phantom

The SAM Phantom SAM29 is constructed of a fiberglass shell ntegrated in a wooden table. The shape of the shell is in compliance with the specification set in IEEE P1528 and CENELEC EN62209-1, IEC62209-2.

The phantom enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region.

A cover prevents the evaporation of the liquid.

Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

Shell Thickness: 2 0.2 mm Filling Volume: Approx. 25 liters

Dimensions (H x L x W): 810 x 1000 x 500 mm

Liquid is filled to at least 15mm from the bottom of Phantom.



| Serial# | 13070501-FCC-H | Issue Date | Nov 7th, 2013 | Page | 14 of 125 | www.siemic.com

Device Holder

In combination with the Generic Twin Phantom V3.0, the Mounting Device enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatedly positioned according to the FCC and CENELEC specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).



Note: A simulating human hand is not used due to the complex anatomical and geometrical structure of the hand that may produced infinite number of configurations [10]. To produce the worst-case condition (the hand absorbs antenna output power), the hand is omitted during the tests.

Data Evaluation

The OPENSAR software automatically executes the following procedure to calculate the field units from the microvolt readings at the probe connector. The parameters used in the valuation are stored in the configuration modules of the software:

Probe Parameters	- Sensitivity	Norm _i
	- Conversion factor	ConvFi
	- Diode compression point Dcpi	
Device Parameter	- Frequency	f
	- Crest factor	cf
Media Parametrs	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can either be found in the component documents or be imported into the software from the configuration files issued for the OPENSAR components.

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

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

Where 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: $E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$

H-field probes: $H_i = \sqrt{Vi} \cdot \frac{a_{i10} + a_{i11}f + a_{i12}f^2}{f}$

Where V_i = Compensated signal of channel i (i = x, y, z)

 $Norm_i$ = Sensor sensitivity of channel i (i = x, y, z)

μV/(V/m)2 for E0field Probes

ConvF= Sensitivity enhancement in solution

a_{ii} = 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):

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

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

 $SAR - E_{ist}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$

where SAR = local specific absorption rate in mW/g

 E_{tot} = total field strength in V/m

 σ = conductivity in [mho/m] or [siemens/m]

 ρ = equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid.

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

 $P_{per} = \frac{E_{ss}^2}{3770}$ or $P_{per} = H_{ss}^2 \cdot 37.7$

where P_{pwe} = Equivalent power density of a plane wave in mW/cm2

 E_{tot} = total electric field strength in V/m H_{tot} = total magnetic field strength in A/m

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 16 of 125 www.siemic.com

SAR Evaluation – Peak Spatial - Average

The procedure for assessing the peak spatial-average SAR value consists of the following steps

• Power Reference Measurement

The reference and drift jobs are useful jobs for monitoring the power drift of the device under test in the batch process. Both jobs measure the field at a specified reference position, at a selectable distance from the phantom surface. The reference position can be either the selected section's grid reference point or a user point in this section. The reference job projects the selected point onto the phantom surface, orients the probe perpendicularly to the surface, and approaches the surface using the selected detection method.

Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a finer measurement around the hot spot. The sophisticated interpolation routines implemented in OPENSAR software can find the maximum locations even in relatively coarse grids. The scan area is defined by an editable grid. This grid is anchored at the grid reference point of the selected section in the phantom. When the area scan's property sheet is brought-up, grid was at to 15 mm by 15 mm and can be edited by a user.

Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default zoom scan measures 5 x 5 x 7 points within a cube whose base faces are centered around the maximum found in a preceding area scan job within the same procedure. If the preceding Area Scan job indicates more then one maximum, the number of Zoom Scans has to be enlarged accordingly (The default number inserted is 1).

Power Drift measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for one reference measurement. This allows a user to monitor the power drift of the device under test within a batch process. In the properties of the Drift job, the user can specify a limit for the drift and have OPENSAR software stop the measurements if this limit is exceeded.

SAR Evaluation – Peak SAR

The procedure for spatial peak SAR evaluation has been implemented according to the IEEE1529 standard. It can be conducted for 1 g and 10 g. The OPENSAR system allows evaluations that combine measured data and robot positions, such as:

- maximum search
- extrapolation
- · boundary correction
- peak search for averaged SAR

During a maximum search, global and local maximum searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard's method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

Extrapolation

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. Several measurements at different distances are necessary for the extrapolation.

They are used in the Cube Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the fourth order least square polynomial method for extrapolation. For a grid using 5x5x7 measurement points with 5mm resolution amounting to 343 measurement points, the uncertainty of the extrapolation routines is less than 1% for 1 g and 10 g cubes.

Definition of Reference Points

Ear Reference Point

Figure 6.2 shows the front, back and side views of the SAM Phantom. The point "M" is the reference point for the center of the mouth, "LE" is the left ear reference point (ERP), and "RE" is the right ERP. The ERPs are 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 6.1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front) is perpendicular to the reference plane and passing through the RE (or LE) is called the Reference Pivoting Line (see Figure 6.1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

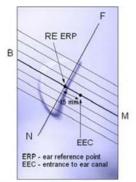


Figure 6.1 Close-up side view of ERP's



Figure 6.2 Front, back and side view of SAM

Device Reference Points

Two imaginary lines on the device need to be established: the vertical centerline and the horizontal line. The test device is placed in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point" (See Fig. 6.3). The "test device reference point" is than located at the same level as the center of the ear reference point. The test device is positioned so that the "vertical centerline" is bisecting the front surface of the device at it's top and bottom edges, positioning the "ear reference point" on the outer surface of both the left and right head phantoms on the ear reference point [5].

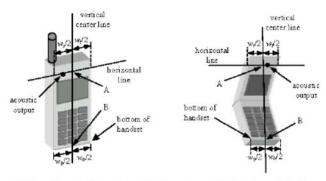


Figure 6.3 Handset Vertical Center & Horizontal Line Reference Points

Test Configuration - Positioning for Cheek / Touch

1. Position the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure below), such that the plane defined by the vertical center line and the horizontal line of the device is approximately parallel to the sagittal plane of the phantom



Figure 7.1 Front, Side and Top View of Cheek/Touch Position

- 2. Translate the device towards the phantom along the line passing through RE and LE until the device touches the ear.
- 3. While maintaining the device in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to MB-NF including the line MB (called the reference plane).
- 4. Rotate the device around the vertical centerline until the device (horizontal line) is symmetrical with respect to the line NF.
- 5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE and maintaining the device contact with the ear, rotate the device about the line NF until any point on the device is in contact with a phantom point below the ear (cheek). See Figure below.

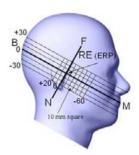


Figure 7.2 Side view w/ relevant markings

Test Configuration – Positioning for Ear / 15° Tilt

With the test device aligned in the Cheek/Touch Position":

- 1. While maintaining the orientation of the device, retracted the device parallel to the reference plane far enough to enable a rotation of the device by 15 degrees.
- 2. Rotate the device around the horizontal line by 15 degrees.
- 3. While maintaining the orientation of the device, move the device parallel to the reference plane until any part of the device touches the head. (In this position, point A is located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, the angle of the device shall be reduced. The tilted position is obtained when any part of the device is in contact with the ear as well as a second part of the device is in contact with the head (see Figure below).

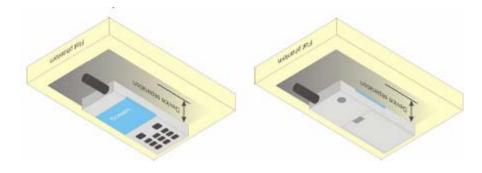


Figure 7.3 Front, Side and Top View of Ear/15° Tilt Position

Test Position – Body Worn Configurations

Body Worn Position

- (a) To position the device parallel to the phantom surface with either keypad up or down.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 1.5 cm or holster surface and the flat phantom to 0 cm.



5 ANSI/IEEE C95.1 – 1999 RF Exposure Limit

In order for users to be aware of the body-worn operating requirements for meeting RF exposure compliance, operating instructions and cautions statements are included in the user's manual.

Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Table 8.1 Human Exposure Limits

	UNCONTROLLED ENVIRONMENT	CONTROLLED ENVIROMENT
	General Population	Professional Population
	(W/kg) or (mW/g)	(W/kg) or (mW/g)
SPATIAL PEAK SAR ¹ Brain	1.60	8.00
SPATIAL AVERAGE SAR ² Whole Body	0.08	0.40
SPATIAL PEAK SAR ³ Hands, Feet, Ankles, Wrists	4.00	20.00

¹ The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

² The Spatial Average value of the SAR averaged over the whole body.

³ The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

6 SYSTEM AND LIQUID VALIDATION

Basic SAR system validation requirements

The SAR system must be validated against its performance specifications before it is deployed. When SAR probes, system components or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such components. Reference dipoles are used with the required tissue-equivalent media for system validation,

The detailed system validation results are maintained by each test laboratory, which are normally not required for equipment approval. Only a tabulated summary of the system validation status, according to the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters is required in the SAR report.

System Verification Setup

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.

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 that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:

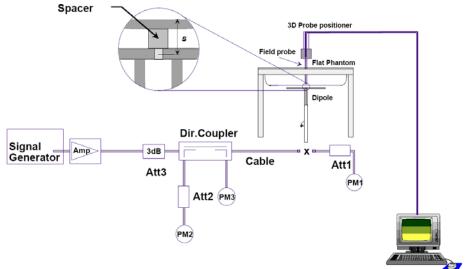


Fig 8.1 System Setup for System Evaluation

- 1. Signal Generator
- 2. Amplifier
- 3. Directional Coupler
- 4. Power Meter
- 5. Calibrated Dipole

Note: The output power on dipole port must be calibrated to 30 dBm (1000 mW) before dipole is connected.

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 22 of 125 www.siemic.com

System Verification Results

Numerical reference SAR values (W/kg) for reference dipole and flat phantom

Frequency (MHz)	1 g SAR	10 g SAR	Local SAR at surface (above feed-point)	Local SAR at surface (y = 2 cm offset from feed-point) ^a
300	3.0	2.0	4.4	2.1
450	4.9	3.3	7.2	3.2
835	9.5	6.2	4.1	4.9
900	10.8	6.9	16.4	5.4
1450	29.0	16.0	50.2	6.5
1800	38.1	19.8	69.5	6.8
1900	39.7	20.5	72.1	6.6
2000	41.1	21.1	74.6	6.5
2450	52.4	24.0	104.2	7.7
3000	63.8	25.7	140.2	9.5

Target and measurement SAR after Normalized (1W):

Measurement Date	Frequency (MHz)	Liquid Type (head/body)	Target SAR1g (W/kg)	Measured SAR1g (W/kg)	Normalized SAR1g (W/kg)	Deviation (%)
Nov 4th, 2013	835	head	9.5	0.38	9.5	0
Nov 4th, 2013	835	body	9.5	0.40	10.0	5.2
Nov 5th, 2013	1900	head	39.7	1.60	40	0.7
Nov 5th, 2013	1900	body	39.7	1.64	41	3.3

Note: system check input power: 40mW

| Serial# | 13070501-FCC-H | Issue Date | Nov 7th, 2013 | Page | 23 of 125 | www.siemic.com

Liquid Validation

The dielectric parameters were checked prior to assessment using the HP85070C dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

KDB 865664 recommended Tissue Dielectric Parameters

The head and body tissue parameters given in this below table should be used to measure the SAR of transmitters operating in 100 MHz to 6 GHz frequency range. The tissue dielectric parameters of the tissue medium at the test frequency should be within the tolerance required in this document. The dielectric parameters should be linearly interpolated between the closest pair of target frequencies to determine the applicable dielectric parameters corresponding to the device test frequency.

The head tissue dielectric parameters recommended by IEEE Std 1528-2003 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in 1528 are derived from tissue dielectric parameters computed from the 4-Cole-Cole equations described above and extrapolated according to the head parameters specified in 1528.

Target Frequency	He	ad	Во	ody
(MHz)	$\epsilon_{ m r}$	σ (S/m)	$\epsilon_{ m r}$	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 - 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

 $(\varepsilon_r = \text{relative permittivity}, \sigma = \text{conductivity and } \rho = 1000 \text{ kg/m}^3)$

Liquid Confirmation Result:

Temperature: <u>21</u> °C, Relative humidity: <u>57</u> %,Measured Date: Nov 4th,2013					
835(MHz)	Description	Dielectric Parameters			
033(IVITZ)	Description	٤r	σ(s/m)		
Head	Target Value ±5% window	41.50 39.43 — 43.58	0.90 0.855 — 0.945		
	Measurement Value	40.43	0.87		
Body	Target Value ±5% window	55.2 52.25 — 57.75	0.97 0.922 — 1.018		
,	Measurement Value	53.73	0.95		



Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 24 of 125 www.siemic.com

Temperature: <u>21</u> °C , Relative humidity: <u>57</u> % , Measured Date: Nov 5th, 2013				
1900(MHz)	Description	Dielectric Parameters		
1900(WITZ)	Description	٤r	σ(s/m)	
Head	Target Value $\pm 5\%$ window	40.00 38.00 — 42.00	1.40 1.33 — 1.47	
	Measurement Value	39.75	1.41	
Body	Target Value $\pm 5\%$ window	53.30 50.64 — 55.97	1.52 1.44 — 1.60	
	Measurement Value	51.72	1.50	

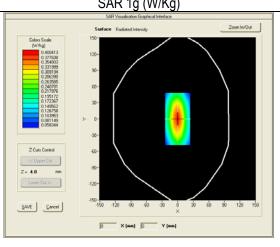
System Validation Plots

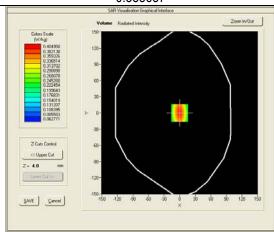
Product Description: Dipole

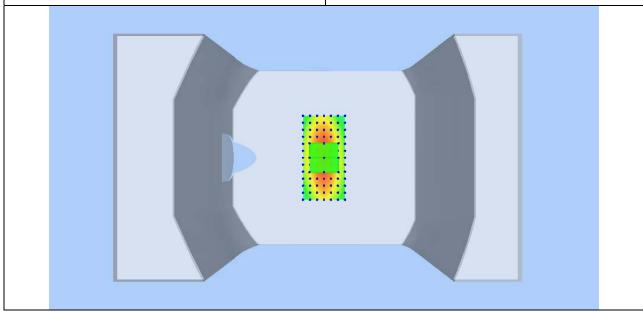
Model: SID835

Test Date: Nov 4th, 2013

Medium(liquid type)	HSL_850
Frequency (MHz)	835.000000
Relative permittivity (real part)	40.43
Conductivity (S/m)	0.87
Input power	40mW
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	3.49
Sensor-surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-2.25000
SAR 10g (W/Kg)	0.246346
SAR 1g (W/Kg)	0.383657







