FCC SAR Measurement and Test Report

For

LAVA INTERNATIONAL (H.K) LIMITED

UNIT L 1/F MAU LAM COMM BLDG 16-18 MAU LAM ST,

JORDAN KL, HK

FCC ID: 2AEE8LAVAIRIS708

FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2003

KDB 865664 D01 v01r03

FCC Rules: KDB 865664 D02 v01r01

Product Description: Mobile Phone

Tested Model: iris 708

STR15038225H **Report No.:**

Tested Date: 2015-03-25 to 2015-03-27

Issued Date: 2015-03-31

Tested By: Lucy Wei / Engineer

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM. Test Technology Co., Ltd.

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1. General Information

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: LAVA INTERNATIONAL (H.K) LIMITED

Address of applicant: UNIT L 1/F MAU LAM COMM BLDG 16-18 MAU LAM ST,

JORDAN KL, HK

Manufacturer: LAVA INTERNATIONAL (H.K) LIMITED

Address of manufacturer: UNIT L 1/F MAU LAM COMM BLDG 16-18 MAU LAM ST,

JORDAN KL, HK

General Description of El	JT
Product Name:	Mobile Phone
Brand Name:	LAVA
Model No.:	iris 708
Hardware Version:	SP20_MB_V2.0
Software Version:	V1.0.1
Rated Voltage:	DC 3.8V Battery
Battery:	2000mAh
Device Category:	Portable Device

The EUT is dual band GSM 850/1900 MHz, WCDMA 850/1900MHz, Mobile Phone. The Mobile Phone is intended for speech and Multimedia Message Service (MMS) transmission. It is equipped with GPRS class/EDGE 12 for GSM 850/900/1800/1900 and Wi-Fi, Bluetooth, GPS, and camera functions. For more information see the following datasheet.

Note: The test data is gathered from a production sample, provided by the manufacturer.

Technical Characteristics of EUT					
2G					
Support Networks:	GSM, GPRS,EDGE				
Support Band:	GSM850/PCS1900				
Uplink Frequency:	GSM/GPRS/EDGE 850: 824~849MHz				
Opilitik Frequency.	GSM/GPRS/EDGE 1900: 1850~1910MHz				
Downlink Frequency:	GSM/GPRS/EDGE 850: 869~894MHz				
Downlink Frequency.	GSM/GPRS/EDGE 1900: 1930~1990MHz				
RF Output Power:	GSM850: 32.71dBm, GSM1900: 29.55dBm				
Type of Modulation:	GMSK,8PSK				
Antenna Type:	Internal Antenna				
Antenna Gain:	GSM850: -1.5dBi, GSM1900: -1.0dBi				
GPRS/EDGE Class:	Class 12				

3G				
Support Networks:	WCDMA, HSDPA, HSUPA			
Support Band:	WCDMA Band II, WCDMA Band V			
Haliak Francisco	WCDMA Band II: 1850~1980MHz			
Uplink Frequency:	WCDMA Band V: 824~849MHz			
Downlink Fraguency	WCDMA Band II: 1930~1990MHz			
Downlink Frequency:	WCDMA Band V: 869~894MHz			
RF Output Power:	WCDMA850: 22.48dBm, WCDMA1900: 22.24dBm			
Type of Modulation:	BPSK			
Antenna Type:	Integral Antenna			
Antenna Gain:	WCDMA850: -1.5dBi, WCDMA1900: -1.0dBi			
WIFI				
Support Standards:	802.11b, 802.11g, 802.11n			
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20)			
rrequericy rvarige.	2422-2452MHz for 802.11n(HT40)			
AV Output Power:	9.47dBm (Conducted)			
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM			
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps			
Quantity of Channels:	11 for 802.11b/g/n(HT20), 7 for 802.11n(HT40)			
Channel Separation:	5MHz			
Antenna Type:	Integral Antenna			
Antenna Gain:	0dBi			
Bluetooth	7			
Bluetooth Version:	V4.0			
Frequency Range:	2402-2480MHz			
AV Output Power:	3.56dBm (Conducted)			
Data Rate:	1Mbps, 2Mbps, 3Mbps			
Modulation:	GFSK, Pi/4 QDPSK, 8DPSK			
Quantity of Channels:	79/40			
Channel Separation:	1MHz/2MHz			
Antenna Type:	Integral Antenna			
Antenna Gain:	0dBi			

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1.2 Test Standards

The following report is prepared on behalf of the LAVA INTERNATIONAL (H.K) LIMITED in accordance with FCC 47 CFR Part 2.1093, ANSI/IEEE C95.1-1992, IEEE 1528-2003 and KDB 865664 D01 v01r03 and KDB 865664 D02 v01r01

The objective is to determine compliance with FCC Part 2.1093 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with KDB 865664 D01 v01r03 and KDB 865664 D02 v01r01. The public notice KDB 447498 D01 v05r02 for Mobile and Portable Devices RF Exposure Procedure also.

1.4 Test Facility

• FCC – Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

• Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

• CNAS Registration No.: L4062

Shenzhen SEM. Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101)

2. Summary of Test Results

The maximum results of Specific Absorption Rate (SAR) have found during testing are as follows:

Frequency Band	Position	SAR _{1g} (W/kg)	Scaled SAR _{1g} (W/kg)
GSM850	Head	0.0935	0.1000
GSM1900	Head	0.1608	0.1615
WCDMA Band V	Head	0.0326	0.0328
WCDMA Band II	Head	0.1915	0.2033
GSM850	Body-worn (10mm Gap)	0.2652	0.2835
GSM1900	Body-worn (10mm Gap)	0.2866	0.2879
WCDMA Band V	Body-worn (10mm Gap)	0.0710	0.0713
WCDMA Band II	Body-worn (10mm Gap)	0.2474	0.2627
GSM850	Hotspot (10mm Gap)	0.6661	0.6879
GSM1900	Hotspot (10mm Gap)	0.4577	0.5007
WCDMA Band V	Hotspot (10mm Gap)	0.0710	0.0713
WCDMA Band II	Hotspot (10mm Gap)	0.3318	0.3523

The highest reported SAR values for head, body-worn accessory and product specific (wireless router) are 0.20 W/kg, 0.29 W/kg and 0.69 W/kg respectively.

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2.1093 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedure specified in IEEE 1528-2003 and KDB 865664 D01 v01r03 and KDB 865664 D02 v01r01

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3. Specific Absorption Rate (SAR)

3.1 Introduction

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

3.2 SAR Definition

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

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

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

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

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

Where: C is the specific heat capacity, δ T is the temperature rise and δ t is the exposure duration, or related to the

electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

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

4. SAR Measurement System

4.1 The Measurement System

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

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

The following figure shows the system.



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

4.2 Probe

For the measurements the Specific Dosimetric E-Field Probe SSE5 SN 09/13 EP168 with following specifications is used

- Dynamic range: 0.01-100 W/kg

- Probe Length: 330 mm

Length of Individual Dipoles: 4.5 mmMaximum external diameter: 8 mmProbe Tip External Diameter: 5 mm

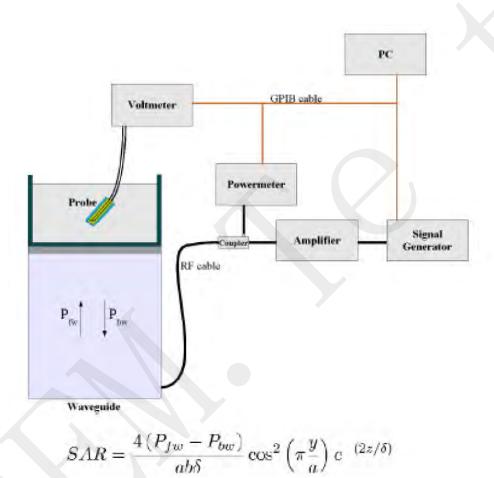
- Distance between dipoles / probe extremity: 2.7mm

- Probe linearity: <0.25 dB
- Axial Isotropy: <0.25 dB
- Spherical Isotropy: <0.50 dB

- Calibration range: 700 to 3000MHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and suface normal line:1ess than 30°

Probe calibration is realized, in compliance with EN 62209-1 and IEEE 1528 STD, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1 annexe technique using reference guide at the five frequencies.



Where:

Pfw = Forward Power Pbw = Backward Power

a and b = Waveguide dimensions

I = Skin depth

Keithley configuration:

Rate = Medium; Filter = ON; RDGS = 10; Filter type = Moving Average; Range auto after each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.

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

$$CF(N)=SAR(N)/Vlin(N)$$
 (N=1,2,3)

The linearised output voltage Vlin(N) is obtained from the displayed output voltage V(N) using

$$Vlin(N)=V(N)*(1+V(N)/DCP(N))$$
 (N=1,2,3)

where DCP is the diode compression point in mV.

4.3 Probe Calibration Process

Dosimetric Assessment Procedure

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

Free Space Assessment Procedure

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

Temperature Assessment Procedure

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

Where:
$$\Delta t = \text{exposure time (30 seconds)},$$

$$C = \text{heat capacity of tissue (brain or muscle)},$$

$$\Delta T = \text{temperature increase due to RF exposure}.$$

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

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

Where:

 $\sigma = \text{simulated tissue conductivity},$

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

4.4 Phantom

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

4.5 Device Holder

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



System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

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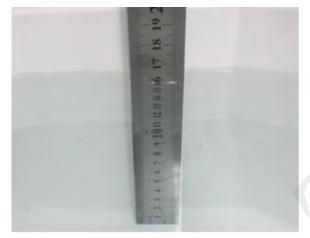
4.6 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
E-Field Probe	SATIMO	SSE5	SN 09/13 EP168	2015-03-16	2016-03-15
835MHz Dipole	SATIMO	SID835	SN 47/12 DIP 0G835-204	2015-03-16	2016-03-15
1900MHz Dipole	SATIMO	SID1900	SN 47/12 DIP 1G900-207	2015-03-16	2016-03-15
Dielectric Probe Kit	SATIMO	SCLMP	SN 47/12 OCPG49	2015-03-16	2016-03-15
SAM Phantom	SATIMO	SAM	SN/ 47/12 SAM95	N/A	N/A
MULTIMETER	KEITHLEY	Keithley 2000	4006367	2014-05-07	2015-05-06
Signal Generator	Rohde & Schwarz	SMR20	100047	2014-05-07	2015-05-06
Universal Tester	Rohde & Schwarz	CMU200	112012	2014-05-07	2015-05-06
Network Analyzer	HP	8753C	2901A00831	2014-05-07	2015-05-06
Data Acquisition Electronics	SATIMO	DAE4	915	2014-05-07	2015-05-06
Directional Couplers	Agilent	778D	20160	2014-05-07	2015-05-06

5. Tissue Simulating Liquids

5.1 Composition of Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with SMTIMO, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. Please see the following photos for the liquid height.