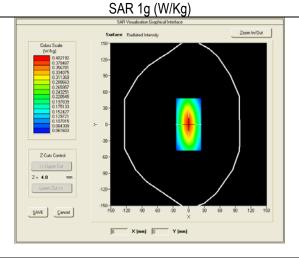


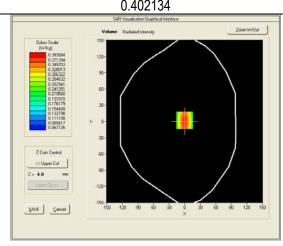
Product Description: Dipole

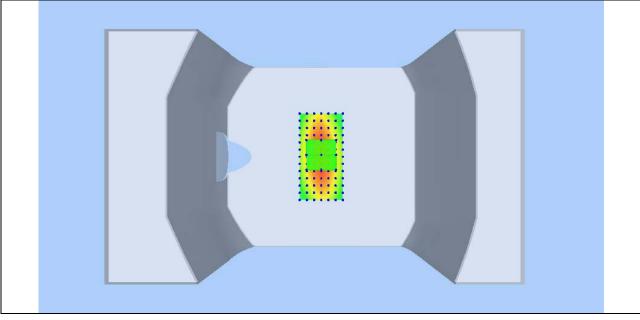
Model: SID835

Test Date: Nov 4th, 2013

Medium(liquid type)	MSL_850
Frequency (MHz)	835.000000
Relative permittivity (real part)	53.73
Conductivity (S/m)	0.95
Input power	40mW
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	3.59
Sensor-surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.09000
SAR 10g (W/Kg)	0.266654
SAR 1a (W/Ka)	0.402134







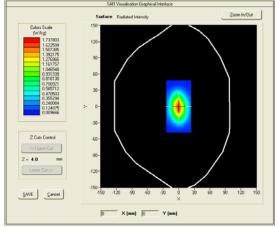


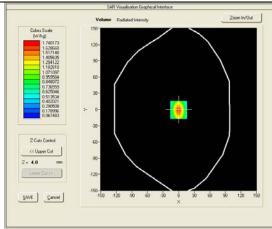
Product Description: Dipole

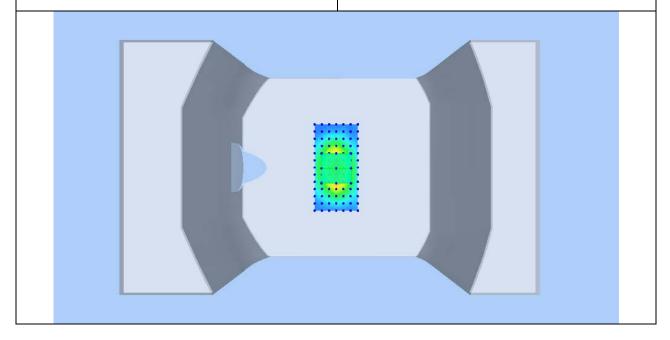
Model: SID1900

Test Date: Nov 5th, 2013

HSL_1900
1900.000
39.75
1.41
40mW
SN 09/13 EPG176
1.0
4.53
4mm
dx=8mm dy=8mm
5x5x7,dx=8mm dy=8mm dz=5mm
-0.18000
0.820603
1.606662







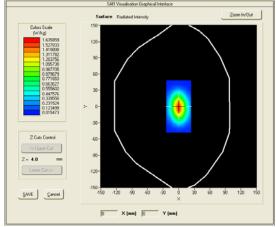


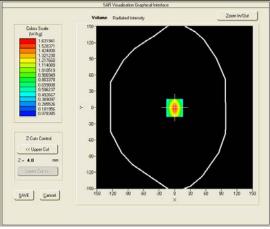
Product Description: Dipole

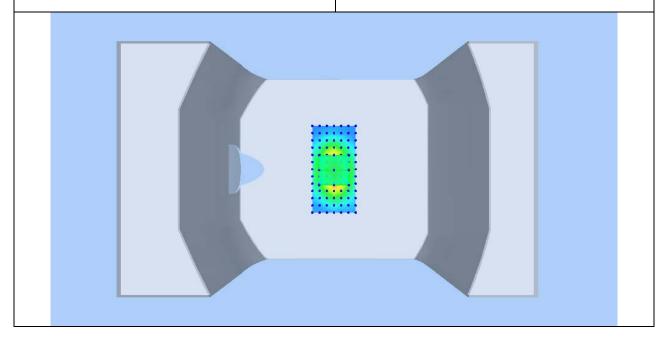
Model: SID1900

Test Date: Nov 5th, 2013

Medium(liquid type)	MSL_1900
Frequency (MHz)	1900.000
Relative permittivity (real part)	51.72
Conductivity (S/m)	1.50
Input power	40mW
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	4.68
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.04000
SAR 10g (W/Kg)	0.855540
SAR 1g (W/Kg)	1.640897
Sensor-Surface Area Scan Zoom Scan Variation (%) SAR 10g (W/Kg)	4mm dx=8mm dy=8mm 5x5x7,dx=8mm dy=8mm dz=5mm -0.04000 0.855540







UNCERTAINTY ASSESSMENT

29 of 125

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 An 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 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 below:

Uncertainty Distribution	Normal	Rectangle	Triangular	U Shape
Multi-plying Factor ^(a)	1/k ^(b)	1 / √3	1 / √6	1 / √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

Standard Uncertainty for Assumed Distribution

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 -sum-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 COMOSAR Uncertainty Budget is show in below table:

The following table includes the uncertainty table of the IEEE 1528 from 300MHz to 3GHz and KDB865664 to 6GHZ too. The values are determined by Satimo.



Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 30 of 125 www.siemic.com

UNCERTAINTY FOR SYSTEM PERFORMANCE CHECK								
Uncertainty Component	Tol. (± %)	Prob. Dist.	Div.	ci (1 g)	ci (10 g)	1 g ui (± %)	10 g ui (± %)	vi
Measurement System								
Probe Calibration	5,8	N	1	1	1	5,8	5,8	∞
Axial Isotropy	3,5	R	√3	(1- cp)1/2	(1- cp)1/2	1,42887	1,42887	∞
Hemispherical Isotropy	5,9	R	√3	√Ср	√Ср	2,40866	2,40866	∞
Boundary Effect	1	R	√3	1	1	0,57735	0,57735	8
Linearity	4,7	R	√3	1	1	2,71355	2,71355	∞
System Detection Limits	1	R	√3	1	1	0,57735	0,57735	∞
Readout Electronics	0,5	N	1	1	1	0,5	0,5	∞
Response Time	0	R	√3	1	1	0	0	∞
Integration Time	1,4	R	√3	1	1	0,80829	0,80829	∞
RF Ambient Conditions	3	R	√3	1	1	1,73205	1,73205	∞
Probe Positioner Mechanical Tolerance	1,4	R	√3	1	1	0,80829	0,80829	∞
Probe Positioning with respect to Phantom Shell	1,4	R	√3	1	1	0,80829	0,80829	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	2,3	R	√3	1	1	1,32791	1,32791	∞
Dipole								
Dipole Axis to Liquid Distance	2	N	√3	1	1	1,1547	1,1547	N-1
Input Power and SAR drift measurement	5	R	√3	1	1	2,88675	2,88675	∞
Phantom and Tissue Parameters								
Phantom Uncertainty (shape and thickness tolerances)	4	R	√3	1	1	2,3094	2,3094	∞
Liquid Conductivity - deviation from target values	5	R	√3	0,64	0,43	1,84752	1,2413	∞
Liquid Conductivity - measurement uncertainty	4	N	1	0,64	0,43	2,56	1,72	М
Liquid Permittivity - deviation from target values	5	R	√3	0,6	0,49	1,73205	1,41451	∞
Liquid Permittivity - measurement uncertainty	5	N	1	0,6	0,49	3	2,45	М
Combined Standard Uncertainty		RSS				9.6671	9.1645	
Expanded Uncertainty (95% CONFIDENCE INTERVAL)		k				19.3342	18.3290	



(95% CONFIDENCE INTERVAL)

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 31 of 125 www.siemic.com

UNCERTAINTY EVALUATION FOR HANDSET SAR TEST 10 g 1 g Tol. Prob. C_{i} C_{i} Div. u_{i} u_{i} (± %) Dist. (1g)(10 g) $(\pm \%)$ $(\pm \%)$ **Uncertainty Component** Vi **Measurement System Probe Calibration** 5,8 Ν 1 1 1 5,8 5,8 $(1-c_p)^{1/2}$ $(1-c_p)^{1/2}$ √3 3,5 R 1,43 1,43 ∞ Axial Isotropy √C_p √3 5.9 R 2.41 2.41 Hemispherical Isotropy √C_p √3 1 R 1 0,58 0,58 **Boundary Effect** 1 ∞ Linearity 4.7 R √3 1 1 2,71 2.71 ∞ √3 R System Detection Limits 1 1 0.58 0.58 0,5 0,50 Ν 1 0,50 Readout Electronics 1 1 ∞ R √3 1 0,00 Response Time 0 1 0,00 ∞ √3 1 Integration Time 1.4 R 1 0,81 0.81 R √3 **RF Ambient Conditions** 3 1 1 1,73 1,73 ∞ Probe Positioner Mechanical 1,4 R √3 1 1 0,81 0,81 ∞ Tolerance Probe Positioning with respect to 1.4 R √3 1 1 0.81 0.81 **Phantom Shell** Extrapolation, interpolation and √3 2,3 R 1,33 Integration Algorithms for Max. 1 1 1,33 ∞ SAR Evaluation **Test sample Related** Test Sample Positioning 2,6 Ν 2,60 2,60 N-1 1 1 1 **Device Holder Uncertainty** 3 Ν 1 1 1 3,00 3,00 N-1 Output Power Variation - SAR drift 5 R √3 1 1 2.89 2.89 ∞ measurement **Phantom and Tissue Parameters** Phantom Uncertainty (shape and 4 R √3 1 1 2.31 2.31 thickness tolerances) Liquid Conductivity - deviation from 5 R √3 0,64 0,43 1,85 1,24 ∞ target values Liquid Conductivity - measurement 4 Ν 1 0.64 0.43 2,56 1,72 M uncertainty Liquid Permittivity - deviation from 5 R √3 1.73 0.6 0.49 1.41 ∞ target values Liquid Permittivity - measurement 5 Ν 1 0,6 0,49 3,00 2,45 Μ uncertainty **RSS** 10.39 9.92 **Combined Standard Uncertainty Expanded Uncertainty** 20.78 19.84 k

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 32 of 125 www.siemic.com

8 TEST INSTRUMENT

TEST INSTRUMENTATION

1E21 IN21KUMEN	IATION				
Name of	Manufacturer	Type/Model	Serial Number	Calibration	Calibration
Equipment				Date	Due
PC	Compaq	PV 3.06GHz	375052-AA1	N/A	N/A
Signal Generator	Agilent	8665B-008	3744A10293	05/15/2013	05/15/2014
MultiMeter	Keithley	MiltiMeter 2000	1259033	06/21/2013	06/21/2014
S-Parameter Network Analyzer	Agilent	8753ES	US39173518	08/04/2013	08/04/2014
Wireless Communication Test Set	R&S	CMU200	111078	07/22/2013	07/22/2014
Power Meter	HP	437B	3038A03648	05/17/2013	05/17/2014
E-field PROBE	SATIMO	SSE2	SN 09/13 EPG176	05/01/2013	05/01/2014
DIPOLE 835	SATIMO	SID 835	SN 18/11 DIPC 150	06/01/2011	06/01/2014
DIPOLE 1900	SATIMO	SID 1900	SN 18/11 DIPG 153	06/01/2011	06/01/2014
COMOSAR Open Coaxial Probe	SATIMO	OCP43	SN 24/11 OCPG43	06/01/2013	06/01/2014
Communication Antenna	SATIMO	ANTA3	SN 20/11 ANTA 3	06/21/2013	06/20/2014
Laptop POSITIONING DEVICE	SATIMO	LSH15	SN 24/11 LSH15	N/A	N/A
GSM GSM Mobile phonePOSITIONING DEVICE	SATIMO	MSH73	SN 24/11 MSH73	N/A	N/A
DUMMY PROBE	ANTENNESSA		DP41	N/A	N/A
SAM PHANTOM	SATIMO	SAM87	SN 24/11 SAM87	N/A	N/A
Elliptic Phantom	SATIMO	ELLI20	SN 20/11ELLI20	N/A	N/A
PHANTOM TABLE	SATIMO	N/A	N/A	N/A	N/A
6 AXIS ROBOT	KUKA	KR5	949272	N/A	N/A
high Power Solid State Amplifier (80MHz~1000MHz)	Instruments for Industry	CMC150	M631-0408	N/A	N/A
Medium Power Solid State Amplifier (0.8~4.2GHz)	Instruments for Industry	S41-25	M629-0408	N/A	N/A
Wave Tube Amplifier 4-8 GHz at 20Watt	Hughes Aircraft Company	1277H02F000	81	N/A	N/A

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 33 of 125 www.siemic.com

9 OUTPUT POWER VERIFICATION

Test Condition:

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The base station simulator was connected to the antenna terminal.

2 Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$.

3 Environmental Conditions

Temperature 23°C
Relative Humidity 53%
Atmospheric Pressure 1019mbar

4 Test Date: Nov 4th, 2013 Tested By: Chris You

Test Procedures:

GSM Mobile phone radio output power measurement

- 1. The transmitter output port was connected to base station emulator.
- 2. Establish communication link between emulator and EUT and set EUT to operate at maximum output power all the time.
- 3. Select lowest, middle, and highest channels for each band and different possible test mode.
- 4. Measure the conducted peak burst power and conducted average burst power from EUT antenna port.

Other radio output power measurement

The output power was measured using power meter at low, mid, and hi channels.

Source-based Time Averaged Burst Power Calculation:

For TDMA, the following duty cycle factor was used to calculate the source-based time average power

Number of Time slot	1	2	3	4
Duty Cycle	1:8	1:4	1:2.66	1:2
Duty cycle factor	-9.03 dB	-6.02 dB	-4.26 dB	-3.01 dB
Crest Factor	8	4	2.66	2

Remark: Time slot duty cycle factor = 10 * log (1 / Time Slot Duty Cycle)

Source based time averaged power = Maximum burst averaged power (1 Uplink) – 9.03 dB Source based time averaged power = Maximum burst averaged power (2 Uplink) – 6.02 dB Source based time averaged power = Maximum burst averaged power (4 Uplink) – 3.01 dB

| Serial# | 13070501-FCC-H | Issue Date | Nov 7th, 2013 | Page | 34 of 125 | www.siemic.com

Test Result:

GSM:

Burst Average Power (dBm);								
Band		GSN	1850			GSN	M1900	
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	1	1850.2	1880	1909.8	1
GSM Voice (1 uplink),GMSK	31.51	31.53	31.61	31±1	29.01	29.21	29.53	29±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	31.42	31.43	31.46	31±1	28.99	29.19	29.42	29±1
GPRS Multi-Slot Class 10 (2 uplink),GMSK	30.32	30.41	30.42	30±1	28.37	28.56	28.82	28±1
GPRS Multi-Slot Class 12 (4 uplink),GMSK	27.45	27.58	27.62	27±1	25.80	26.05	26.35	26±1

Remark:

GPRS, CS1 coding scheme.

Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

Source Based time Average Power (dBm)								
Band		G	SM850		GSM1900			
Channel	128	190	251	Time Average factor	512	661	810	Time Average factor
Frequency (MHz)	824.2	836.6	848.8	1	1850.2	1880	1909.8	1
GSM Voice (1 uplink),GMSK	22.48	22.50	22.58	-9.03	19.98	20.18	20.50	-9.03
GPRS Multi-Slot Class 8 (1 uplink),GMSK	22.39	22.40	22.43	-9.03	19.96	20.16	20.39	-9.03
GPRS Multi-Slot Class 10 (2 uplink),GMSK	24.30	24.39	24.40	-6.02	22.35	22.54	22.80	-6.02
GPRS Multi-Slot Class 12 (4 uplink),GMSK	24.44	24.57	24.61	-3.01	22.79	23.04	23.34	-3.01

Remark:

Time average factor = 1 uplink , 10*log(1/8)=-9.03dB , 2 uplink , 10*log(2/8)=-6.02dB , 4 uplink , 10*log(4/8)=-3.01dB Source based time average power = Burst Average power + Time Average factor

Note: 1. Body SAR was performed at GPRS Multi-slot class 12 due to the source based time average power. And the multiple SIM card with two lines cannot transmitting at the same time.

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 35 of 125 www.siemic.com

WCDMA BAND V

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
DMC	4132	826.4	22.28	22±1
RMC 12.2kbps	4175	835	22.49	22±1
12.2κυμ5	4232	846.4	22.38	22±1
LICDDA	4133	826.4	22.10	22±1
HSDPA Subtest1	4175	835	22.21	22±1
Subtest1	4232	846.4	22.15	22±1
LICDDA	4133	826.4	22.00	22±1
HSDPA Subtest2	4175	835	22.12	22±1
Subtest2	4232	846.4	22.09	22±1
LICDDA	4133	826.4	21.97	22±1
HSDPA	4175	835	22.03	22±1
Subtest3	4232	846.4	22.00	22±1
116554	4133	826.4	21.88	22±1
HSDPA Subtest4	4175	835	21.91	22±1
	4232	846.4	21.89	22±1
LICLIDA	4133	826.4	21.76	22±1
HSUPA	4175	835	21.82	22±1
Subtest1	4232	846.4	21.80	22±1
1161104	4133	826.4	21.66	22±1
HSUPA	4175	835	21.72	22±1
Subtest2	4232	846.4	21.71	22±1
1161104	4133	826.4	21.59	22±1
HSUPA	4175	835	21.63	22±1
Subtest3	4232	846.4	21.60	22±1
1101124	4133	826.4	21.41	22±1
HSUPA	4175	835	21.54	22±1
Subtest4	4232	846.4	21.51	22±1
	4133	826.4	21.37	22±1
HSUPA	4175	835	21.45	22±1
Subtest5	4232	846.4	21.43	22±1

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 36 of 125 www.siemic.com

WCDMA Band II:

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)	Tune up Power tolerant
DNAC	9262	1852.4	22.12	22±1
RMC 12.2kbps	9400	1880.0	21.91	22±1
12.28005	9538	1907.6	21.56	22±1
LICDDA	9262	1852.4	21.98	22±1
HSDPA	9400	1880.0	21.84	22±1
Subtest1	9538	1907.6	21.72	22±1
LICDDA	9262	1852.4	21.83	22±1
HSDPA Subtost2	9400	1880.0	21.76	22±1
Subtest2	9538	1907.6	21.65	22±1
LICEDA	9262	1852.4	21.72	22±1
HSDPA	9400	1880.0	21.65	22±1
Subtest3	9538	1907.6	21.54	22±1
LICEDA	9262	1852.4	21.54	22±1
HSDPA	9400	1880.0	21.51	22±1
Subtest4	9538	1907.6	21.43	22±1
LICLIDA	9262	1852.4	21.42	22±1
HSUPA Subtest1	9400	1880.0	21.38	22±1
Subtest1	9538	1907.6	21.25	22±1
LICLIDA	9262	1852.4	21.36	22±1
HSUPA Subtest2	9400	1880.0	21.20	22±1
Subtest2	9538	1907.6	21.14	22±1
LICLIDA	9262	1852.4	21.21	21±1
HSUPA	9400	1880.0	21.09	21±1
Subtest3	9538	1907.6	21.08	21±1
LICLIDA	9262	1852.4	21.13	21±1
HSUPA Subtest4	9400	1880.0	20.98	21±1
Subtest4	9538	1907.6	21.02	21±1
LICLIDA	9262	1852.4	21.02	21±1
HSUPA Subtest	9400	1880.0	20.84	21±1
Subtest5	9538	1907.6	20.86	21±1



| Serial# | 13070501-FCC-H | Issue Date | Nov 7th, 2013 | Page | 37 of 125 | www.siemic.com

WIFI Mode (2.4G)

Mode	Channel number	Frequency (MHz)	Data rate(Mbps)	Average Output Power(dBm)	Tune up Power tolerant
	1	2412	1	9.42	8.6±1
802.11b	6	2437	1	9.50	8.6±1
	11	2462	1	9.55	8.6±1
	1	2412	6	8.71	8.6±1
802.11g	6	2437	6	9.56	8.6±1
	11	2462	6	9.08	8.6±1
	1	2412	MCS0	9.20	8.6±1
802.11n(HT20)	6	2437	MCS0	9.25	8.6±1
	11	2462	MCS0	9.11	8.6±1

Bluetooth Measurement Result

Channel number	Frequency (MHz)	Output Power(dBm)	Tune up Power tolerant
0	2402	6.44	6±1
39	2441	6.98	6±1
78	2480	6.92	6±1

Note: SAR Test Exclusion Threshold for WIFI&BT is about 9.6mW, the maximum tune up power of WIFI is 9.6dBm=9.1mW, BT is 5.0mW, no stand-alone SAR is required.



10 SAR TEST RESULTS

Test Condition:

1. SAR Measurement

The distance between the EUT and the antenna of the emulator is more than 50 cm and the output power radiated from the emulator antenna is at least 30 dB less than the output power of EUT.

2 Measurement Uncertainty: See page 26 for detail

3 Environmental Conditions Temperature 23°C

Relative Humidity 53% Atmospheric Pressure 1019mbar

4 Test Date: Nov 4th, 2013~ Nov 5th, 2013

Tested By: Chris You

Test Procedures:

1. Establish communication link between EUT and base station emulation by air link.

- 2. Consider the SAR test reduction per FCC KDB guide line. For GSM/GPRS/EGPRS, set EUT into highest output power channel with test mode which has the maximum source-based time-averaged burst power listed in power table. If the source-based time-average output power for each data mode of EGPRS is lower than that in normal GPRS mode, then testing under EGPRS mode is not necessary.
- 3. Place the EUT in the selected test position. (Cheek, tilt or flat)
- 4. Perform SAR testing at highest output power channel under the selected test mode. If the measured 1-g SAR is ≤ 0.8 W/kg, then testing for the other channel will not be performed.
- 5. When SAR is<0.8W/kg, no repeated SAR measurement is required

SAR measurement system will proceed the following basic steps:

- 1. Initial power reference measurement
- 2. Area Scan
- 3. Zoom Scan
- 4. Power drift measurement

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 39 of 125 www.siemic.com

SAR Summary Test Result:

GSM850

Date of Measured : Nov 4th, 2013						Body-Worn Separation Distance:1.5cm			
Position	Channel	Mode	SAR 1g(W/kg)	Limit (W/kg)	Power Drift (%)	Maximum Turn-up Power(dBm)	measured output power (dBm)	Scaled Maximum SAR(W/kg)	
	Low	GSM voice	0.950	1.6	3.46	32	31.51	1.06	
Right Head	Mid	GSM voice	0.911	1.6	-1.11	32	31.53	1.02	
Cheek	High	GSM voice	1.018	1.6	2.19	32	31.61	1.11	
	High	GSM voice	0.995	1.6	-4.78	32	31.61	1.09	
Right Head Tilt	High	GSM voice	0.501	1.6	0.16	32	31.61	0.55	
	Low	GSM voice	0.981	1.6	4.92	32	31.51	1.10	
	Mid	GSM voice	1.032	1.6	-3.31	32	31.53	1.15	
	High	GSM voice	1.080	1.6	4.19	32	31.61	1.18	
	High	GSM voice	1.019	1.6	4.56	32	31.61	1.11	
Left Head Tilt	High	GSM voice	0.579	1.6	2.55	32	31.61	0.63	
	Low	GPRS Class12	0.893	1.6	-4.36	28	27.45	1.01	
Body-worn	Mid	GPRS Class12	1.092	1.6	-4.81	28	27.58	1.20	
LCD Up	High	GPRS Class12	1.197	1.6	3.70	28	27.62	1.31	
	High	GPRS Class12	1.111	1.6	-2.97	28	27.62	1.21	
	Low	GPRS Class12	1.174	1.6	-2.62	28	27.45	1.33	
Body-worn	Mid	GPRS Class12	1.273	1.6	-3.38	28	27.58	1.40	
LCD DOWN	High	GPRS Class12	1.286	1.6	2.24	28	27.62	1.40	
	High	GPRS Class12	1.300	1.6	3.83	28	27.62	1.42	
Body-worn LCD DOWN With handset	High	GPRS Class12	0.725	1.6	4.93	28	27.62	0.79	

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 40 of 125 www.siemic.com

WCDMA BAND V (850)

Date of Measure	Date of Measured : Nov 4th, 2013						Body-Worn Separation Distance:1.5cm			
Position	Channel	Mode	SAR 1g(W/kg)	Limit (W/kg)	Power Drift (%)	Maximum Turn-up Power(dBm)	measured output power (dBm)	Scaled Maximum SAR(W/kg)		
Right Head Cheek	Mid	RMC 12.2kbps	0.911	1.6	-1.11	23	22.49	1.02		
Right Head Tilt	Mid	RMC 12.2kbps	0.439	1.6	-4.64	23	22.49	0.49		
Left Head Cheek	Mid	RMC 12.2kbps	0.734	1.6	1.69	23	22.49	0.83		
Left Head Tilt	Mid	RMC 12.2kbps	0.423	1.6	1.66	23	22.49	0.48		
Body-worn LCD Up	Mid	RMC 12.2kbps	0.500	1.6	-4.52	23	22.49	0.56		
Body-worn LCD Down	Mid	RMC 12.2kbps	0.666	1.6	0.55	23	22.49	0.75		

PCS1900:

PCS1900:								
Date of Measure	Body-Worn Separation Distance:1.5cm							
Position	Channel	Mode	SAR 1g(W/kg)	Limit (W/kg)	Power Drift (%)	Maximum Turn-up Power(dBm)	measured output power (dBm)	Scaled Maximum SAR(W/kg)
Right Head Cheek	High	GSM voice	0.512	1.6	-1.77	30	29.53	0.57
Right Head Tilt	High	GSM voice	0.138	1.6	-4.70	30	29.53	0.15
Left Head Cheek	High	GSM voice	0.559	1.6	4.42	30	29.53	0.62
Left Head Tilt	High	GSM voice	0.294	1.6	-2.55	30	29.53	0.33
Body-worn LCD up	High	GPRS Class12	0.306	1.6	4.08	27	26.35	0.36
Body-worn LCD Down	Low	GPRS Class12	0.964	1.6	-0.21	27	26.20	1.16
Body-worn LCD Down	Mid	GPRS Class12	0.945	1.6	-4.06	27	26.25	1.12
Body-worn LCD Down	High	GPRS Class12	1.011	1.6	-2.07	27	26.35	1.17
Body-worn LCD Down	High	GPRS Class12	1.020	1.6	-2.07	27	26.35	1.18

| Serial# | 13070501-FCC-H | Issue Date | Nov 7th, 2013 | Page | 41 of 125 | www.siemic.com

WCDMA BAND II (1900):

Date of Measured : Nov 5th, 2013 Body-Worn Separation Distance							nce:1.5cm	
Position	Channel	Mode	SAR 1g(W/kg)	Limit (W/kg)	Power Drift (%)	Maximum Turn-up Power(dBm)	measured output power (dBm)	Scaled Maximum SAR(W/kg)
Right Head Cheek	Low	RMC 12.2kbps	0.692	1.6	0.63	23	22.12	0.85
Right Head Tilt	Low	RMC 12.2kbps	0.198	1.6	-3.01	23	22.12	0.24
Left Head Cheek	Low	RMC 12.2kbps	0.490	1.6	-0.46	23	22.12	0.60
Left Head Tilt	Low	RMC 12.2kbps	0.176	1.6	-1.46	23	22.12	0.22
Body-worn LCD up	Mid	RMC 12.2kbps	0.407	1.6	0.80	23	21.91	0.52
Body-worn LCD Down	Low	RMC 12.2kbps	0.966	1.6	-0.78	23	22.12	1.18
Body-worn LCD Down	Low	RMC 12.2kbps	0.970	1.6	-0.47	23	22.12	1.19
Body-worn LCD Down	Mid	RMC 12.2kbps	0.886	1.6	-0.37	23	21.91	1.14
Body-worn LCD Down	High	RMC 12.2kbps	0.803	1.6	0.46	23	21.56	1.12

Note: 1. KDB941225 D01-Body SAR is not required for HSDPA when the average output of each RF channel with HSDPA active is less than 0.25dB higher than measured without HSDPA using 12.2kbps RMC or the maximum SAR for 12.2kbps RMC<75% of the SAR limit.