Liquid Height for Head SAR



Liquid Height for Body SAR

The Composition of Tissue Simulating Liquid

Frequency	Water	Salt	Triton	HEC	Preventol	DGBE			
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)			
			Head						
835	35.34	0.98	0.00	0.00	63.68	0.00			
1900	55.26	0.52	30.40	0.00	0.00	13.82			
	Body								
835	52.87	1.07	0.00	0.00	46.10	0.00			
1900	69.99	0.41	20.66	0.00	0.00	8.93			

5.2 Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 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 P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Toward Eve array	Н	ead	Во	ody
Target Frequency (MHz)	Conductivity	Permittivity	Conductivity	Permittivity
(141112)	(σ)	(E _r)	(σ)	(E _r)
150	0.76	52.3	0.80	61.9
300	0.87	45.3	0.92	58.2
450	0.87	43.5	0.94	56.7
835	0.90	41.5	0.97	55.2
900	0.97	41.5	1.05	55.0
915	0.98	41.5	1.06	55.0
1450	1.20	40.5	1.30	54.0
1610	1.29	40.3	1.40	53.8
1800-2000	1.40	40.0	1.52	53.3
2450	1.80	39.2	1.95	52.7
3000	2.40	38.5	2.73	52.0
5800	5.27	35.3	6.00	48.2

5.3 Tissue Calibration Result

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

Calibration Result for Dielectric Parameters of Tissue Simulating Liquid

Head Tissue Simulating Liquid									
Ewag	Conductivity Permittivity				7	Limit			
Freq. MHz.	Temp. (°C)	Reading	Target	Delta	Reading	Target	Delta	(%)	Date
WIIIZ.	(0)	(σ)	(σ)	(%)	$(\mathcal{E}\mathbf{r})$	$(\mathcal{E}\mathbf{r})$	(%)	(70)	
835	21.2	0.87	0.90	-3.33	41.11	41.50	-0.94	±5	2015-03-25
1900	21.3	1.38	1.40	-1.43	38.56	40.00	-3.60	±5	2015-03-25

Body Tissue Simulating Liquid									
Emag	Томан	Conductivity			Permittivity			Limit	
Freq. MHz.	Temp.	Reading	Target	Delta	Reading	Target	Delta	(%)	Date
TVIII 2.	(0)	(σ)	(σ)	(%)	$(\mathcal{E}\mathbf{r})$	$(\mathcal{E}\mathbf{r})$	(%)	(70)	
835	21.2	0.95	0.97	-2.06	54.85	55.20	-0.63	±5	2015-03-25
1900	21.3	1.50	1.52	-1.32	52.42	53.30	-1.65	±5	2015-03-25

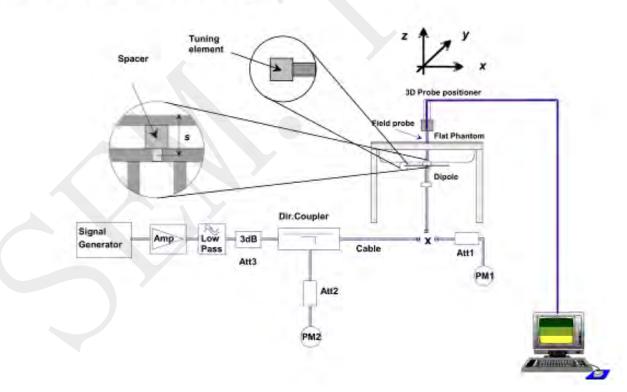
6. SAR Measurement Evaluation

6.1 Purpose of System Performance Check

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

6.2 System Setup

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



System Verification Setup Block Diagram



Setup Photo of Dipole Antenna

The output power on dipole port must be calibrated to 24dBm (250mW) before dipole is connected.

6.3 Validation Results

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %. Table 6.1 shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion.

Frequency	Targeted SAR _{1g}	Targeted SAR _{1g} Measured SAR _{1g}		Tolerance
MHz	z (W/kg) (W/kg)		(W/kg)	(%)
		Head		
835	9.56	2.41	9.65	0.94
1900	39.70	9.90	39.59	-0.28
		Body		
835	9.56	2.34	9.36	-2.09
1900	39.70	9.75	39.01	-1.74

Targeted and Measurement SAR

Please refer to Annex A for the plots of system performance check.

7. EUT Testing Position

7.1 Define Two Imaginary Lines on The Handset

- (a) The vertical centerline passes through two points on the front side of the handset the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- (b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.

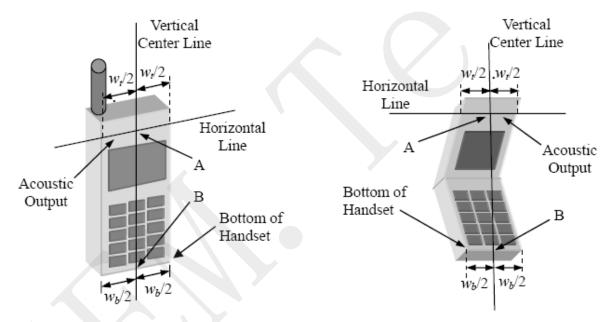


Illustration for Handset Vertical and Horizontal Reference Lines

7.2 Cheek Position

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE. (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig. 7.2).

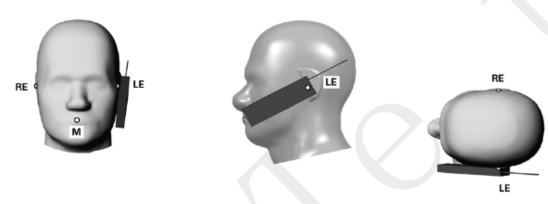
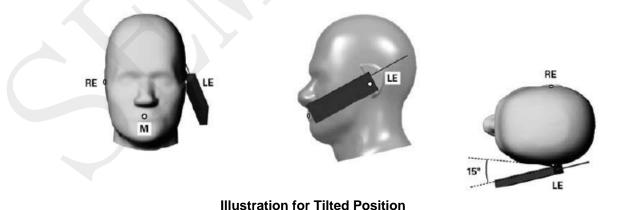


Illustration for Cheek Position

7.3 Tilted Position

- (a) To position the device in the "cheek" position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig. 7.3).



7.4 Body 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 10mm.

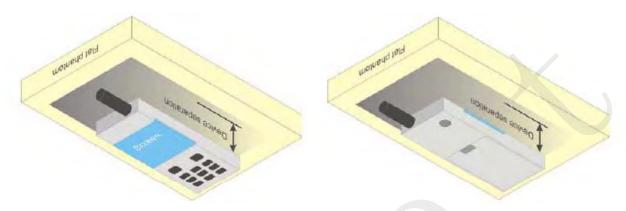
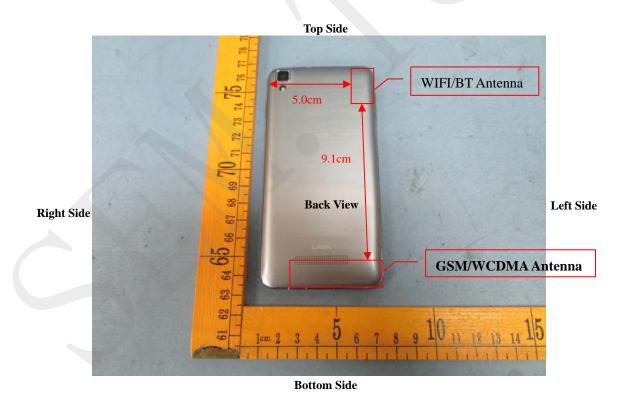


Illustration for Body Position

7.5 EUT Antenna Position



Block Diagram for EUT Antenna Position

7.6 EUT Testing Position

Head/Body-worn/Hotspot mode SAR assessments are required for this device. This EUT was tested in different positions for different SAR test modes, more information as below:

Head SAR tests									
Antennas Right Cheek Left Cheek Right Tilted Left Tilted									
WWAN	Yes	Yes	Yes	Yes					
WLAN	No	No	No	No					

	Hotspot SAR tests, Test distance: 10mm										
Antennas	Front	Back	Right Side	Left Side	Top Side	Bottom Side					
WWAN	Yes	Yes	Yes	Yes	No	Yes					
WLAN	No	No	No	No	No	No					

Body-worn SAR tests, Test distance: 10mm							
Antennas Front Back							
WWAN	Yes	Yes					
WLAN	No	No					

Remark:

1. Referring to KDB 941225 D06, when the overall device length and width are >= 9cm*5cm, the test separation is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

Please refer to Annex D for the EUT test setup photos.

8. SAR Measurement Procedures

8.1 Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the highest power channel.
- (b) Keep EUT to radiate maximum output power or 100% factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as Annex E demonstrates.
- (e) Set scan area, grid size and other setting on the SATIMO software.
- (f) Measure SAR results for the highest power channel on each testing position.
- (g) Find out the largest SAR result on these testing positions of each band
- (h) Measure SAR results for other channels in worst SAR testing position if the SAR of highest power channel is larger than 0.8 W/kg

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

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

8.2 Spatial Peak SAR Evaluation

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

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

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

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

8.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan measures 5x5x7 points with step size 8, 8 and 5 mm for 300 MHz to 3 GHz, and 8x8x8 points with step size 4, 4 and 2.5 mm for 3 GHz to 6 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

8.4 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing (step-size is 4, 4 and 2.5 mm). When all volume scan were completed, the software can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.5 SAR Averaged Methods

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

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

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

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In SATIMO measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

9. SAR Test Result

9.1 Conducted RF Output Power

	GSM - Burst Average Power (dBm)											
Band		GSM850			PCS1900							
Channel	128	190	251	512	661	810						
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880	1909.8						
GSM	32.71	32.53	32.59	29.28	29.28	^{29.48}						
GPRS (1 slot)	32.67	32.58	32.52	29.52	29.55	29.49						
GPRS (2 slots)	31.83	31.62	31.46	28.96	29.02	29.04						
GPRS (3 slots)	29.83	29.95	29.97	27.59	27.61	27.55						
GPRS (4 slots)	28.86	28.55	28.86	26.50	26.61	26.51						
EGPRS (1 slot)	26.79	26.59	26.34	26.97	26.59	26.45						
EGPRS (2 slots)	25.65	25.26	24.96	25.73	25.29	25.07						
EGPRS (3 slots)	23.29	22.96	22.54	23.50	22.96	22.44						
EGPRS (4 slots)	22.05	21.55	21.15	22.31	21.69	21.34						

GSI	GSM - Source-Based Time-Average Power (dBm)										
Band		GSM850		PCS1900							
Channel	128	190	251	512	661	810					
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880	1909.8					
GSM	23.71	23.53	23.59	20.28	20.28	20.48					
GPRS (1 slot)	23.67	23.58	23.52	20.52	20.55	20.49					
GPRS (2 slots)	25.83	25.62	25.46	22.96	23.02	23.04					
GPRS (3 slots)	25.58	25.70	25.72	23.34	23.36	23.30					
GPRS (4 slots)	25.86	25.55	25.86	23.50	<mark>23.61</mark>	23.51					
EGPRS (1 slot)	17.79	17.59	17.34	17.97	17.59	17.45					
EGPRS (2 slots)	19.65	19.26	18.96	19.73	19.29	19.07					
EGPRS (3 slots)	19.04	18.71	18.29	19.25	18.71	18.19					
EGPRS (4 slots)	19.05	18.55	18.15	19.31	18.69	18.34					

Note: The source-based time-averaged power is linearly scaled the maximum burst averaged power based on time slots. The calculated method are shown as below:

Source based time-average power = Burst averaged power - Duty cycle factor in dB

Remark:

- 1. For Head SAR testing, GSM should be evaluated, therefore the EUT was set in GSM for GSM850 and GSM1900 due to its highest source-based time-average power.
- 2. For Body SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS (4Tx slots) for GSM850 and GSM1900 due to its highest source-based time-average power.
- 3. Per KDB 447498 D01 v05r02, the maximum output power channel is used for SAR testing and for further SAR test reduction.
- 4. The DUT do not support DTM function.