2. KDB941225 D01-Body SAR is not required for handset with HSPA capabilities when the maximum average output of each RF channel with HSUPA/HSDPA active is less than 0.25dB higher than that measure without HSUPA/HSDPA using 12.2kbps RMC AND THE maximum SAR for 12.2kbps RMC is<75% of the SAR limit

Measurement variability consideration

According to KDB 865664 D01v01 section 2.8.1, repeated measurements are required following the procedures as below:

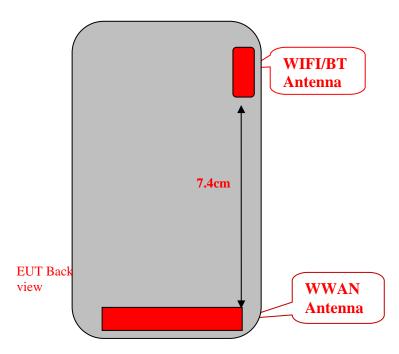
- 1. Repeated measurement is not required when the original highest measured SAR is < 0.80W/kg; steps 2) through 4) do not apply.
- 2. When the original highest measured SAR is \geq 0.80 W/kg, repeat that measurement once.
- 3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20. Measured SAR (W/Kg)

Serial# 13070501-FCC-H Issue Date Nov 7th, 2013 Page 42 of 125 www.siemic.com

Repeated SAR:

				measured SAR(W/kg)					
Band	Position	Channel	Mode	0	1st Repeated		2nd Repeated		
			Original		Ratio	Value	Ratio		
GSM850	Right Head Cheek	High	GSM voice	1.018	0.995	1.02	NA	NA	
GSM850	Left Head Cheek	High	GSM voice	1.080	1.019	1.06	NA	NA	
GSM850	Body-worn LCD up	High	GPRS Class12	1.197	1.111	1.07	NA	NA	
GSM850	Body-worn LCD Down	High	GPRS Class12	1.286	1.300	1.01	NA	NA	
GSM1900	Body-worn LCD Down	High	GPRS Class12	1.011	1.020	1.01	NA	NA	
WCDMA1900	Body-worn LCD Down	Low	RMC 12.2kbps	0.966	0.970	1.00	NA	NA	

Antenna Separation Information:



Simultaneous Transmission SAR Analysis.

No.	Applicable Simultaneous Transmission Combination
1.	WWAN+BT
2.	WWAN+WIFI

Note:

- 1. For simultaneous transmission analysis, WiFi and Bluetooth SAR is estimated per KDB 447498 D01 v05 base on the formula below:
 - (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f_{(GHz)}/x}$] W/kg for test separation distances ≤ 50 mm;

where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

- 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm.²¹
- 2. If the test separation distances is≤5mm, 5mm is used for estimated SAR calculation.
- 3. WIFI maximum tune up power is 9.6dBm, BT's maximum tune up power is 7dBm and the estimated SAR is listed below.

Test position	Head(0cm)	Body-worn(1.5cm)
WIFI Estimated SAR(W/kg)	0.38	0.13
BT Estimated SAR(W/kg)	0.21	0.07

Maximum Summation:

	WWAN	WIFI	BT WWAN+WIFI WV		MANANIDT	
position	Max. Scaled SAR	Max. Scaled SAR	Max. Scaled SAR	VVVVAINTVVIFI	WWAN+BT	
Head 0cm	1.18	0.38	0.13	1.56	1.31	
Body 1.5cm	1.42	0.13	0.07	1.55	1.49	

Note: 1g-SAR scalar summation<1.6W/kg, so no simultaneous SAR is required.

11 SAR MEASUREMENT REFERENCES

References

- 1. FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- 2. IEEE Std. C95.1-1991, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300GHz", 1991
- 3. IEEE Std. 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communication Devices: Measurement Techniques", December 2003
- 4. IEC 62209-2, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices—Human models, instrumentation, and procedures Part 2: Procedure to determine the specific absorption rate(SAR) for wireless communication devices used in close proximity to the human body(frequency range of 30MHz to 6GHz)", March 2010
- 5. FCC KDB 447498 D01 v05, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 24th, 2012
- 6. FCC KDB 941225 D04 v01, "Evaluation SAR for GSM/(E)GPRS Dual Transfer Mode", January 27 2010
- 7. FCC KDB 941225 D03 v01, "Evaluation SAR Test Reduction Procedures for GSM/GPRS/EDGE",

 December 2008
- 8. FCC KDB 865664 D01, "SAR Measurement Requirements 100MHz to 6GHz", May 28th, 2013
- 9. FCC KDB648474 D04, SAR Evaluation Considerations for Wireless Handsets. May 28th, 2013



SAR measurement Plots

Test mode: GSM850, Low channel (Right Head Cheek)

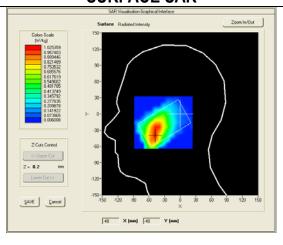
Product Description: Mobile Phone

Model: s353

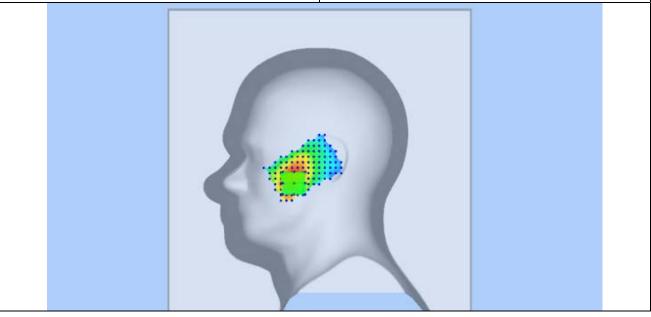
Test Date: Nov 4th, 2013

Medium(liquid type)	HSL_850
Frequency (MHz)	824.20000
Relative permittivity (real part)	40.43
Conductivity (S/m)	0.87
E-Field Probe	SN 09/13 EPG176
Crest factor	8.0
Conversion Factor	3.49
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	3.460000
SAR 10g (W/Kg)	0.642311
SAR 1g (W/Kg)	0.949721

SURFACE SAR



VOLUME SAR



SAVE Gancel



Test mode: GSM850, Mid channel (Right Head Cheek)

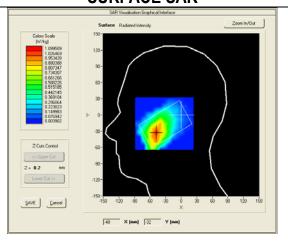
Product Description: Mobile Phone

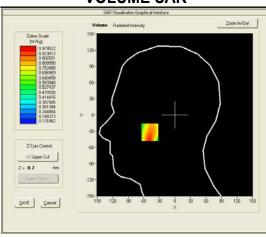
Model: s353

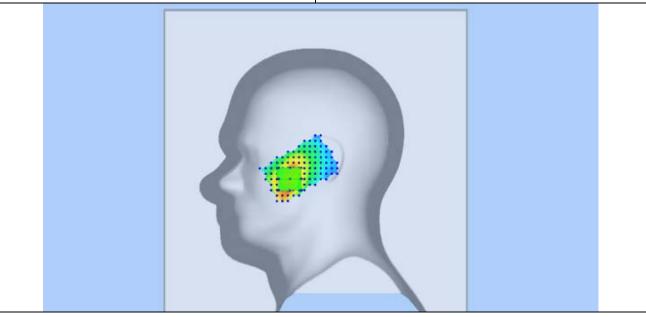
Test Date: Nov 4th, 2013

HSL_850		
836.60000		
40.43		
0.87		
SN 09/13 EPG176		
8.0		
3.49		
4mm		
dx=8mm dy=8mm		
5x5x7,dx=8mm dy=8mm dz=5mm		
-1.110000		
0.640351		
0.910670		

SURFACE SAR









Test mode: GSM850, High channel (Right Head Cheek)

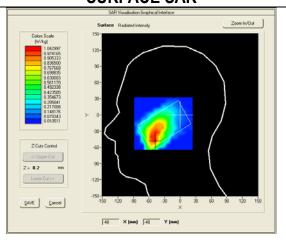
Product Description: Mobile Phone

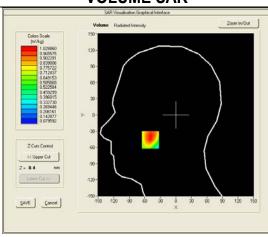
Model: s353

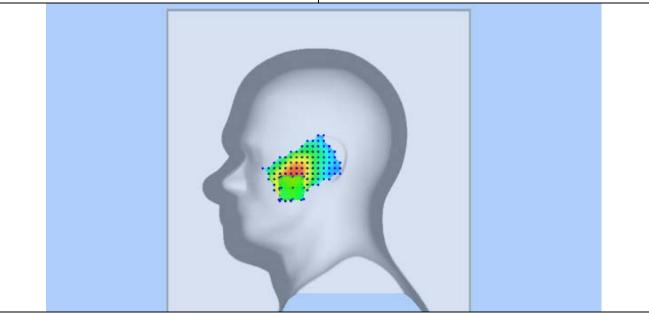
Test Date: Nov 4th, 2013

HSL_850
848.80000
40.43
0.87
SN 09/13 EPG176
8.0
3.49
4mm
dx=8mm dy=8mm
5x5x7,dx=8mm dy=8mm dz=5mm
2.190001
0.661796
1.018102

SURFACE SAR









Test mode: GSM850, High channel (Right Head Cheek), repeated measured.

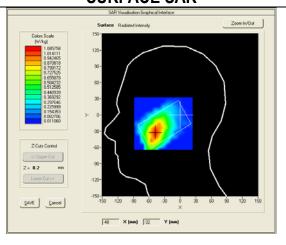
Product Description: Mobile Phone

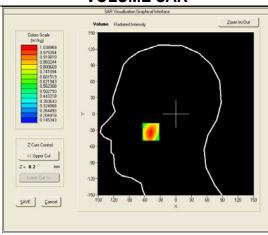
Model: s353

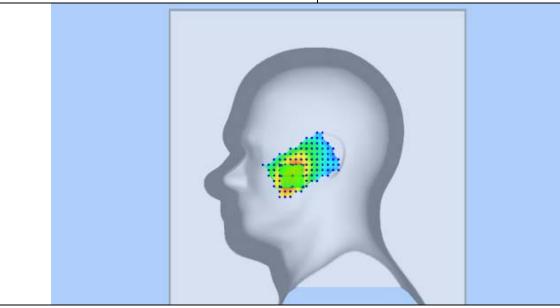
Test Date: Nov 4th, 2013

Medium(liquid type)	HSL_850
Frequency (MHz)	848.80000
Relative permittivity (real part)	40.43
Conductivity (S/m)	0.87
E-Field Probe	SN 09/13 EPG176
Crest factor	8.0
Conversion Factor	3.49
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-4.780000
SAR 10g (W/Kg)	0.704761
SAR 1g (W/Kg)	0.995365

SURFACE SAR









Test mode: GSM850, High channel (Right Head Tilt)

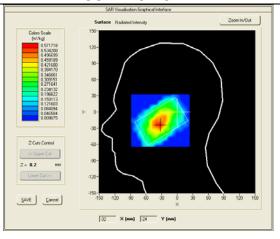
Product Description: GSM Mobile phone

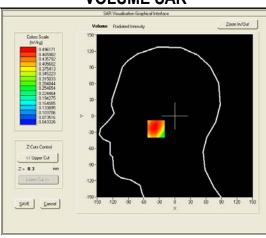
Model: s353

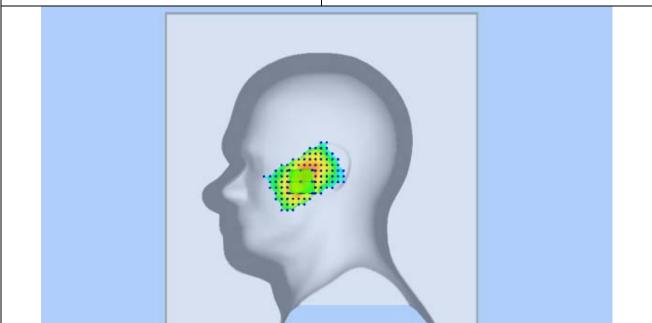
Test Date: Nov 4th, 2013

HSL_850
848.80000
40.43
0.87
SN 09/13 EPG176
8.0
3.49
4mm
dx=8mm dy=8mm
5x5x7,dx=8mm dy=8mm dz=5mm
0.160000
0.377806
0.501010

SURFACE SAR









Test mode: GSM850, Low channel (Left Head Cheek)