	WCDMA - Average Power (dBm)											
Band	W	CDMA Band	l II	W	CDMA Band	I V						
Channel	9262	9262	9262	4132	9400	9538						
Frequency (MHz)	1852.4	1852.4	1852.4	826.4	1880.0	1907.6						
RMC 12.2k	22.24	22.15	22.12	22.33	<mark>22.48</mark>	22.04						
HSDPA Subtest-1	21.12	21.06	21.10	21.20	21.41	21.26						
HSDPA Subtest-2	20.76	21.67	21.39	21.13	21.14	21.70						
HSDPA Subtest-3	21.04	20.71	21.02	21.10	21.45	21.62						
HSDPA Subtest-4	21.40	20.87	20.94	20.93	21.29	21.16						
HSUPA Subtest-1	21.12	21.09	21.03	21.25	21.32	21.24						
HSUPA Subtest-2	20.92	20.89	21.17	21.63	21.72	20.81						
HSUPA Subtest-3	21.32	21.57	21.38	21.07	21.08	21.36						
HSUPA Subtest-4	21.58	21.05	21.33	21.30	20.95	21.03						
HSUPA Subtest-5	21.02	21.11	21.02	21.04	21.54	21.51						

Remark:

- 1. For Head SAR, per KDB 941225 D01 v02, RMC 12.2kbps setting is used to evaluate SAR. If AMR 12.2kbps power is < 1/4 dB higher than RMC, SAR tests with AMR 12.2kbps can be excluded.
- 2. For Body SAR, per KDB 941225 D01 v02, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA subset-1 output power is < 1/4 dB higher than RMC, and SAR with RMC 12.2kbps setting is \leq 1.2W/kg, HSDPA SAR evaluation can be excluded.

	WLAN - Maximum Average Power									
Test Mode	Test Mode Data Rate		Frequency (MHz)	Average Power (dBm)						
	- 11	CH 01	2412	9.37						
802.11b	1Mbps	CH 07	2437	9.36						
		CH 13	2462	9.14						
		CH 01	2412	9.30						
802.11g	54Mbps	CH 07	2437	9.10						
		CH 13	2462	9.06						
		CH 01	2412	<mark>9.47</mark>						
802.11n (20MHz)	MCS7	CH 07	247	9.34						
		CH 13	2462	9.33						
		CH 03	2422	9.11						
802.11n (40MHz)	MCS7	CH 07	2437	9.10						
		CH 11	2452	9.16						

Remark:

WLAN maximum output power is 9.47dBm, and Tune-Up output power is 9.5dBm. Per KDB 648474 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g

SAR and ≤ 7.5 for 10-g extremity SAR,16 where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation17
- The result is rounded to one decimal place for comparison

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
9.5	8.91	5	2.412	2.77	3

The exclusion thresholds is 2.77< 3, therefore, the RF exposure evaluation is not required.

Bluetooth - Maximum Average Power									
Test Mode	Data Rate	A	verage Power(dBm)						
1 est Mode	Data Kate	СН00	СН39	CH78					
GFSK	1Mbps	1.91	3.14	3.27					
4*π4DQPSK	2Mbps	1.54	2.66	2.80					
8DPSK	3Mbps	1.82	3.04	<mark>3.56</mark>					

Bluetooth - Maximum Average Power								
Tost Modo	Doto Doto	Data Data		Average Power				
Test Mode	Data Rate	Channel	(MHz)	(dBm)				
		CH 00	2402	-5.07				
BLE	1Mbps	CH 19	2440	-4.37				
		CH 39	2480	-4.57				

Remark:

Bluetooth maximum output power is 3.56dBm, and Tune-Up output power is 4.0dBm. Per KDB 648474 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR,16 where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation17
- The result is rounded to one decimal place for comparison

Tune-Up Power	Max. Power	Distance (mm)	Frequency	Result	Limit
(dBm)	(mW)	(GHz)	rtoodit	EIIIII	
4.0	2.51	5	2.480	0.79	3

The exclusion thresholds is 0.79< 3, therefore, the RF exposure evaluation is not required.

9.2 Test Results for Standalone SAR Test

Head SAR

	GSM850 – Head SAR Test												
Plot		Test Position	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled				
No.	Mode	Head	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g				
140.		Heau	CII. WIIIZ		(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)				
1	GSM	Right Cheek	128	824.4	32.71	33.0	1.0691	0.0935	0.1000				
2	GSM	Right Tilted	128	824.4	32.71	33.0	1.0691	0.0701	0.0749				
3	GSM	Left Cheek	128	824.4	32.71	33.0	1.0691	0.0890	0.0951				
4	GSM	Left Tilted	128	824.4	32.71	33.0	1.0691	0.0683	0.0730				

	GSM1900 – Head SAR Test											
Plot		Test Position – Head	Frequency		Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode		СН.	M Hz	Power	Limit	Factor	(W/kg)	SAR1g			
140.					(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)			
12	GSM	Right Cheek	810	1909.8	29.48	29.5	1.0046	<mark>0.1608</mark>	<mark>0.1615</mark>			
13	GSM	Right Tilted	810	1909.8	29.48	29.5	1.0046	0.0247	0.0248			
14	GSM	Left Cheek	810	1909.8	29.48	29.5	1.0046	0.1193	0.1199			
15	GSM	Left Tilted	810	1909.8	29.48	29.5	1.0046	0.0301	0.0302			

	WCDMA Band V – Head SAR Test											
Plot		Test Position	Frequency		Output	Rated	Scaling	SAR1g	Scaled			
	Mode	Head	Power Limit	Factor		SAR1g						
No.		Heau		WIIIZ	(dBm)	(dBm)	ractor	(W/kg)	(W/kg)			
23	RMC	Right Cheek	4182	836.4	22.48	22.5	1.0046	<mark>0.0326</mark>	<mark>0.0328</mark>			
24	RMC	Right Tilted	4182	836.4	22.48	22.5	1.0046	0.0273	0.0274			
25	RMC	Left Cheek	4182	836.4	22.48	22.5	1.0046	0.0310	0.0311			
26	RMC	Left Tilted	4182	836.4	22.48	22.5	1.0046	0.0260	0.0261			

	WCDMA Band II – Head SAR Test											
Plot		Tost Postion	Frequency		Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode	de Head CH. MHz	Power	Limit Factor		(W/kg)	SAR1g					
110.		Head CH. MHZ		(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)				
32	RMC	Right Cheek	9262	1852.4	22.24	22.5	1.0617	0.1289	0.1369			
33	RMC	Right Tilted	9262	1852.4	22.24	22.5	1.0617	0.0416	0.0442			
34	RMC	Left Cheek	9262	1852.4	22.24	22.5	1.0617	<mark>0.1915</mark>	0.2033			
35	RMC	Left Tilted	9262	1852.4	22.24	22.5	1.0617	0.0400	0.0425			

Remark: Per KDB 447498 D01 v05r02, if the highest output channel SAR for each exposure position \leq 0.8 W/kg other channels SAR tests are not necessary.

Body-worn SAR

	GSM850 – Body SAR Test (Gap: 10mm)											
Plot		Test Postion	Frequency		Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode	Body	СН.	MHz	Power (dBm)	Limit (dBm)	Factor	(W/kg)	SAR1g (W/kg)			
5	GSM	Back	128	824.4	32.71	33.0	1.0691	0.2652	0.2835			
6	GSM	Front	128	824.4	32.71	33.0	1.0691	0.1921	0.2054			

	GSM1900 – Body SAR Test (Gap: 10mm)											
Plot		Test Postion	Frequency		Output	Rated	Scaling	SAR1g	Scaled			
	No. Mode	Body	CII	MHz	Power	Limit	Factor	(W/kg)	SAR1g			
110.			СН.		(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)			
16	GSM	Back	810	1909.8	29.48	29.5	1.0046	<mark>0.2866</mark>	<mark>0.2879</mark>			
17	GSM	Front	810	1909.8	29.48	29.5	1.0046	0.2603	0.2615			

	WCDMA Band V – Body SAR Test (Gap: 10mm)											
Plot		Test Postion	Frequency		Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode	Body	СН.	MHz	Power (dBm)	Limit (dBm)	Factor	(W/kg)	SAR1g (W/kg)			
27	RMC 12.2k	Back	4182	836.4	22.48	22.5	1.0046	0.0710	0.0713			
28	RMC 12.2k	Front	4182	836.4	22.48	22.5	1.0046	0.0503	0.0505			

		WCDMA	Band II	– Body SA	R Test (Ga	ap: 10mm))		
Plot		Tost Postion	Frequency		Output	Rated	Scaling	SAR1g	Scaled
No.	Mode	Mode Test Postion Body CH.	MHz	Power	Limit	Factor	Ü	SAR1g	
110.			CH.	MITZ	(dBm)	(dBm)	ractor	(W/kg)	(W/kg)
36	RMC 12.2k	Back	9262	1852.4	22.24	22.5	1.0617	<mark>0.2474</mark>	0.2627
37	RMC 12.2k	Front	9262	1852.4	22.24	22.5	1.0617	0.1925	0.2044

Remark: Per KDB 447498 D01 v05r02, if the highest output channel SAR for each exposure position \leq 0.8 W/kg other channels SAR tests are not necessary.

Hotspot SAR

	GSM850 – Body SAR Test (Gap: 10mm)											
Plot		Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode	Body	СН.	MHz	Power	Limit	Scaling Factor	(W/kg)	SAR1g			
140.		Douy	CII.	WIIIZ	(dBm)	(dBm)			(W/kg)			
7	GPRS_4TX	Back Side	128	824.4	25.86	26.0	1.0328	0.5133	0.5301			
8	GPRS_4TX	Front Side	128	824.4	25.86	26.0	1.0328	<mark>0.6661</mark>	0.6879			
9	GPRS_4TX	Bottom side	128	824.4	25.86	26.0	1.0328	0.0698	0.0721			
10	GPRS_4TX	Right side	128	824.4	25.86	26.0	1.0328	0.3168	0.3272			
11	GPRS_4TX	Left side	128	824.4	25.86	26.0	1.0328	0.3134	0.3237			

	GSM1900 – Body SAR Test (Gap: 10mm)											
Plot		Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode	Body	СН.	Power Limit Scaling Factor		Ü	SAR1g					
110.		Douy	Cn.	MITZ	(dBm)	(dBm)	Factor	(W/kg)	(W/kg)			
18	GPRS_4TX	Back Side	661	1880.0	23.61	24.0	1.0940	0.3988	0.4363			
19	GPRS_4TX	Front Side	661	1880.0	23.61	24.0	1.0940	0.3922	0.4290			
20	GPRS_4TX	Bottom side	661	1880.0	23.61	24.0	1.0940	0.4577	0.5007			
21	GPRS_4TX	Right side	661	1880.0	23.61	24.0	1.0940	0.0534	0.0584			
22	GPRS_4TX	Left side	661	1880.0	23.61	24.0	1.0940	0.0971	0.1062			

	WCDMA Band V – Body SAR Test (Gap: 10mm)											
Plot	Mode	Test Postion - Body	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled			
No.			CH. MHz	МНа	Power	Limit	Factor	(W/kg)	SAR1g			
140.				(dBm)	(dBm)	Tactor	(W/Kg)	(W/kg)				
27	RMC 12.2k	Back Side	4182	836.4	22.48	22.5	1.0046	<mark>0.0710</mark>	<mark>0.0713</mark>			
28	RMC 12.2k	Front Side	4182	836.4	22.48	22.5	1.0046	0.0503	0.0505			
29	RMC 12.2k	Bottom side	4182	836.4	22.48	22.5	1.0046	0.0087	0.0087			
30	RMC 12.2k	Right side	4182	836.4	22.48	22.5	1.0046	0.0459	0.0461			
31	RMC 12.2k	Left side	4182	836.4	22.48	22.5	1.0046	0.0523	0.0525			

	WCDMA Band II – Body SAR Test (Gap: 10mm)											
Plot		Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode	Body	СП	МИа	Power	Limit	Factor	(W/kg)	SAR1g			
110.		Dody	CII.	CH. MHz (dBn	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)			
36	RMC 12.2k	Back Side	9262	1852.4	22.24	22.5	1.0617	0.2474	0.2627			
37	RMC 12.2k	Front Side	9262	1852.4	22.24	22.5	1.0617	0.1925	0.2044			
38	RMC 12.2k	Bottom side	9262	1852.4	22.24	22.5	1.0617	0.3318	0.3523			
39	RMC 12.2k	Right side	9262	1852.4	22.24	22.5	1.0617	0.0344	0.0365			
40	RMC 12.2k	Left side	9262	1852.4	22.24	22.5	1.0617	0.1222	0.1297			

Remark: Per KDB 447498 D01 v05r02, if the highest output channel SAR for each exposure position \leq 0.8 W/kg other channels SAR tests are not necessary.