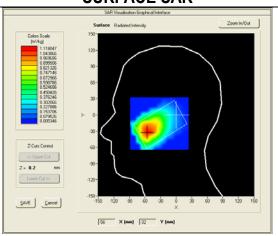
Product Description: Mobile Phone

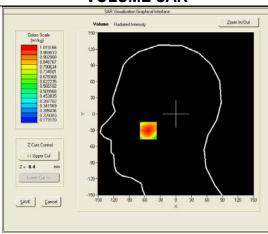
Model: s353

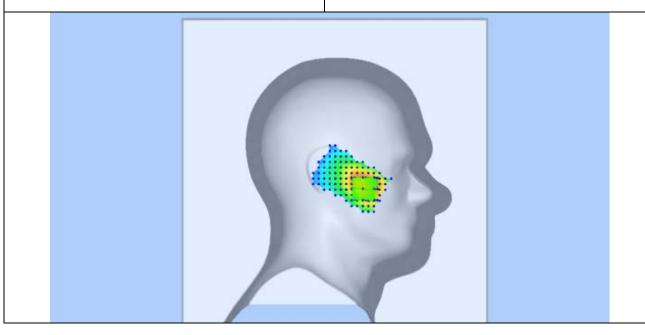
Test Date: Nov 4th, 2013

Medium(liquid type)	HSL_850
Frequency (MHz)	824.20000
Relative permittivity (real part)	40.43
Conductivity (S/m)	0.87
E-Field Probe	SN 09/13 EPG176
Crest factor	8.0
Conversion Factor	3.49
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	4.920000
SAR 10g (W/Kg)	0.722528
SAR 1g (W/Kg)	0.981124

SURFACE SAR









Test mode: GSM850, Mid channel (Left Head Cheek)

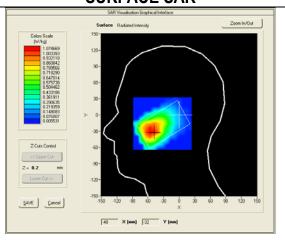
Product Description: Mobile Phone

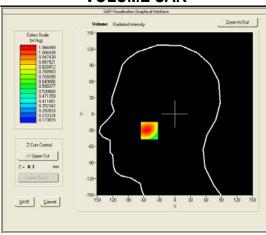
Model: s353

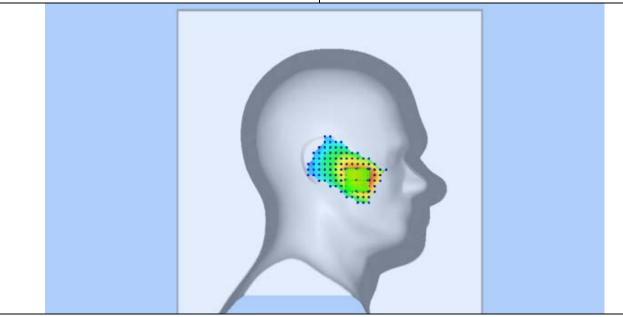
Test Date: Nov 4th, 2013

HSL_850
836.60000
40.43
0.87
SN 09/13 EPG176
8.0
3.49
4mm
dx=8mm dy=8mm
5x5x7,dx=8mm dy=8mm dz=5mm
-3.310000
0.733702
1.031645

SURFACE SAR









Test mode: GSM850, high channel (Left Head Cheek)

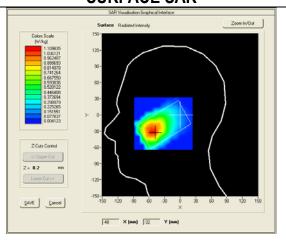
Product Description: Mobile Phone

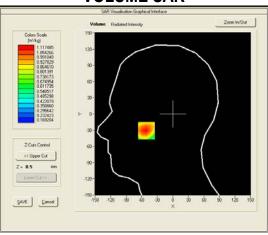
Model: s353

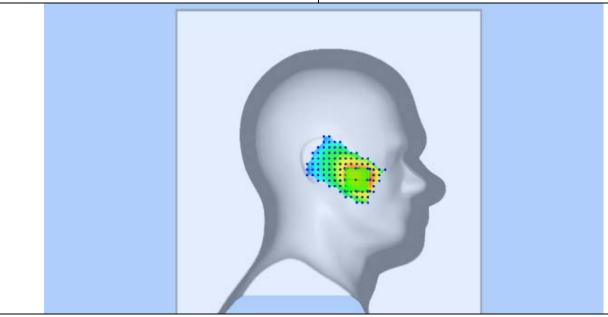
Test Date: Nov 4th, 2013

HSL_850
848.80000
40.43
0.87
SN 09/13 EPG176
8.0
3.49
4mm
dx=8mm dy=8mm
5x5x7,dx=8mm dy=8mm dz=5mm
4.190000
0.743236
1.079939

SURFACE SAR









Test mode: GSM850, High channel (Left Head Cheek), repeated measured.

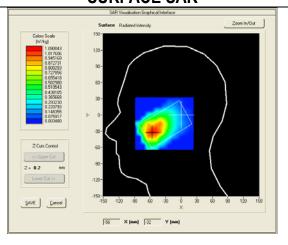
Product Description: Mobile Phone

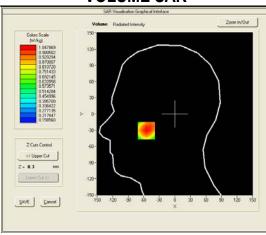
Model: s353

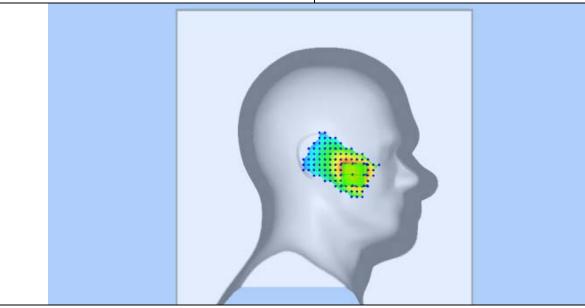
Test Date: Nov 4th, 2013

Medium(liquid type)	HSL_850
Frequency (MHz)	848.80000
Relative permittivity (real part)	40.43
Conductivity (S/m)	0.87
E-Field Probe	SN 09/13 EPG176
Crest factor	8.0
Conversion Factor	3.49
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	4.560000
SAR 10g (W/Kg)	0.729488
SAR 1g (W/Kg)	1.019112

SURFACE SAR









Test mode: GSM850, High channel (Left Head Tilt)

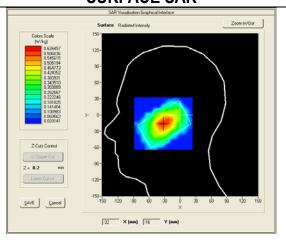
Product Description: Mobile Phone

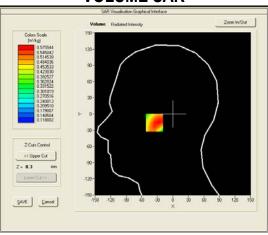
Model: s353

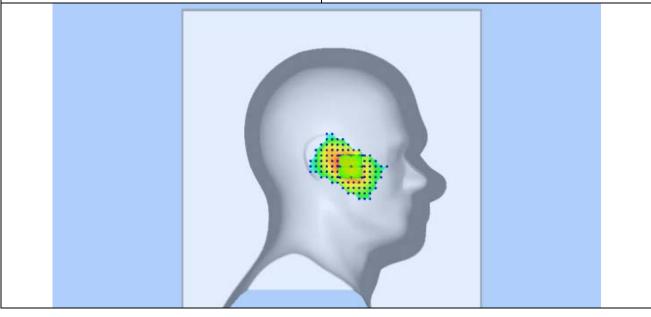
Test Date: Nov 4th, 2013

HSL_850
848.80000
40.43
0.87
SN 09/13 EPG176
8.0
3.49
4mm
dx=8mm dy=8mm
5x5x7,dx=8mm dy=8mm dz=5mm
2.550000
0.432856
0.579087

SURFACE SAR









Test mode: GPRS850, Low channel (Body-LCD UP)

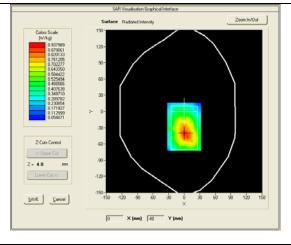
Product Description: Mobile Phone

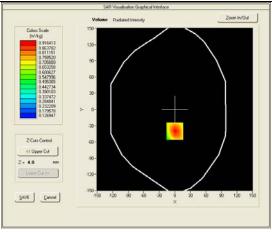
Model: s353

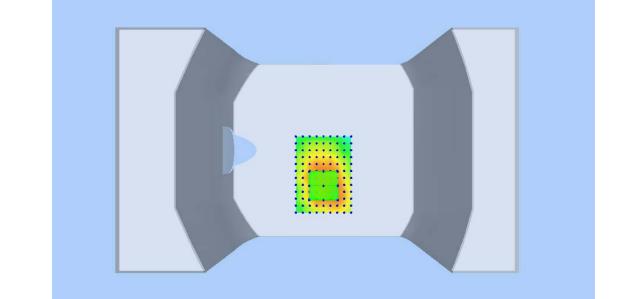
Test Date: Nov 4th, 2013

MSL_850
824.20000
53.73
0.95
SN 09/13 EPG176
2.0
3.59
dx=8mm dy=8mm
5x5x7,dx=8mm dy=8mm dz=5mm
-4.360000
0.605319
0.892832

SURFACE SAR









Test mode: GPRS850, Mid channel (Body-LCD UP)

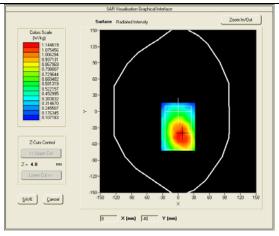
Product Description: Mobile Phone

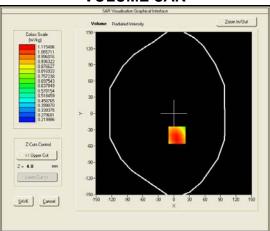
Model: s353

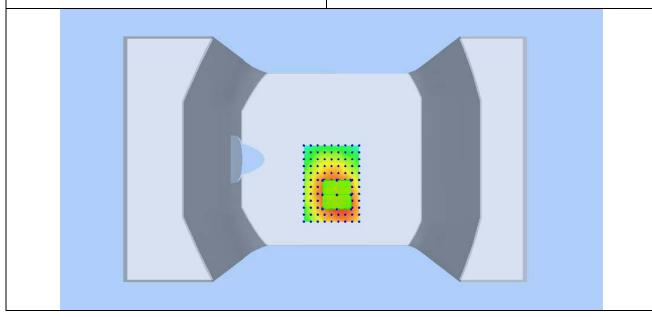
Test Date: Nov 4th, 2013

Medium(liquid type)	MSL_850
Frequency (MHz)	836.60000
Relative permittivity (real part)	53.73
Conductivity (S/m)	0.95
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	3.59
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-4.810000
SAR 10g (W/Kg)	0.784374
SAR 1g (W/Kg)	1.091662

SURFACE SAR









Test mode: GPRS850, High channel (Body-LCD UP)

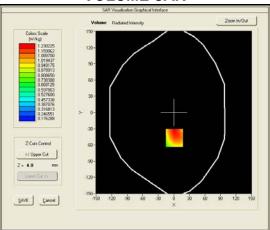
Product Description: Mobile Phone

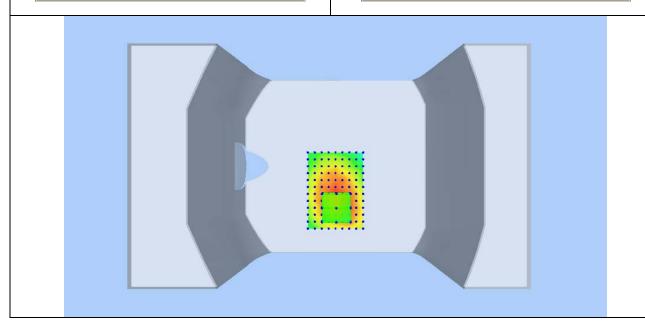
Model: s353

Test Date: Nov 4th, 2013

MSL_850
848.80000
53.73
0.95
SN 09/13 EPG176
2.0
3.59
dx=8mm dy=8mm
5x5x7,dx=8mm dy=8mm dz=5mm
3.700000
0.843799
1.197319

SURFACE SAR







Test mode: GPRS850, High channel (Body-LCD UP), repeated measured.