9.3 Simultaneous Multi-band Transmission SAR Analysis

List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Head SAR	Body-worn SAR	Hotspot SAR
1	GSM + WLAN	Yes	Yes	-
2	GPRS + WLAN	-	-	Yes
3	WCDMA + WLAN	Yes	Yes	-
4	HSDPA + WLAN	-	-	Yes
5	HSUPA + WLAN	-	-	Yes
6	GSM + Bluetooth	Yes	Yes	-
7	GPRS + Bluetooth	-	-	Yes
8	WCDMA + Bluetooth	Yes	Yes	-
9	HSDPA + Bluetooth	-	-	Yes
10	HSUPA + Bluetooth	-	-	Yes

Remark:

- 1. GSM and WCDMA share the same antenna, and cannot transmit simultaneously.
- 2. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
- 3. According to the KDB 447498 D01v05r01, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]- $[\sqrt{f(GHz)/x}]$ W/kg for test separation distances \leq 50 mm;

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

For simultaneous transmission analysis, WIFI/Bluetooth SAR is estimated per KDB 447498 D01v05r01 as below:

WIFI:

Tune-Up	Max. Power	Distance (mm)	Frequency	V	SAR(1g)	SAR(1g)
Power (dBm)	(mW)	Distance (mm)	(GHz)	^	5mm	10mm
9.5	8.91	5/10	2.412	7.5	0.3690	0.1845

Bluetooth:

Tune-Up	Max. Power	Distance (mm)	Frequency	V	SAR(1g)	SAR(1g)
Power (dBm)	(mW)	Distance (mm)	(GHz)	^	5mm	10mm
4.0	2.51	5/10	2.480	7.5	0.1054	0.0527

4. The maximum SAR summation is calculated based on the same configuration and test position.

Head SAR WWAN and WLAN

	WW	AN	WLAN	Summed SAR	
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	(W/kg)	
Right Cheek	GSM850	0.1000	0.3690	0.4690	
Right Tilted	GSM850	0.0749	0.3690	0.4439	
Left Cheek	GSM850	0.0951	0.3690	0.4641	
Left Tilted	GSM850	0.0730	0.3690	0.442	
Right Cheek	GSM1900	0.1615	0.3690	0.5305	
Right Tilted	GSM1900	0.0248	0.3690	0.3938	
Left Cheek	GSM1900	0.1199	0.3690	0.4889	
Left Tilted	GSM1900	0.0302	0.3690	0.3992	
Right Cheek	WCDMA Band V	0.0328	0.3690	0.4018	
Right Tilted	WCDMA Band V	0.0274	0.3690	0.3964	
Left Cheek	WCDMA Band V	0.0311	0.3690	0.4001	
Left Tilted	WCDMA Band V	0.0261	0.3690	0.3951	
Right Cheek	WCDMA Band II	0.1369	0.3690	0.5059	
Right Tilted	WCDMA Band II	0.0442	0.3690	0.4132	
Left Cheek	WCDMA Band II	0.2033	0.3690	0.5723	
Left Tilted	WCDMA Band II	0.0425	0.3690	0.4115	

WWAN and Bluetooth

	WW	AN	Bluetooth	Crommod CAD	
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	Summed SAR (W/kg)	
Right Cheek	GSM850	0.1000	0.1054	0.2054	
Right Tilted	GSM850	0.0749	0.1054	0.1803	
Left Cheek	GSM850	0.0951	0.1054	0.2005	
Left Tilted	GSM850	0.0730	0.1054	0.1784	
Right Cheek	GSM1900	0.1615	0.1054	0.2669	
Right Tilted	GSM1900	0.0248	0.1054	0.1302	
Left Cheek	GSM1900	0.1199	0.1054	0.2253	
Left Tilted	GSM1900	0.0302	0.1054	0.1356	
Right Cheek	WCDMA Band V	0.0328	0.1054	0.1382	
Right Tilted	WCDMA Band V	0.0274	0.1054	0.1328	
Left Cheek	WCDMA Band V	0.0311	0.1054	0.1365	
Left Tilted	WCDMA Band V	0.0261	0.1054	0.1315	
Right Cheek	WCDMA Band II	0.1369	0.1054	0.2423	
Right Tilted	WCDMA Band II	0.0442	0.1054	0.1496	
Left Cheek	WCDMA Band II	0.2033	0.1054	0.3087	
Left Tilted	WCDMA Band II	0.0425	0.1054	0.1479	

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Body-worn SAR WWAN and WLAN

	WWAN	I	WLAN	Summed SAR
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	(W/kg)
Back	GSM850	0.2835	0.1845	0.468
Front	GSM850	0.2054	0.1845	0.3899
Back	GSM1900	0.2879	0.1845	0.4724
Front	GSM1900	0.2615	0.1845	0.446
Back	WCDMA Band V	0.0713	0.1845	0.2558
Front	WCDMA Band V	0.0505	0.1845	0.235
Back	WCDMA Band II	0.2627	0.1845	0.4472
Front	WCDMA Band II	0.2044	0.1845	0.3889

WWAN and Bluetooth

	WWAN	N	Bluetooth	Summed SAR
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	(W/kg)
Back	GSM850	0.2835	0.0527	0.3362
Front	GSM850	0.2054	0.0527	0.2581
Back	GSM1900	0.2879	0.0527	0.3406
Front	GSM1900	0.2615	0.0527	0.3142
Back	WCDMA Band V	0.0713	0.0527	0.124
Front	WCDMA Band V	0.0505	0.0527	0.1032
Back	WCDMA Band II	0.2627	0.0527	0.3154
Front	WCDMA Band II	0.2044	0.0527	0.2571

Hotspot SAR WWAN and WLAN

	WW	AN	WLAN	Cummed CAD	
Position	D J	Scaled SAR	Scaled SAR	Summed SAR	
Position	Band	(W/kg)	(W/kg)	(W/kg)	
Back	GSM850	0.5301	0.1845	0.7146	
Front	GSM850	0.6879	0.1845	0.8724	
Top side	GSM850		0.1845	0.1845	
Bottom side	GSM850	0.0721	0.1845	0.2566	
Right side	GSM850	0.3272	0.1845	0.5117	
Left side	GSM850	0.3237	0.1845	0.5082	
Back	GSM1900	0.4363	0.1845	0.6208	
Front	GSM1900	0.4290	0.1845	0.6135	
Top side	GSM1900		0.1845	0.1845	
Bottom side	GSM1900	0.5007	0.1845	0.6852	
Right side	GSM1900	0.0584	0.1845	0.2429	
Left side	GSM1900	0.1062	0.1845	0.2907	
Back	WCDMA Band V	0.0713	0.1845	0.2558	
Front	WCDMA Band V	0.0505	0.1845	0.235	
Top side	WCDMA Band V		0.1845	0.1845	
Bottom side	WCDMA Band V	0.0087	0.1845	0.1932	
Right side	WCDMA Band V	0.0461	0.1845	0.2306	
Left side	WCDMA Band V	0.0525	0.1845	0.237	
Back	WCDMA Band II	0.2627	0.1845	0.4472	
Front	WCDMA Band II	0.2044	0.1845	0.3889	
Top side	WCDMA Band II		0.1845	0.1845	
Bottom side	WCDMA Band II	0.3523	0.1845	0.5368	
Right side	WCDMA Band II	0.0365	0.1845	0.221	
Left side	WCDMA Band II	0.1297	0.1845	0.3142	

WWAN and Bluetooth

	WW	AN	Bluetooth	Summed SAR	
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	(W/kg)	
Back	GSM850	0.5301	0.0527	0.5828	
Front	GSM850	0.6879	0.0527	0.7406	
Top side	GSM850		0.0527	0.0527	
Bottom side	GSM850	0.0721	0.0527	0.1248	
Right side	GSM850	0.3272	0.0527	0.3799	
Left side	GSM850	0.3237	0.0527	0.3764	
Back	GSM1900	0.4363	0.0527	0.489	
Front	GSM1900	0.4290	0.0527	0.4817	
Top side	GSM1900		0.0527	0.0527	
Bottom side	GSM1900	0.5007	0.0527	0.5534	
Right side	GSM1900	0.0584	0.0527	0.1111	
Left side	GSM1900	0.1062	0.0527	0.1589	
Back	WCDMA Band V	0.0713	0.0527	0.124	
Front	WCDMA Band V	0.0505	0.0527	0.1032	
Top side	WCDMA Band V		0.0527	0.0527	
Bottom side	WCDMA Band V	0.0087	0.0527	0.0614	
Right side	WCDMA Band V	0.0461	0.0527	0.0988	
Left side	WCDMA Band V	0.0525	0.0527	0.1052	
Back	WCDMA Band II	0.2627	0.0527	0.3154	
Front	WCDMA Band II	0.2044	0.0527	0.2571	
Top side	WCDMA Band II		0.0527	0.0527	
Bottom side	WCDMA Band II	0.3523	0.0527	0.405	
Right side	WCDMA Band II	0.0365	0.0527	0.0892	
Left side	WCDMA Band II	0.1297	0.0527	0.1824	

Remark: For WIFI, BT the 1g SAR value is not being captured by the measurement system, the 1g-SAR value is conservatively used for simultaneous transmission analysis.

10. Measurement Uncertainty

10.1 Uncertainty for EUT SAR Test

a	b	С	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System			•						
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	8
Axial Isotropy	E.2.2	2.5	R	√3	(1_Cp)^1/2	(1_Cp)^1/2	1.02	1.02	œ
Hemispherical Isotropy	E.2.2	4.0	R	√3	(Cp)^1/2	(Cp)^1/2	1.63	1.63	œ
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	œ
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	œ
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	œ
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	œ
Reponse Time	E.2.7	3.0	R	√3	1	1	1.73	1.73	œ
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	œ
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	œ
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	√3	1	1	1.15	1.15	&
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	√3	1	1	0.03	0.03	8
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	√3	1	1	2.89	2.89	œ
Test Sample Related		7							
Test sample positioning	E.4.2.1	0.03	N	1	1	1	0.03	0.03	N-1
Device Holder Uncertainty	E.4.1.1	5.00	N	1	1	1	5.00	5.00	
Output power Variation - SAR drift measurement	6.6.2	12.02	R	√3	1	1	6.94	6.94	œ
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	√3	1	1	0.03	0.03	∞
Liquid conductivity - deviation from target value	E.3.2	5.00	R	√3	0.64	0.43	1.85	1.24	
Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	
Liquid permittivity - deviation from target value	E.3.2	0.37	R	√3	0.6	0.49	0.13	0.10	
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M

measurement uncertainty						
Combined Standard Uncertainty		RSS		12.98	12.53	
Expanded Uncertainty		K=2		25.32	24.43	
(95% Confidence interval)						

10.2 Uncertainty for System Performance Check

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol	Prob.	Div.	Ci (1g)	Ci (10g)	1g Ui	10g Ui	Vi
		(+- %)	Dist.				(+-%)	(+-%)	
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	√3	(1_Cp)^1/2	(1_Cp)^1/2	1.02	1.02	œ
Hemispherical Isotropy	E.2.2	4.0	R	√3	(Cp)^1/2	(Cp)^1/2	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	8
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	8
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	8
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	8
Reponse Time	E.2.7	3.0	R	√3	1	1	1.73	1.73	8
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	8
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	∞
Probe positioner Mechanical	E.6.2	2.0	R	√3	1	1	1.15	1.15	oc
Tolerance									
Probe positioning with respect to	E.6.3	0.05	R	√3	1	1	0.03	0.03	∞
Phantom Shell									
Extrapolation, interpolation and	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
integration Algoritms for Max.									
SAR Evaluation									
Dipole									
Dipole axis to liquid Distance	8,E.4.2	1.00	N	√3	1	1	0.58	0.58	N-1
Input power and SAR drift	8,6.6.2	12.02	R	√3	1	1	6.94	6.94	œ
measurement									
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and	E.3.1	0.05	R	√3	1	1	0.03	0.03	œ
thickness tolerances)									
Liquid conductivity - deviation	E.3.2	5.00	R	√3	0.64	0.43	1.85	1.24	
from target value									

Liquid conductivity -	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	
measurement uncertainty									
Liquid permittivity - deviation	E.3.2	0.37	R	$\sqrt{3}$	0.6	0.49	0.13	0.10	
from target value									
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
measurement uncertainty									
Combined Standard Uncertainty			RSS				12.00	11.50	
Expanded Uncertainty			K=2				23.39	22.43	
(95% Confidence interval)							_		

Annex A. Plots of System Performance Check

MEASUREMENT 1

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 03/25/2015

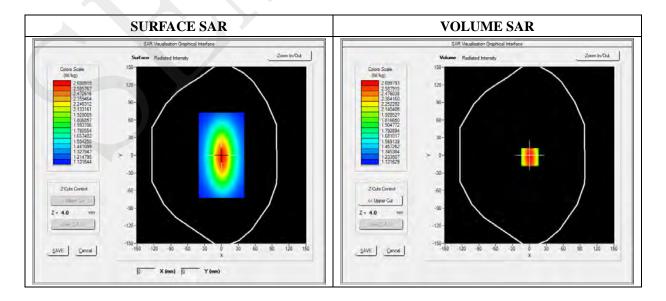
Measurement duration: 7 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	dx=8mm dy=8mm		
Phantom	Validation plane		
Device Position	Dipole		
Band	CW835		
Channels	Middle		
Signal	Duty Cycle 1:1		

Frequency (MHz)	835.000000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3

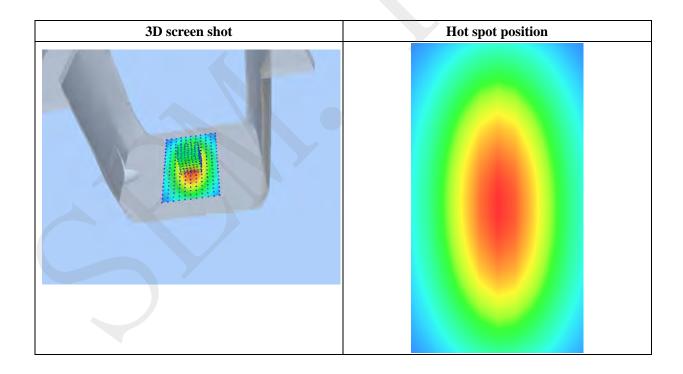


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.129489
SAR 1g (W/Kg)	2.41125

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	2.4900	1.8942	1.4811	1.3541	1.1123	1.0539
(W/Kg)							
	2.5	00-					
	2.3	75-					
	_ 2.1	50-	\longrightarrow				
		25-	+			_	
	S 4H 1.50	00-	++			_	
	ى 1.3	75-		\longrightarrow		_	
	1.1	50-				_	
	1.0	30-					
		0.0 2.5 5.0	7.5 10.0 12.515	5.0 17.520.0 22.5	25.0 27.530.0 3	32.535.0	
				Z (mm)			



For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 03/25/2015

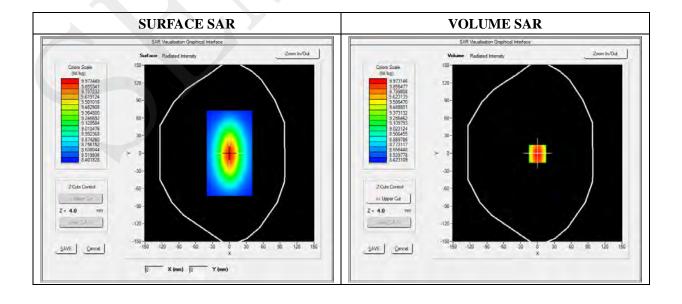
Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	Duty Cycle 1:1

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3

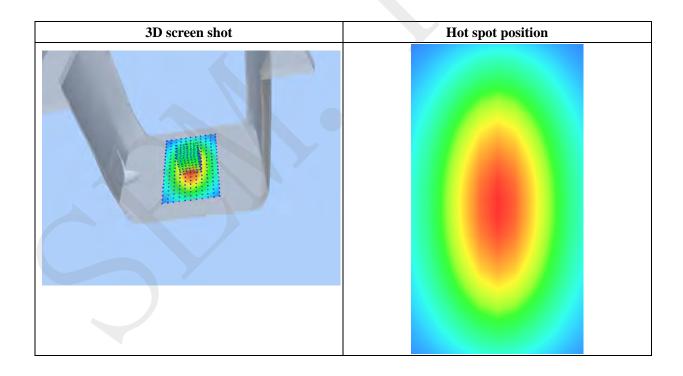


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	7.174526
SAR 1g (W/Kg)	9.903214

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00	
SAR	0.0000	10.2354	6.8400	5.0121	4.1189	3.0522	2.8424	
(W/Kg)								
	10.30)-						
	9.00)-						
	_		$\setminus \mid \cdot \mid \cdot \mid$					
	W/K 5.00 5.00)-						
	S 5.00)-						
	0.00							
	3.00							
	2.50	D-	7.5 10.0 12.5 15.	017.520.022.5	25.027.530.03	2.5 35.0		
0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.520.0 22.5 25.0 27.5 30.0 32.5 35.0 Z (mm)								



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 03/25/2015

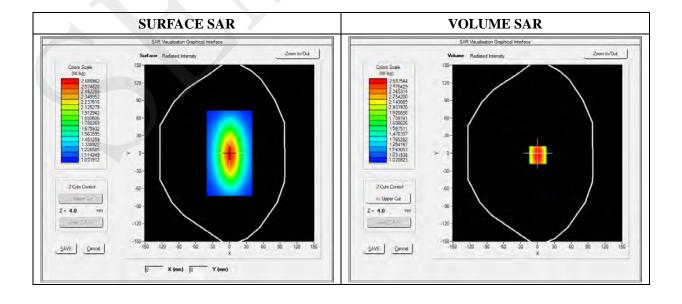
Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	Duty Cycle 1:1

Frequency (MHz)	835.000000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3

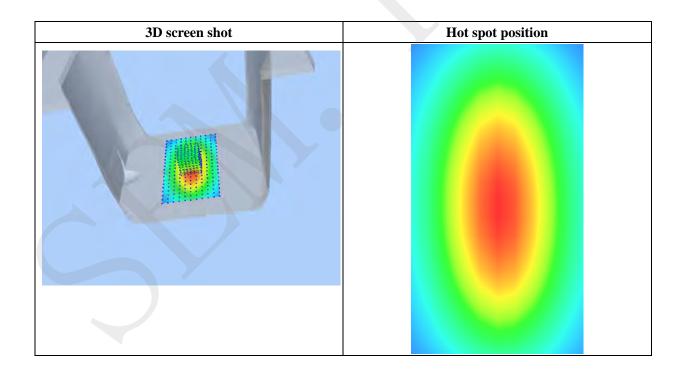


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.028956	
SAR 1g (W/Kg)	2.344211	

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.5789	1.1300	0.8795	0.5940	0.5011	0.5100
	2.60 1.45 — 1.20 WW 0.95 0.70 0.55 0.40			0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 32	.5 35.0	



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 03/25/2015

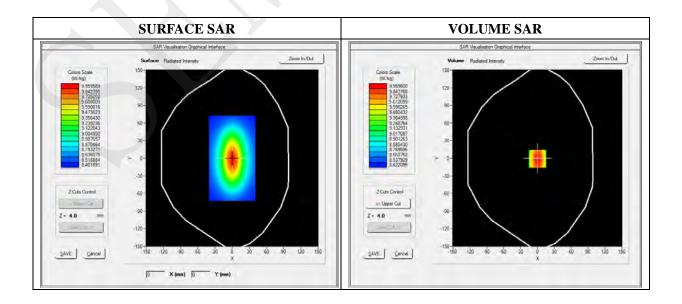
Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	dx=8mm dy=8mm	
Phantom	Validation plane	
Device Position	Dipole	
Band	CW1900	
Channels	Middle	
Signal	Duty Cycle 1:1	

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3

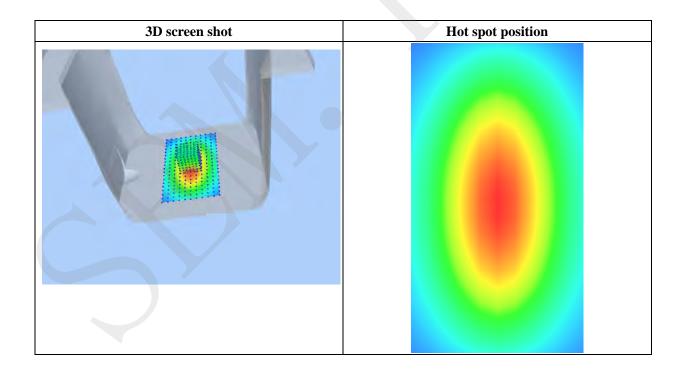


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.134651	
SAR 1g (W/Kg)	9.751550	

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2031	6.43001	4.9011	4.5325	3.1201	2.5024
	10.30 9.25 7.60 WW 6.20 4.70 3.00 2.00	0-	7.5 10.0 12.5 15.	.0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 3	2.5 35.0	