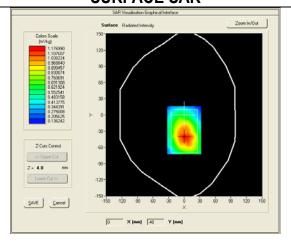
Product Description: Mobile Phone

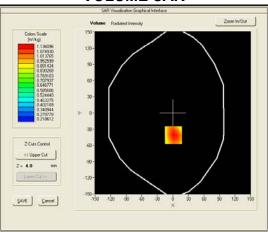
Model: s353

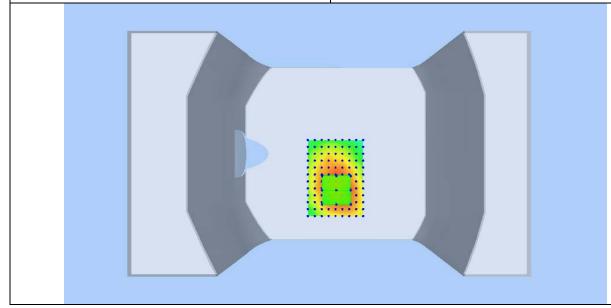
Test Date: Nov 4th, 2013

Medium(liquid type)	HSL_850
Frequency (MHz)	848.80000
Relative permittivity (real part)	40.43
Conductivity (S/m)	0.87
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	3.49
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-2.970000
SAR 10g (W/Kg)	0.770862
SAR 1g (W/Kg)	1.111391

SURFACE SAR









Test mode: GPRS850, Low channel (Body-LCD DOWN)

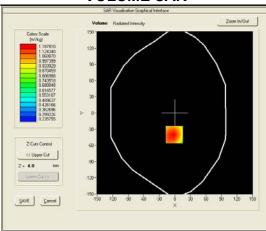
Product Description: Mobile Phone

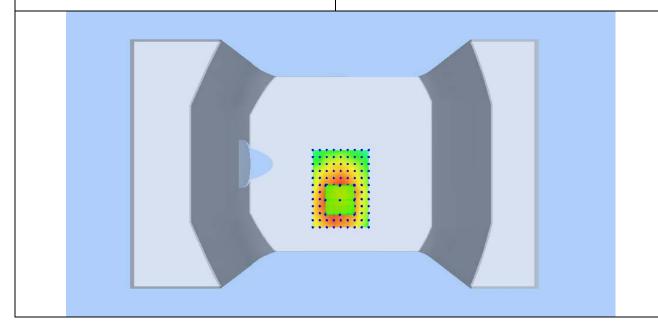
Model: s353

Test Date: Nov 4th, 2013

Medium(liquid type)	MSL_850
Frequency (MHz)	824.20000
Relative permittivity (real part)	53.73
Conductivity (S/m)	0.95
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	3.59
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-2.620000
SAR 10g (W/Kg)	0.839895
SAR 1g (W/Kg)	1.173872

SURFACE SAR







Test mode: GPRS850, Mid channel (Body-LCD DOWN)

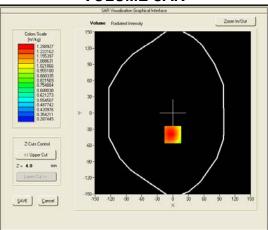
Product Description: Mobile Phone

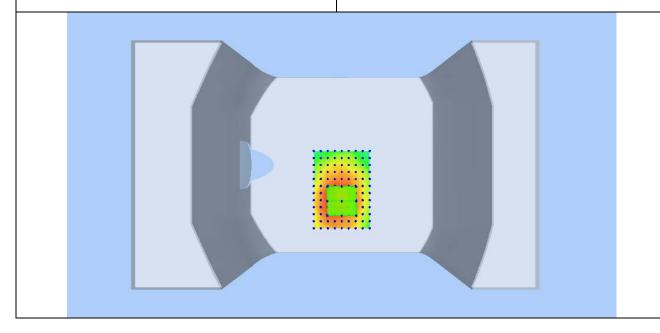
Model: s353

Test Date: Nov 4th, 2013

Medium(liquid type)	MSL_850
Frequency (MHz)	836.60000
Relative permittivity (real part)	53.73
Conductivity (S/m)	0.95
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	3.59
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-3.380000
SAR 10g (W/Kg)	0.922283
SAR 1g (W/Kg)	1.272936

SURFACE SAR







Test mode: GPRS850, High channel (Body-LCD DOWN)

Product Description: Mobile Phone

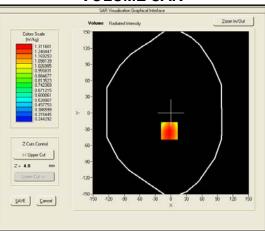
Model: s353

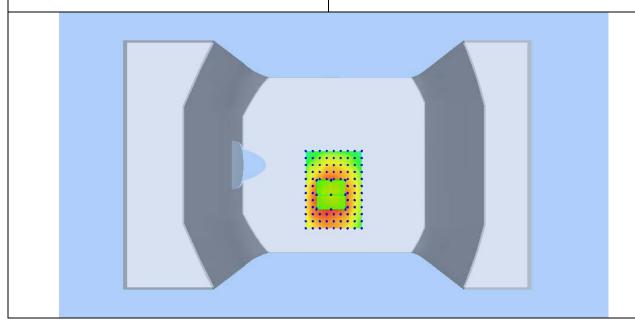
Test Date: Nov 4th, 2013

Medium(liquid type)	MSL_850
Frequency (MHz)	848.80000
Relative permittivity (real part)	53.73
Conductivity (S/m)	0.95
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	3.59
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	2.240000
SAR 10g (W/Kg)	0.909485
SAR 1g (W/Kg)	1.285899

SURFACE SAR

| SAME | Carcel | Second | Sec







Test mode: GPRS850, High channel (Body-LCD DOWN), repeated measured.

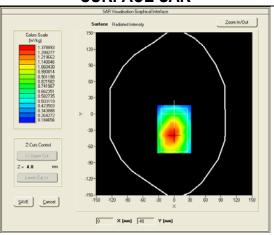
Product Description: Mobile Phone

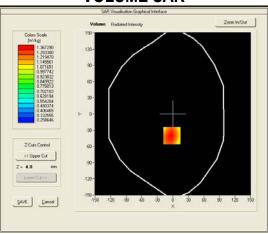
Model: s353

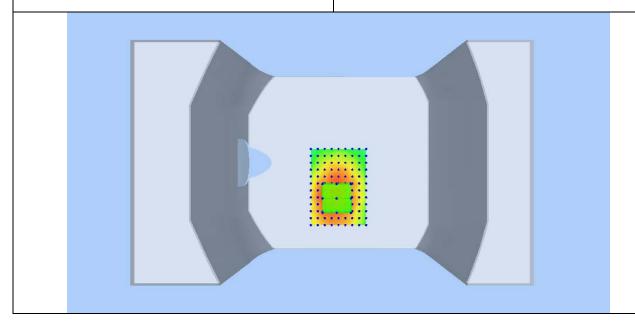
Test Date: Nov 4th, 2013

Medium(liquid type)	MSL_850
Frequency (MHz)	848.80000
Relative permittivity (real part)	53.73
Conductivity (S/m)	0.95
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	3.59
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	3.830000
SAR 10g (W/Kg)	0.956330
SAR 1g (W/Kg)	1.301149

SURFACE SAR









Test mode: GPRS850, High channel (Body-LCD DOWN), with headset

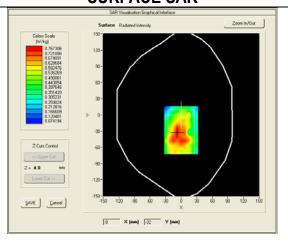
Product Description: Mobile Phone

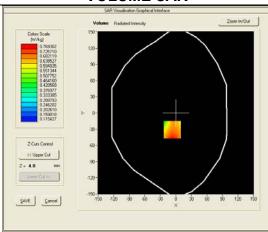
Model: s353

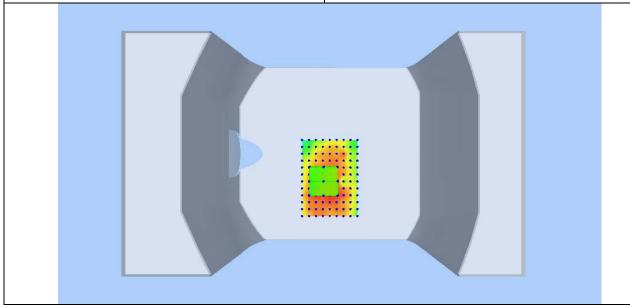
Test Date: Nov 4th, 2013

Medium(liquid type)	HSL_850
Frequency (MHz)	848.80000
Relative permittivity (real part)	53.73
Conductivity (S/m)	0.95
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	3.59
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-4.930000
SAR 10g (W/Kg)	0.513898
SAR 1g (W/Kg)	0.725049

SURFACE SAR









Test mode: WCDMA BAND V, Mid channel (Right Head Cheek)

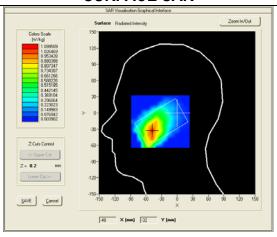
Product Description: Mobile Phone

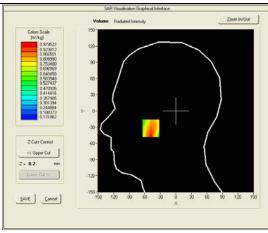
Model: s353

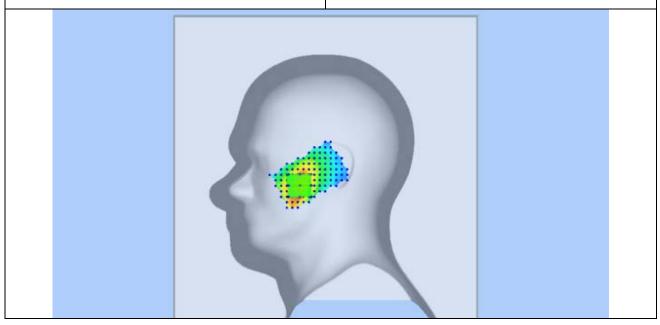
Test Date: Nov 4th, 2013

Medium(liquid type)	HSL_850
Frequency (MHz)	835.00000
Relative permittivity (real part)	40.43
Conductivity (S/m)	0.87
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	3.49
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.110000
SAR 10g (W/Kg)	0.640351
SAR 1g (W/Kg)	0.910670

SURFACE SAR









Test mode: WCDMA BAND V, Mid channel (Right Head Tilt)

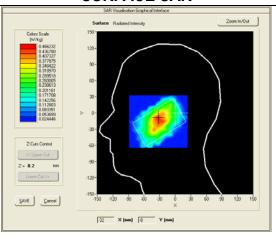
Product Description: Mobile Phone

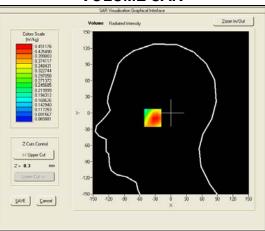
Model: s353

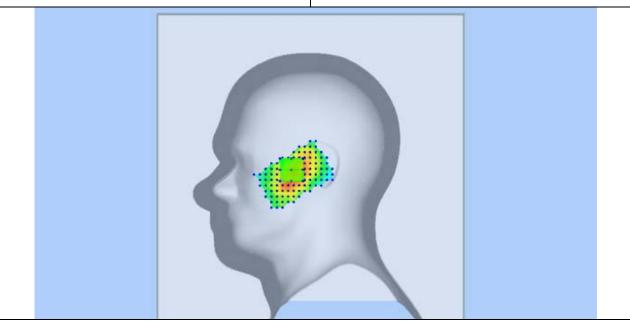
Test Date: Nov 4th, 2013

Medium(liquid type)	HSL_850
Frequency (MHz)	835.00000
Relative permittivity (real part)	40.43
Conductivity (S/m)	0.87
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	3.49
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-4.640000
SAR 10g (W/Kg)	0.315852
SAR 1g (W/Kg)	0.439438

SURFACE SAR









Test mode: WCDMA BAND V , Mid channel (Left Head Cheek)

Product Description: Mobile Phone

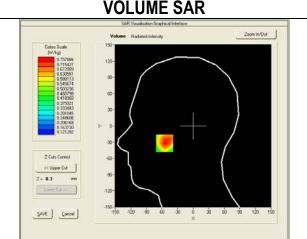
Model: s353

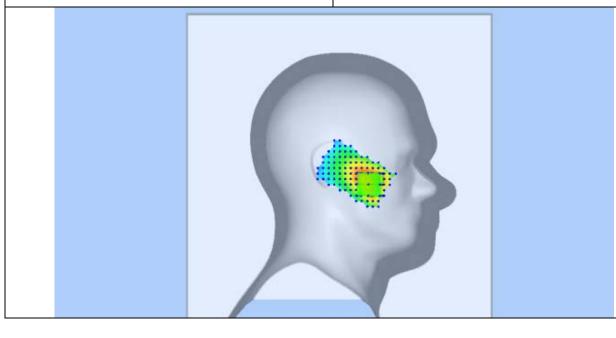
Test Date: Nov 4th, 2013

Medium(liquid type)	HSL_850
Frequency (MHz)	835.00000
Relative permittivity (real part)	40.43
Conductivity (S/m)	0.87
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	3.49
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	1.690000
SAR 10g (W/Kg)	0.526933
SAR 1g (W/Kg)	0.733570
CUDEACE CAD	VOLUME CAD

SURFACE SAR

| Columbia | Substitute | Subst







Test mode: WCDMA BAND V, Mid channel (Left Head Tilt)

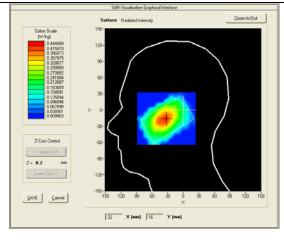
Product Description: Mobile Phone

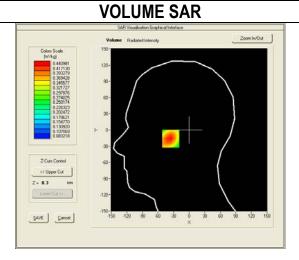
Model: s353

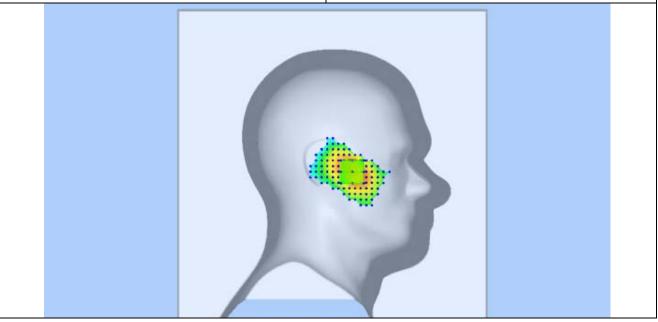
Test Date: Nov 4th, 2013

Medium(liquid type)	HSL_850
Frequency (MHz)	835.00000
Relative permittivity (real part)	40.43
Conductivity (S/m)	0.87
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	3.49
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	1.660000
SAR 10g (W/Kg)	0.305408
SAR 1g (W/Kg)	0.423313

SURFACE SAR









Test mode: WCDMA BAND V, Mid channel (Body-LCD UP)

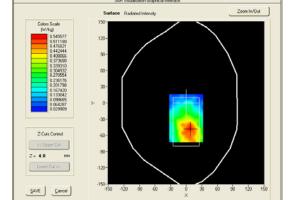
Product Description: Mobile Phone

Model: s353

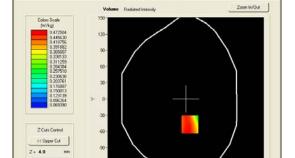
Test Date: Nov 4th, 2013

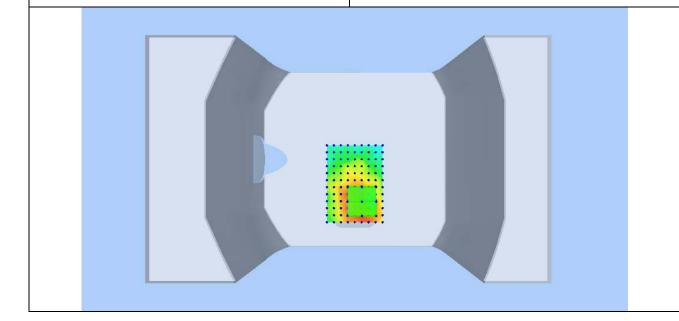
Medium(liquid type)	MSL_850
Frequency (MHz)	835.00000
Relative permittivity (real part)	53.73
Conductivity (S/m)	0.95
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	3.59
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-4.520000
SAR 10g (W/Kg)	0.346980
SAR 1g (W/Kg)	0.500215
SURFACE SAR	VOLUME SAR