Annex B. Plots of SAR Measurement

TYPE	BAND	<u>PARAMETERS</u>
Phone	GSM850	Measurement 1:Right Head with Cheek device position on Low Channel in GSM mode
Phone	GSM850	Measurement 2: Right Head with Tilt device position on Low Channel in GSM mode
Phone	GSM850	Measurement 3: Left Head with Cheek device position on Low Channel in GSM mode
Phone	GSM850	Measurement 4: Left Head with Tilt device position on Low Channel in GSM mode
Phone	GSM850	Measurement 5: Flat Plane with Back(Body-worn) device position on Low Channel in GSM mode
Phone	GSM850	Measurement 6: Flat Plane with Front(Body-worn) device position on Low Channel in GSM mode
Phone	GPRS850_4TX	Measurement 7: Flat Plane with Back device position on Low Channel in GPRS mode
Phone	GPRS850_4TX	Measurement 8: Flat Plane with Front device position on Low Channel in GPRS mode
Phone	GPRS850_4TX	Measurement 9: Flat Plane with Bottom side device position on Low Channel in GPRS mode
Phone	GPRS850_4TX	Measurement 10: Flat Plane with Right side device position on Low Channel in GPRS mode
Phone	GPRS850_4TX	Measurement 11: Flat Plane with Left side device position on Low Channel in GPRS mode
Phone	GSM1900	Measurement 12: Right Head with Cheek device position on High Channel in GSM mode
Phone	GSM1900	Measurement 13: Right Head with Tilt device position on High Channel in GSM mode
Phone	GSM1900	Measurement 14: Left Head with Cheek device position on High Channel in GSM mode
Phone	GSM1900	Measurement 15: Left Head with Tilt device position on High Channel in GSM mode
Phone	GSM1900	Measurement 16: Flat Plane with Back(Body-worn) device position on High Channel in GSM mode
Phone	GSM1900	Measurement 17: Flat Plane with Front(Body-worn) device position on High Channel in GSM mode
Phone	GPRS1900_4TX	Measurement 18: Flat Plane with Back device position on Middle Channel in GPRS mode
Phone	GPRS1900_4TX	Measurement 19: Flat Plane with Front device position on Middle Channel in GPRS mode

Dhomo	CDDC1000 ATV	Measurement 20: Flat Plane with Bottom side device
Phone	GPRS1900_4TX	position on Middle Channel in GPRS mode
Phone	GPRS1900_4TX	Measurement 21: Flat Plane with Right side device
1 Hone	GIRS1900_41A	position on Middle Channel in GPRS mode
Phone	GPRS1900_4TX	Measurement 22: Flat Plane with Left side device
1 Hone	G1161700_1111	position on Middle Channel in GPRS mode
Phone	WCDMA850 RMC	Measurement 23: Right Head with Cheek device
		position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 24: Right Head with Tilt device position
	_	on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 25: Left Head with Cheek device position
		on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 26: Left Head with Tilt device position
		on Middle Channel in WCDMA mode Measurement 27: Flat Plane with Back device position
Phone	WCDMA850_RMC	on Middle Channel in WCDMA mode
		Measurement 28: Flat Plane with Front device position
Phone	WCDMA850_RMC	on Middle Channel in WCDMA mode
		Measurement 29: Flat Plane with Bottom side device
Phone	WCDMA850_RMC	position on Middle Channel in WCDMA mode
-	***************************************	Measurement 30: Flat Plane with Right side device
Phone	WCDMA850_RMC	position on Middle Channel in WCDMA mode
Di	WCDMA 050 DMC	Measurement 31: Flat Plane with Left side device
Phone	WCDMA850_RMC	position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 32: Right Head with Cheek device
1 Hone	WCDMA1900_RMC	position on Low Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 33: Right Head with Tilt device position
Thone	Weblandou_kivie	on Low Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 34: Left Head with Cheek device position
1 110110	,, epinii) od_iniie	on Low Channel in WCDMA mode
Phone	WCDMA1900 RMC	Measurement 35: Left Head with Tilt device position
		on Low Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 36: Flat Plane with Back device position
	_	on Low Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 37: Flat Plane with Front device position
		on Low Channel in WCDMA mode Maggurament 29: Flot Plane with Pottom side devices
Phone	WCDMA1900_RMC	Measurement 38: Flat Plane with Bottom side device position on Low Channel in WCDMA mode
		Measurement 39: Flat Plane with Right side device
Phone	WCDMA1900_RMC	position on Low Channel in WCDMA mode
		Measurement 40: Flat Plane with Left side device
Phone	Phone WCDMA1900_RMC	position on Low Channel in WCDMA mode
		Position on Low Chamiel in WCDMA mode

Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

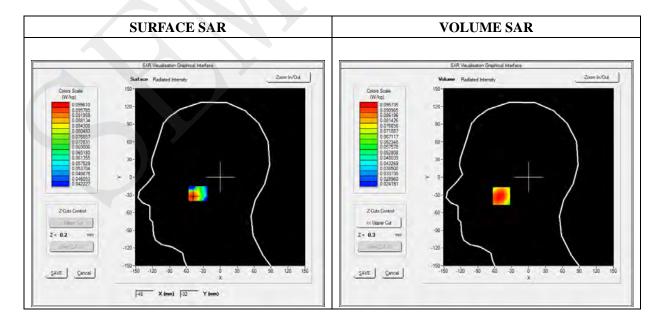
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Cheek		
Band	GSM850		
Channels	Low		
Signal	Duty Cycle 1:8.3		

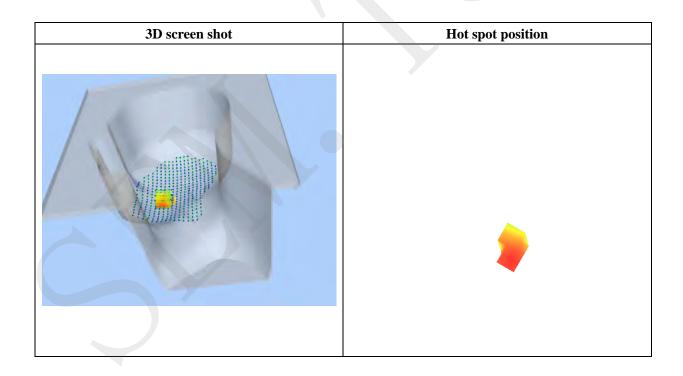
Frequency (MHz)	824.200012
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-48.00, Y=-32.00

SAR 10g (W/Kg)	0.076180
SAR 1g (W/Kg)	0.093518

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0952	0.0869	0.0769	0.0661
	0.095-				
	0.090-				
	0.085-	\rightarrow			
	₹ 0.080 -		\rightarrow		
	≥ 0.075-		+		
	0.080		++		
	0.065		- 		
	0.060 -				
	0.055				
l	0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

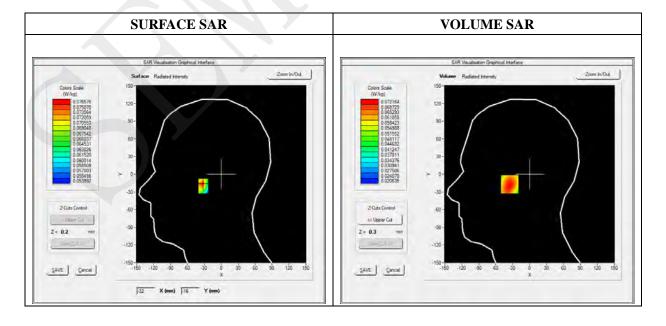
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Tilt		
Band	GSM850		
Channels	Low		
Signal	Duty Cycle 1:8.3		

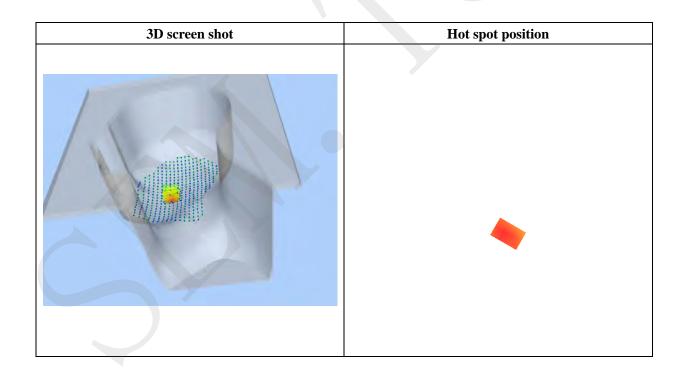
Frequency (MHz)	824.200012
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-34.00, Y=-17.00

SAR 10g (W/Kg)	0.055758	
SAR 1g (W/Kg)	0.070104	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0722	0.0635	0.0546	0.0458
	0.072-				
	0.065-				
	ੁ 0.060 –	\rightarrow	+		
	■ 0.060 - ■ 0.055 -	\rightarrow	\rightarrow		
	₩ 0.050-	\rightarrow	$+$ λ		
	0.045				
	0.037-	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		
	0.037- 0.0 2.	5 5.0 7.5 10.0		20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

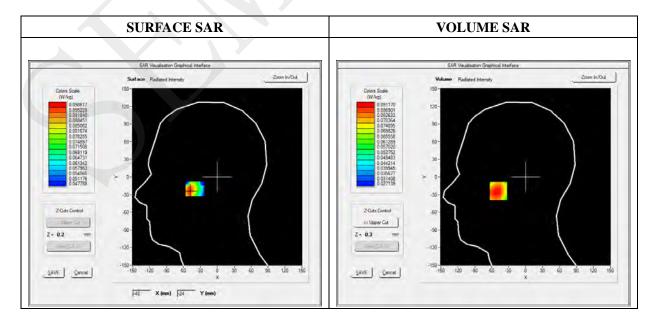
Measurement duration: 11 minutes 48 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Cheek		
Band	GSM850		
Channels	Low		
Signal	Duty Cycle 1:8.3		

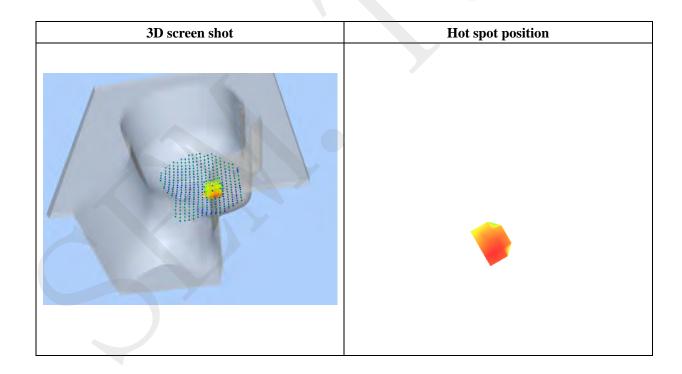
Frequency (MHz)	824.200012	
Relative Permittivity (real part)	41.110245	
Conductivity (S/m)	0.871245	
Power Variation (%)	1.814580	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-48.00, Y=-24.00

SAR 10g (W/Kg)	0.070784	
SAR 1g (W/Kg)	0.088984	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0905	0.0785	0.0675	0.0575
	0.091- 0.085- 0.080- 0.075- 0.070- EX 0.065- 0.060- 0.055- 0.048- 0.0 2.0	5 5.0 7.5 10.0) 12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

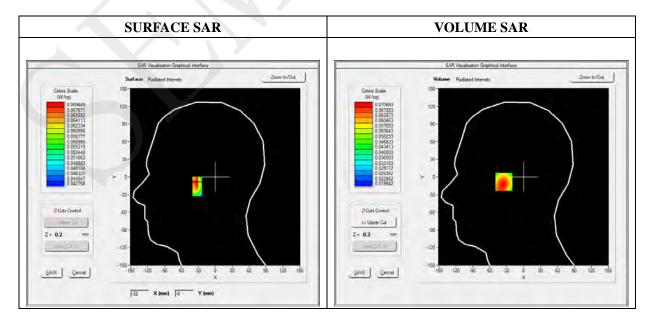
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Tilt		
Band	GSM850		
Channels	Low		
Signal	Duty Cycle 1:8.3		