SURFACE SAR



8 X (nm) 48 Y (nm)







Test mode: WCDMA BAND V, Mid channel (Body-LCD DOWN)

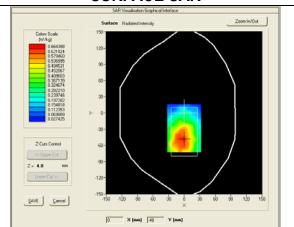
Product Description: Mobile Phone

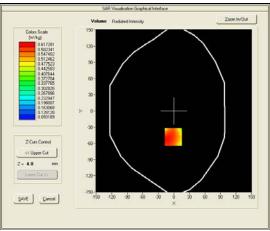
Model: s353

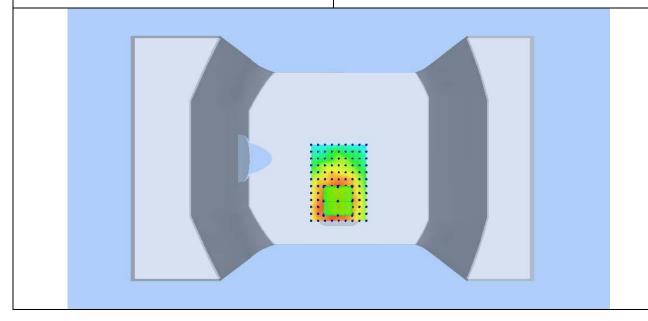
Test Date: Nov 4th, 2013

Medium(liquid type)	MSL_850
Frequency (MHz)	835.00000
Relative permittivity (real part)	53.73
Conductivity (S/m)	0.95
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	3.59
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	0.550000
SAR 10g (W/Kg)	0.486566
SAR 1g (W/Kg)	0.665727

SURFACE SAR









Test mode: GSM1900, high channel (Right Head Cheek)

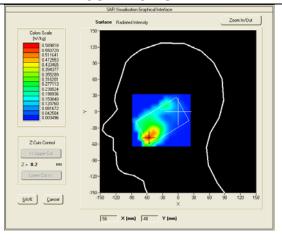
Product Description: Mobile Phone

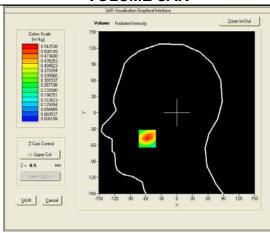
Model: s353

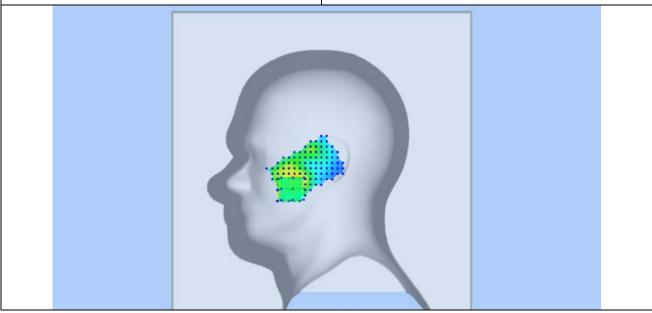
Test Date: Nov 5th, 2013

Medium(liquid type)	HSL_1900
Frequency (MHz)	1909.80000
Relative permittivity (real part)	39.75
Conductivity (S/m)	1.41
E-Field Probe	SN 09/13 EPG176
Crest factor	8.0
Conversion Factor	4.53
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.770000
SAR 10g (W/Kg)	0.292128
SAR 1g (W/Kg)	0.511669

SURFACE SAR









Test mode: GSM1900, high channel (Right Head Tilt)

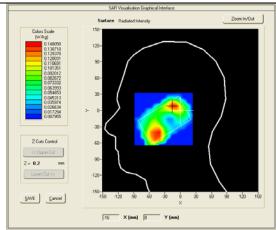
Product Description: Mobile Phone

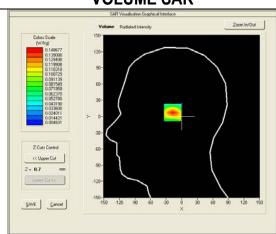
Model: s353

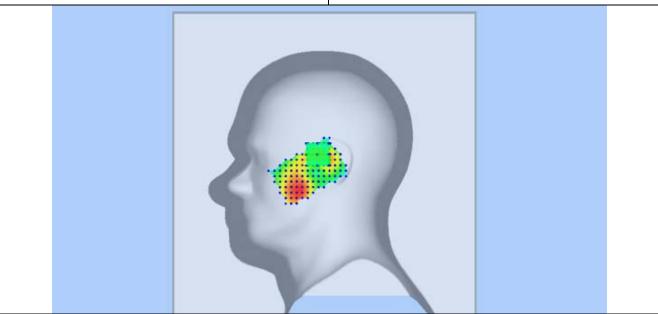
Test Date: Nov 5th, 2013

Medium(liquid type)	HSL_1900
Frequency (MHz)	1909.80000
Relative permittivity (real part)	39.75
Conductivity (S/m)	1.41
E-Field Probe	SN 09/13 EPG176
Crest factor	8.0
Conversion Factor	4.53
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-4.700000
SAR 10g (W/Kg)	0.077749
SAR 1g (W/Kg)	0.137748

SURFACE SAR









Test mode: GSM1900, high channel (Left Head Cheek)

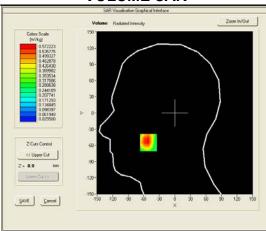
Product Description: Mobile Phone

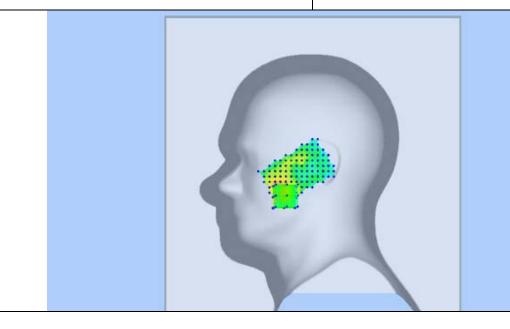
Model: s353

Test Date: Nov 5th, 2013

Medium(liquid type)	HSL_1900
Frequency (MHz)	1909.80000
Relative permittivity (real part)	39.75
Conductivity (S/m)	1.41
E-Field Probe	SN 09/13 EPG176
Crest factor	8.0
Conversion Factor	4.53
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	4.420000
SAR 10g (W/Kg)	0.354793
SAR 1g (W/Kg)	0.559161

SURFACE SAR







Test mode: GSM1900, high channel (Left Head Tilt)

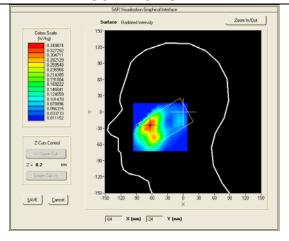
Product Description: Mobile Phone

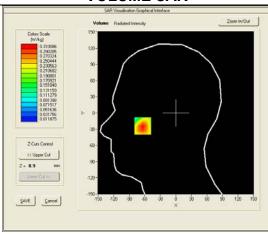
Model: s353

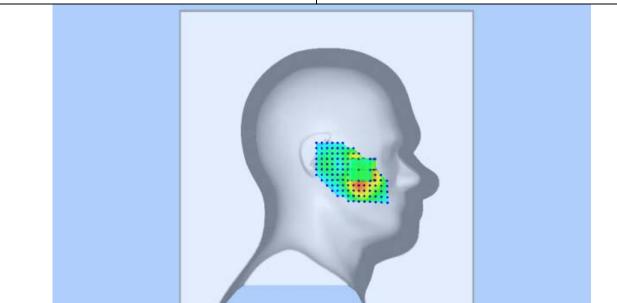
Test Date: Nov 5th, 2013

Medium(liquid type)	HSL_1900
Frequency (MHz)	1909.80000
Relative permittivity (real part)	39.75
Conductivity (S/m)	1.41
E-Field Probe	SN 09/13 EPG176
Crest factor	8.0
Conversion Factor	4.53
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-2.550000
SAR 10g (W/Kg)	0.174088
SAR 1g (W/Kg)	0.293810

SURFACE SAR









Test mode: GPRS1900, high channel (Body LCD-UP)

Product Description: Mobile Phone

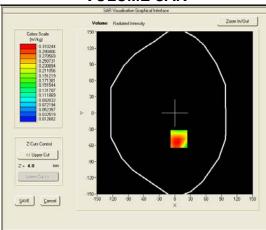
Model: s353

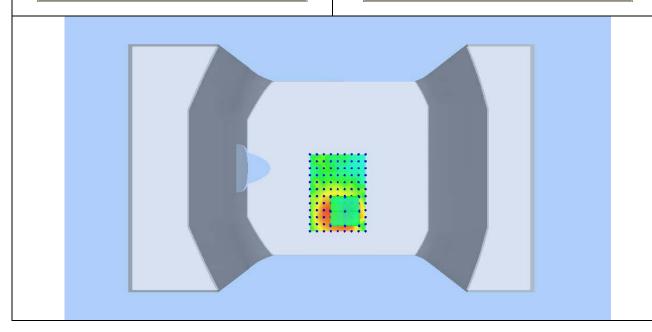
Test Date: Nov 5th, 2013

Medium(liquid type)	MSL_1900
Frequency (MHz)	1909.80000
Relative permittivity (real part)	51.72
Conductivity (S/m)	1.50
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	4.68
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	4.080000
SAR 10g (W/Kg)	0.180122
SAR 1g (W/Kg)	0.306031

SURFACE SAR

8 X (mm) 48 Y (mm)







Test mode: GPRS1900, Low channel (Body LCD-DOWN)

Product Description: Mobile Phone

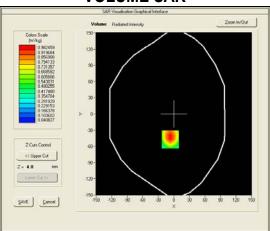
Model: s353

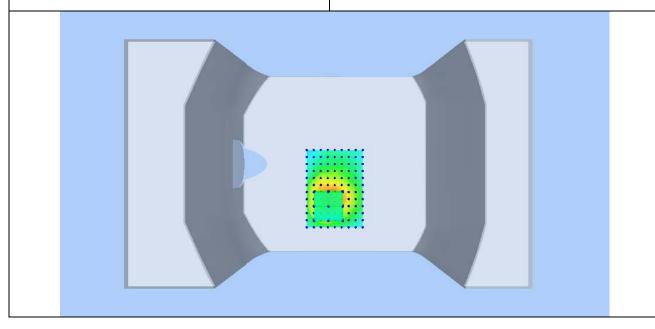
Test Date: Nov 5th, 2013

Medium(liquid type)	MSL_1900
Frequency (MHz)	1850.20000
Relative permittivity (real part)	51.72
Conductivity (S/m)	1.50
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	4.68
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.210000
SAR 10g (W/Kg)	0.534737
SAR 1g (W/Kg)	0.964394
	V01.000

SURFACE SAR

| SAFI Visualization Linguistics Integrinal Integrinal







Test mode: GPRS1900, mid channel (Body LCD-DOWN)

Product Description: Mobile Phone

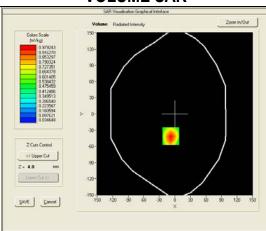
Model: s353

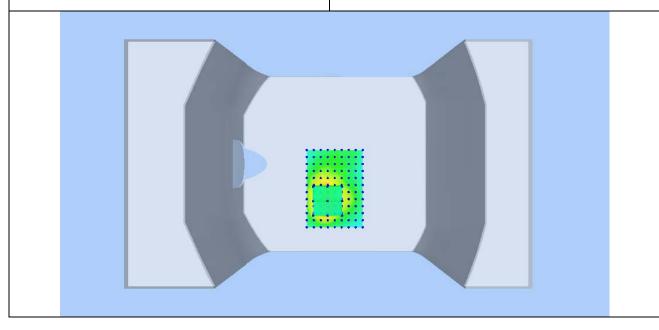
Test Date: Nov 5th, 2013

Medium(liquid type)	MSL_1900
Frequency (MHz)	1880.000
Relative permittivity (real part)	51.72
Conductivity (S/m)	1.50
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	4.68
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-4.060000
SAR 10g (W/Kg)	0.519146
SAR 1g (W/Kg)	0.945087
	V01.000

SURFACE SAR

| SAFE | Career | Server | Ser







Test mode: GPRS1900, high channel (Body LCD-DOWN)

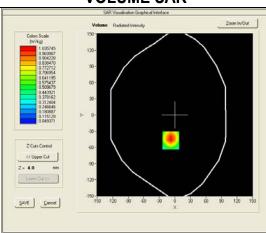
Product Description: Mobile Phone

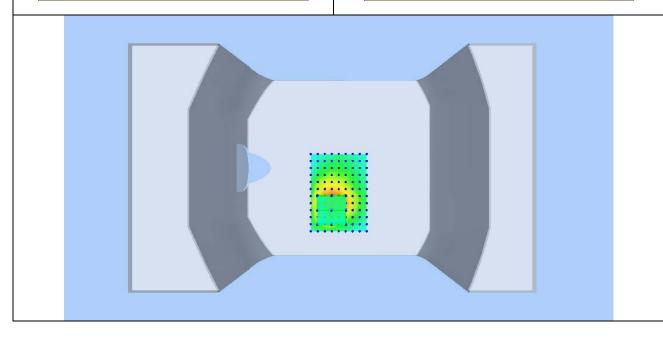
Model: s353

Test Date: Nov 5th, 2013

Medium(liquid type)	MSL_1900
Frequency (MHz)	1909.80000
Relative permittivity (real part)	51.72
Conductivity (S/m)	1.50
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	4.68
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-2.070000
SAR 10g (W/Kg)	0.559909
SAR 1g (W/Kg)	1.011000