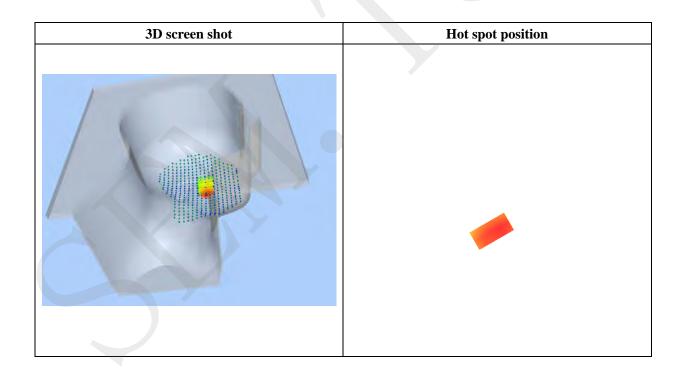
Frequency (MHz)	824.200012	
Relative Permittivity (real part)	41.110245	
Conductivity (S/m)	0.871245	
Power Variation (%)	1.814580	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-34.00, Y=-8.00

SAR 10g (W/Kg)	0.052804
SAR 1g (W/Kg)	0.068262

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0701	0.0553	0.0459	0.0403
	0.070-				
	0.065-	\longrightarrow			
	0.060-	\longrightarrow			
	0.055-				
	8 0.050 -		\longrightarrow		
	0.045-		\rightarrow		
	0.040-				
	0.036-			20.0	
	0.0 2.	5 5.0 7.5 10.0) 12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	
			- , ,		



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

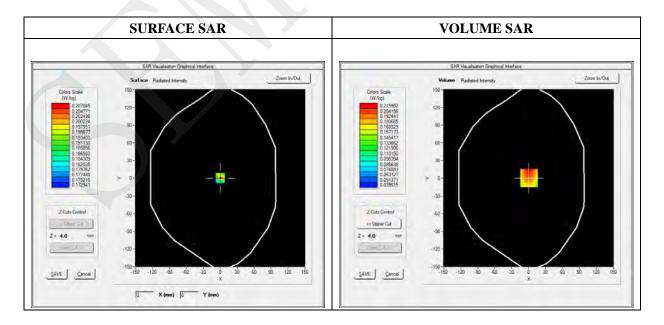
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Back(Body-worn)	
Band	GSM850	
Channels	Low	
Signal	Duty Cycle 1:8.3	

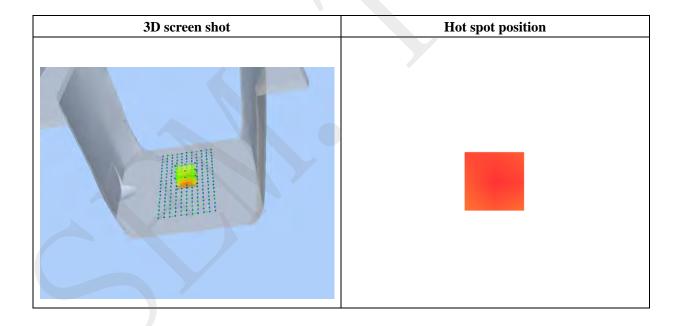
Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	0.196067	
SAR 1g (W/Kg)	0.265152	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1995	0.1570	0.1261	0.1037
	0.20- 0.18- 0.16- 0.16- 0.14- 0.12- 0.10- 0.09- 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

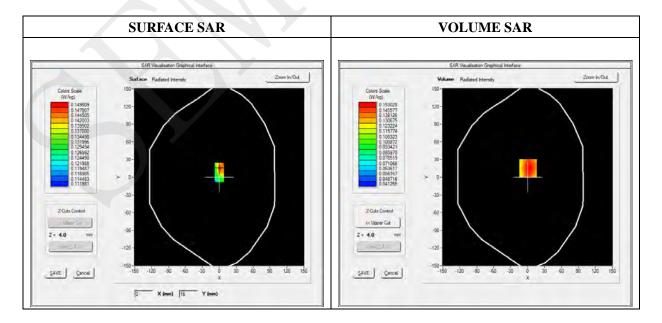
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Front(Body-worn)	
Band	GSM850	
Channels	Low	
Signal	Duty Cycle 1:8.3	

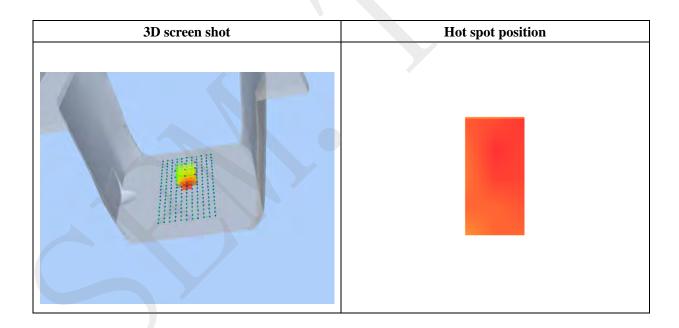
Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=15.00

SAR 10g (W/Kg)	0.146391
SAR 1g (W/Kg)	0.192099

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1530	0.1182	0.0939	0.0772
	0.15- 0.14- 0.12- WW 0.10- 0.08- 0.06- 0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

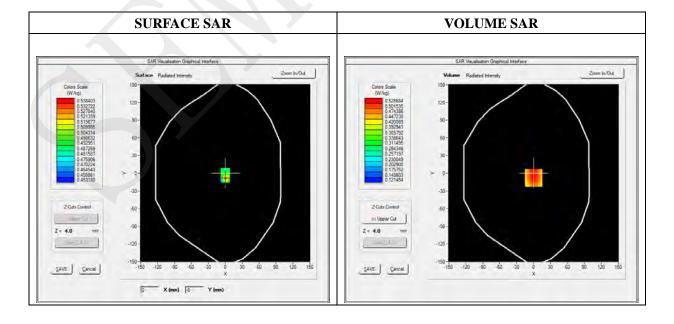
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat plane	
Device Position	Back	
Band	GPRS850_4TX	
Channels	Low	
Signal	Duty Cycle 1:2	

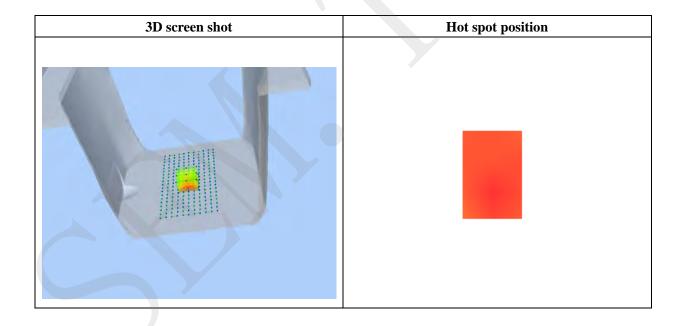
Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=-8.00

SAR 10g (W/Kg)	0.388054	
SAR 1g (W/Kg)	0.513327	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5254	0.4302	0.3498	0.2818
	0.53- 0.50- 0.45- 0.45- 0.40- WW 0.35- 0.30- 0.25- 0.22- 0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

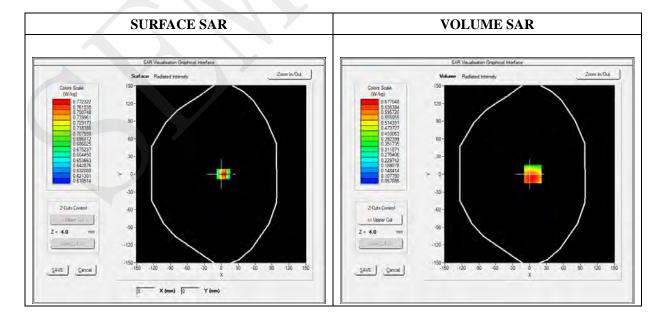
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Front		
Band	GPRS850_4TX		
Channels	Low		
Signal	Duty Cycle 1:2		

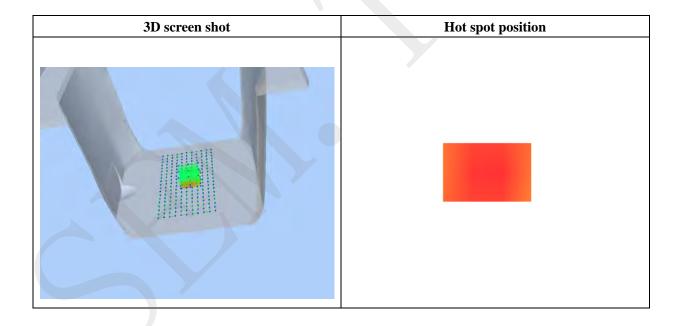
Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=6.00, Y=0.00

SAR 10g (W/Kg)	0.376239	
SAR 1g (W/Kg)	0.666110	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.6464	0.2790	0.1484	0.1266
	0.6- 0.6- 0.5- 0.5- 0.4- WW 0.4- 0.3- 0.2- 0.1- 0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	
	·				



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

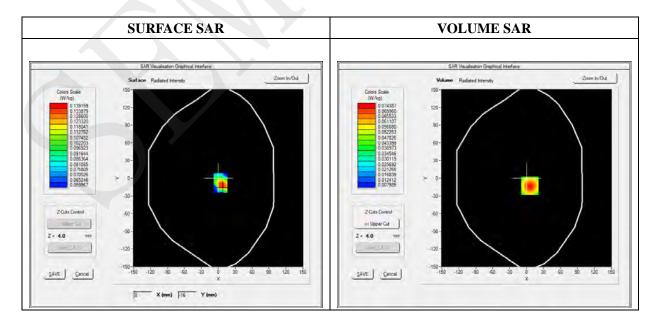
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat plane	
Device Position	Bottom	
Band	GPRS850_4TX	
Channels	Low	
Signal	Duty Cycle 1:2	

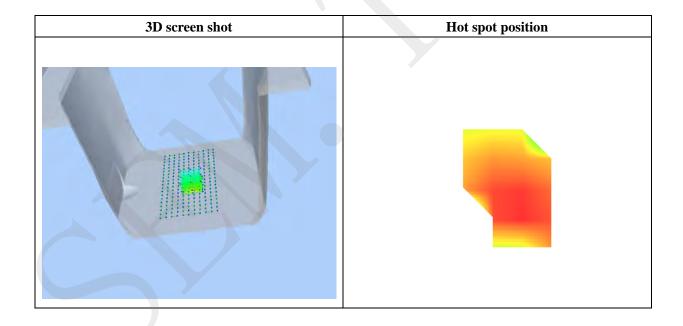
Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=6.00, Y=-13.00

SAR 10g (W/Kg)	0.044249
SAR 1g (W/Kg)	0.069803

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0744	0.0475	0.0312	0.0215
	0.07- 0.06- W 0.05- W 0.04- 0.03- 0.02- 0.01- 0.0 2.5				



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

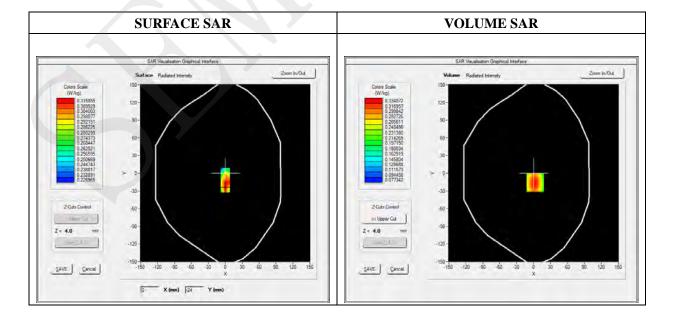
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Right side		
Band	GPRS850_4TX		
Channels	Low		
Signal	Duty Cycle 1:2		