SURFACE SAR





Test mode: GPRS1900, high channel (Body LCD-DOWN), repeated measured

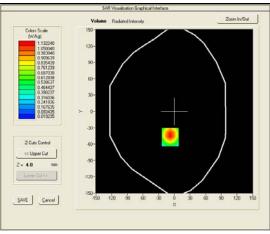
Product Description: Mobile Phone

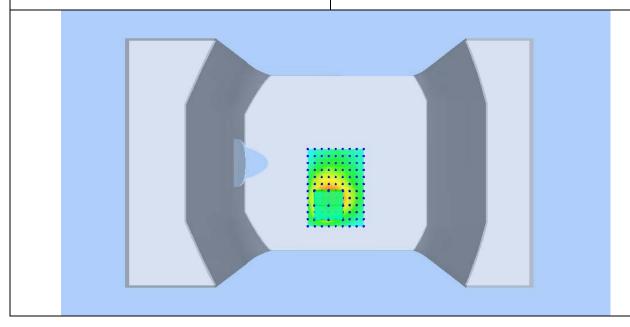
Model: s353

Test Date: Nov 5th, 2013

Medium(liquid type)	MSL_1900
Frequency (MHz)	1909.80000
Relative permittivity (real part)	51.72
Conductivity (S/m)	1.50
E-Field Probe	SN 09/13 EPG176
Crest factor	2.0
Conversion Factor	4.68
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-2.070000
SAR 10g (W/Kg)	0.568608
SAR 1g (W/Kg)	1.021070

SURFACE SAR







Test mode: WCDMA BAND II, Low channel (Right Head Cheek)

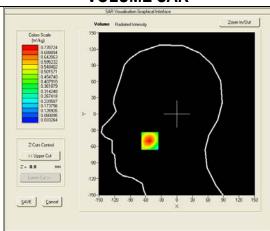
Product Description: Mobile Phone

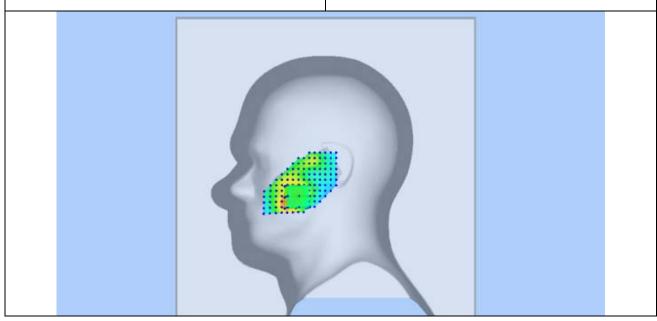
Model: s353

Test Date: Nov 5th, 2013

Medium(liquid type)	HSL_1900
Frequency (MHz)	1852.40000
Relative permittivity (real part)	39.75
Conductivity (S/m)	1.41
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	4.53
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	0.630000
SAR 10g (W/Kg)	0.402561
SAR 1g (W/Kg)	0.692384
	VALUE 0.5

SURFACE SAR







Test mode: WCDMA BAND II, Low channel (Right Head Tilt)

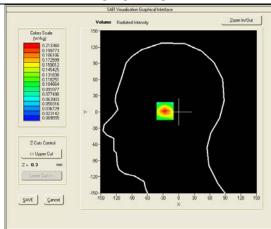
Product Description: Mobile Phone

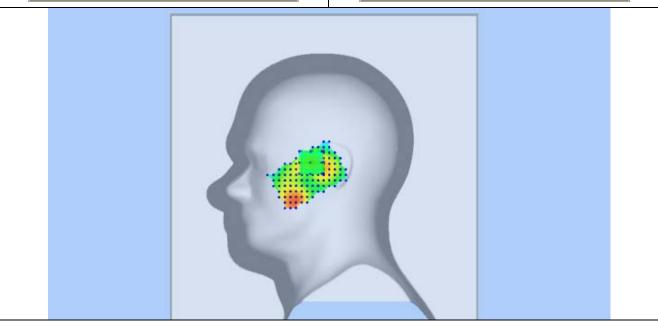
Model: s353

Test Date: Nov 5th, 2013

1852.40000 39.75 1.41 SN 09/13 EPG176
1.41
SN 09/13 FPG176
011 00/10 21 011 0
1.0
4.53
4mm
dx=8mm dy=8mm
5x5x7,dx=8mm dy=8mm dz=5mm
-3.010000
0.115087
0.197702

SURFACE SAR







Test mode: WCDMA BAND II, Low channel (Left Head Cheek)

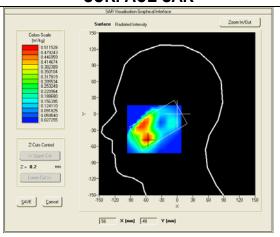
Product Description: Mobile Phone

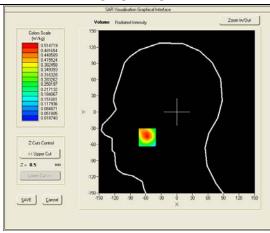
Model: s353

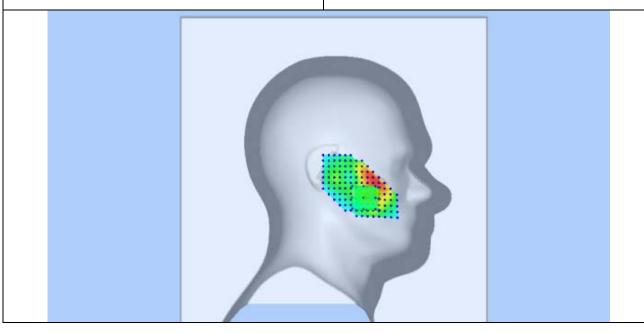
Test Date: Nov 5th, 2013

Medium(liquid type)	HSL_1900
Frequency (MHz)	1852.40000
Relative permittivity (real part)	39.75
Conductivity (S/m)	1.41
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	4.53
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.460000
SAR 10g (W/Kg)	0.285754
SAR 1g (W/Kg)	0.490020

SURFACE SAR









Test mode: WCDMA BAND II, Low channel (Left Head Tilt)

Product Description: Mobile Phone

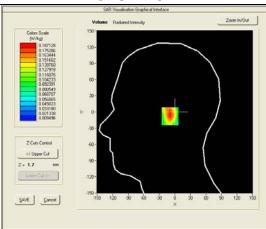
Model: s353

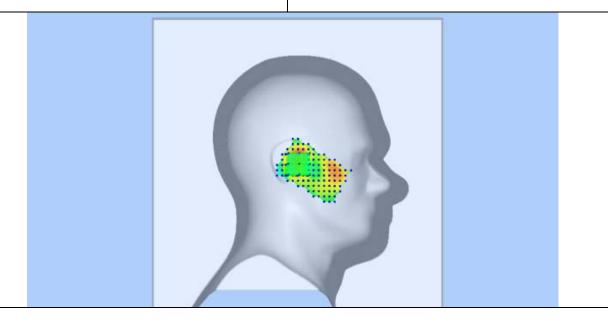
Test Date: Nov 5th, 2013

Medium(liquid type)	HSL_1900
Frequency (MHz)	1852.40000
Relative permittivity (real part)	39.75
Conductivity (S/m)	1.41
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	4.53
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-1.460000
SAR 10g (W/Kg)	0.104165
SAR 1g (W/Kg)	0.176498

SURFACE SAR

| SAME | Carcel | Second | Sec







Test mode: WCDMA BAND II, low channel (Body LCD-UP)

Product Description: Mobile Phone

Model: s353

Test Date: Nov 5th, 2013

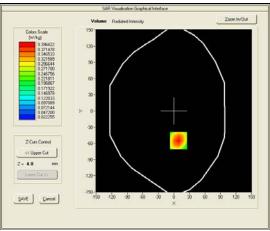
SAVE Cancel

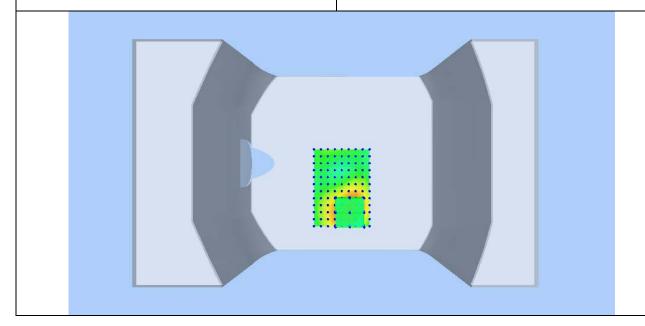
Medium(liquid type)	HSL_1900
Frequency (MHz)	1852.4000
Relative permittivity (real part)	51.72
Conductivity (S/m)	1.50
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	4.68
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	0.800000
SAR 10g (W/Kg)	0.234984
SAR 1g (W/Kg)	0.406798

SURFACE SAR

8 X (mm) 56 Y (mm)

Zoom In/Out







Test mode: WCDMA BAND II, Low channel (Body LCD-DOWN)

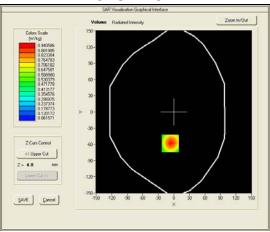
Product Description: Mobile Phone

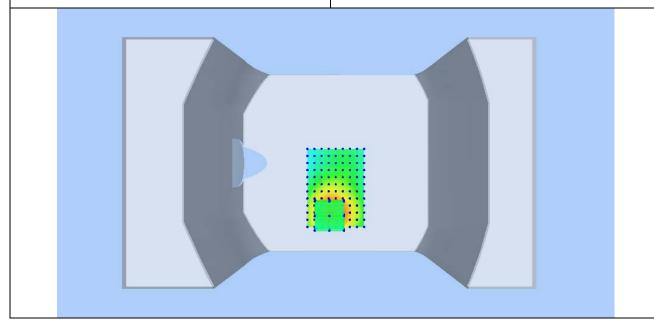
Model: s353

Test Date: Nov 5th, 2013

Medium(liquid type)	MSL_1900
Frequency (MHz)	1852.40000
Relative permittivity (real part)	51.72
Conductivity (S/m)	1.50
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	4.68
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.780000
SAR 10g (W/Kg)	0.564173
SAR 1g (W/Kg)	0.966121

SURFACE SAR







Test mode: WCDMA BAND $\rm II$, Low channel (Body LCD-DOWN), repeated measured

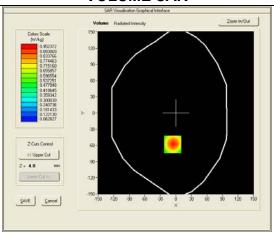
Product Description: Mobile Phone

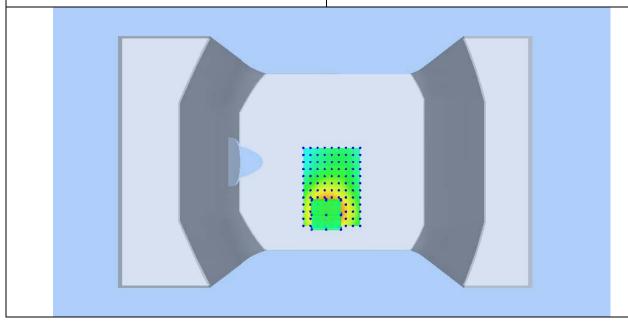
Model: s353

Test Date: Nov 5th, 2013

Medium(liquid type)	MSL_1900
Frequency (MHz)	1852.40000
Relative permittivity (real part)	51.72
Conductivity (S/m)	1.50
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	4.68
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.470000
SAR 10g (W/Kg)	0.570303
SAR 1g (W/Kg)	0.970082
	1/01 1111 0 4 5

SURFACE SAR







Test mode: WCDMA BAND II, Middle channel (Body LCD-DOWN)

Product Description: Mobile Phone

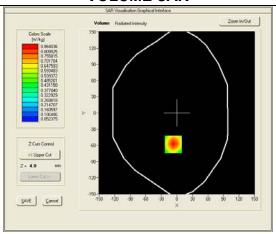
Model: s353

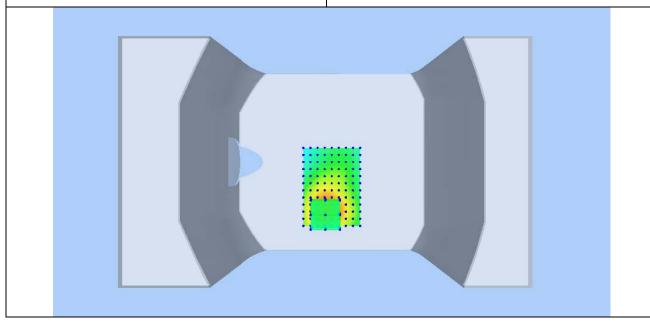
Test Date: Nov 5th, 2013

Medium(liquid type)	MSL_1900
Frequency (MHz)	1880.0000
Relative permittivity (real part)	51.72
Conductivity (S/m)	1.50
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	4.68
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.370000
SAR 10g (W/Kg)	0.513932
SAR 1g (W/Kg)	0.886408

SURFACE SAR

| SAF Variable Flag | Safe Variable | Surface | Surface







Test mode: WCDMA BAND II, High channel (Body LCD-DOWN)

Product Description: Mobile Phone

Model: s353

Test Date: Nov 5th, 2013

Medium(liquid type)	MSL_1900
Frequency (MHz)	1907.60000
Relative permittivity (real part)	51.72
Conductivity (S/m)	1.50
E-Field Probe	SN 09/13 EPG176
Crest factor	1.0
Conversion Factor	4.68
Sensor-Surface	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	0.460000
SAR 10g (W/Kg)	0.461034
SAR 1g (W/Kg)	0.802859

SURFACE SAR