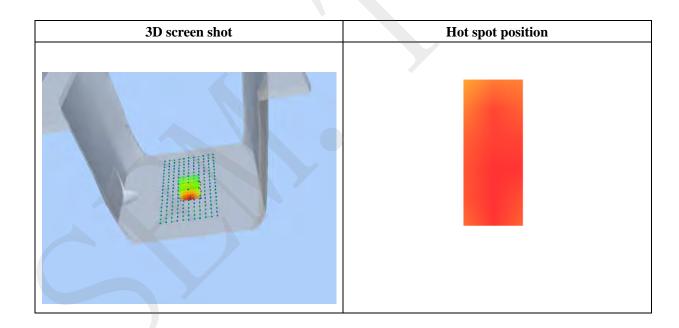
Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=3.00, Y=-16.00

SAR 10g (W/Kg)	0.222223
SAR 1g (W/Kg)	0.316752

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3341	0.2456	0.1827	0.1380
	0.33- 0.30- 0.25- WW 0.20- 0.15- 0.10- 0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

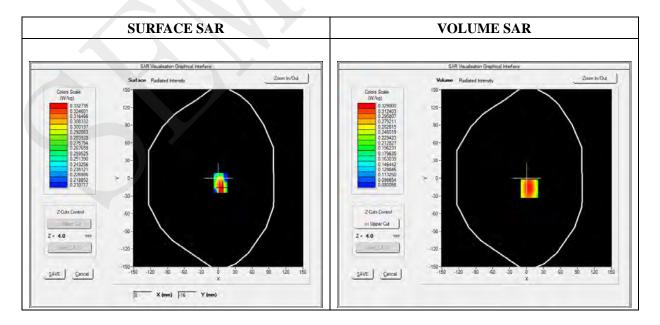
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Left side		
Band	GPRS850_4TX		
Channels	Low		
Signal	Duty Cycle 1:2		

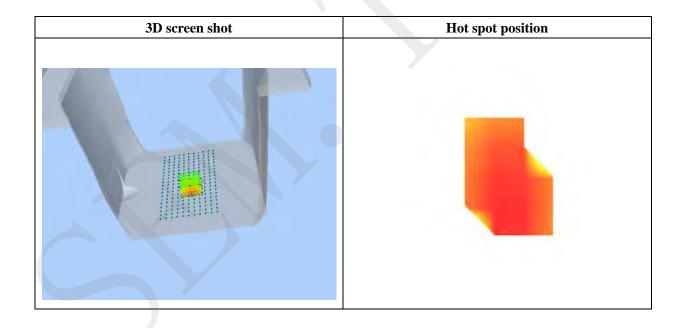
Frequency (MHz)	824.200012		
Relative Permittivity (real part)	54.851214		
Conductivity (S/m)	0.951454		
Power Variation (%)	0.901472		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=5.00, Y=-18.00

SAR 10g (W/Kg)	0.224587	
SAR 1g (W/Kg)	0.313448	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3290	0.2508	0.1910	0.1452
	0.33 - 0.30 - 0.25 - WW 0.20 - 0.15 - 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

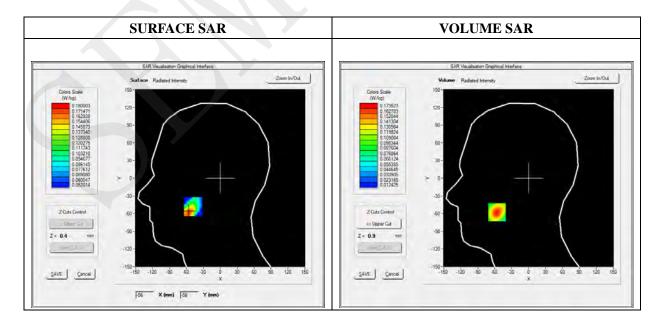
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Cheek		
Band	GSM1900		
Channels	High		
Signal	Duty Cycle 1:8.3		

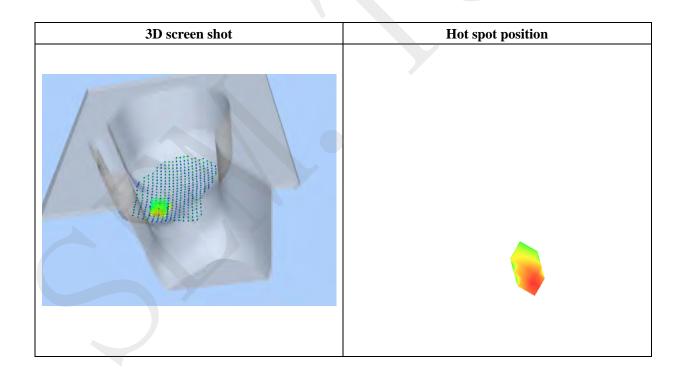
Frequency (MHz)	1909.800049		
Relative Permittivity (real part)	38.560124		
Conductivity (S/m)	1.380369		
Power Variation (%)	1.022540		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-56.00, Y=-58.00

SAR 10g (W/Kg)	0.101316	
SAR 1g (W/Kg)	0.160817	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1735	0.1219	0.0865	0.0623
	0.17- 0.16- 0.14- By 0.12- WW 0.10- 0.08- 0.06- 0.04- 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

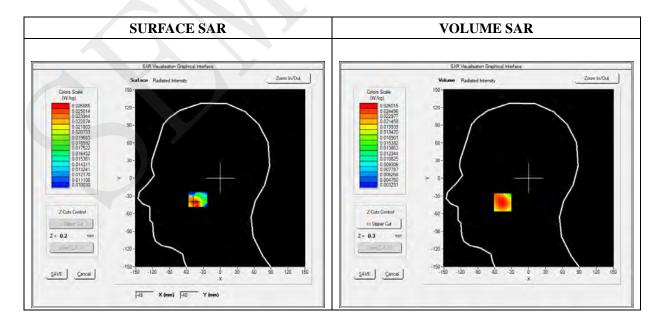
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Tilt		
Band	GSM1900		
Channels	High		
Signal	Duty Cycle 1:8.3		

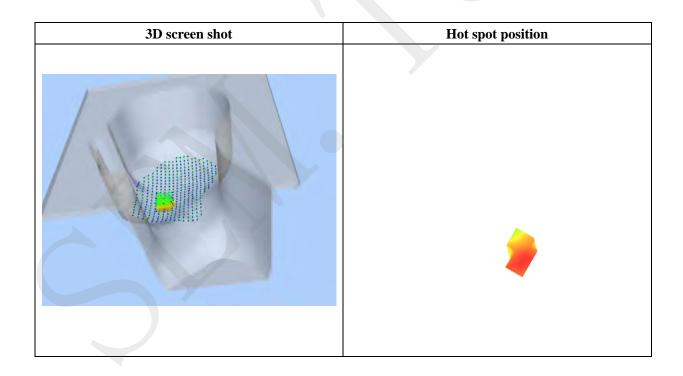
Frequency (MHz)	1909.800049		
Relative Permittivity (real part)	38.560124		
Conductivity (S/m)	1.380369		
Power Variation (%)	1.022540		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-46.00, Y=-41.00

SAR 10g (W/Kg)	0.016157	
SAR 1g (W/Kg)	0.024701	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0260	0.0166	0.0112	0.0084
	0.0260-				
	0.0225- 0.0200- 0.0175- 0.0150- 0.0125- 0.0100- 0.0066- 0.0 2	2.5 5.0 7.5 10.0	D 12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

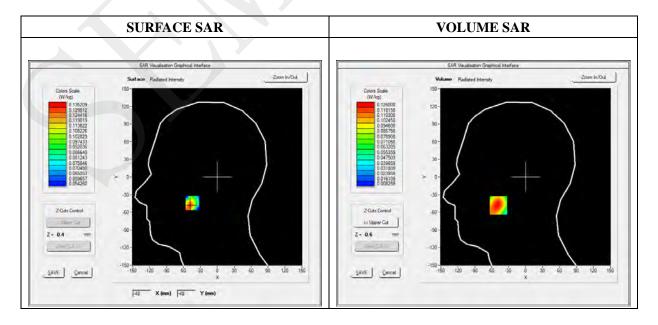
Measurement duration: 11 minutes 48 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Cheek		
Band	GSM1900		
Channels	High		
Signal	Duty Cycle 1:8.3		

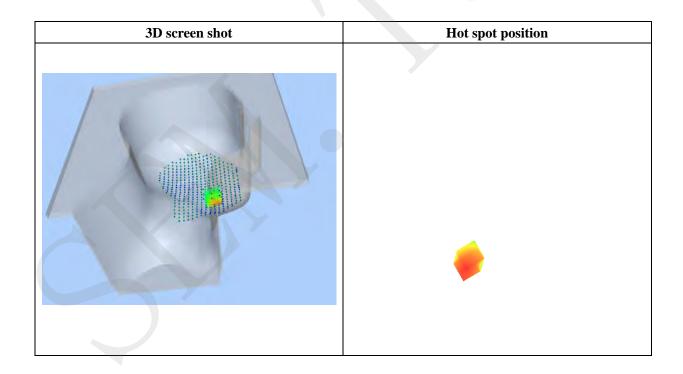
Frequency (MHz)	1909.800049		
Relative Permittivity (real part)	38.560124		
Conductivity (S/m)	1.380369		
Power Variation (%)	1.022540		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-48.00, Y=-48.00

SAR 10g (W/Kg)	0.079439	
SAR 1g (W/Kg)	0.119295	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1260	0.0961	0.0708	0.0498
	0.13- 0.10- 0.08- 0.06- 0.04- 0.03- 0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

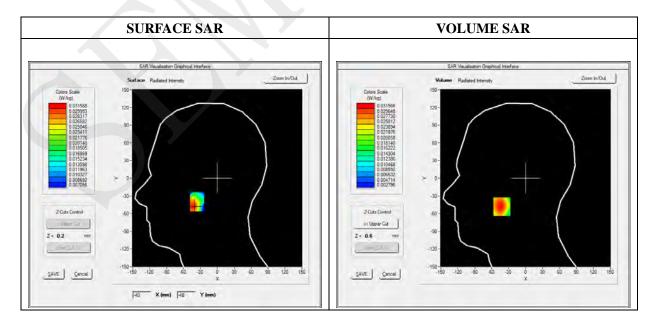
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Tilt		
Band	GSM1900		
Channels	High		
Signal	Duty Cycle 1:8.3		

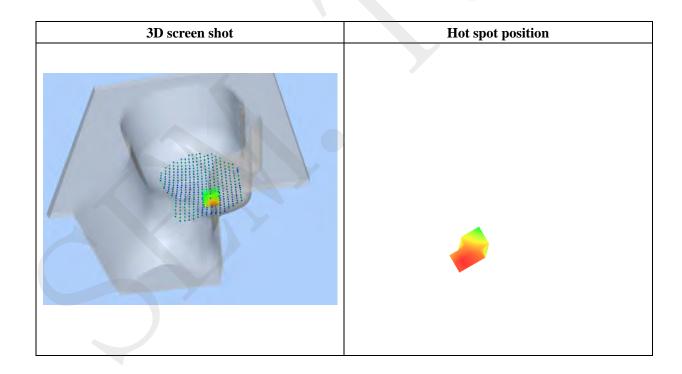
Frequency (MHz)	1909.800049		
Relative Permittivity (real part)	38.560124		
Conductivity (S/m)	1.380369		
Power Variation (%)	1.022540		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-42.00, Y=-48.00

SAR 10g (W/Kg)	0.020388	
SAR 1g (W/Kg)	0.030054	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0316	0.0235	0.0172	0.0125
	0.032-				
	0.025-				
	O.020				
	₹ 0.015-				
	0.000				
	0.009- 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

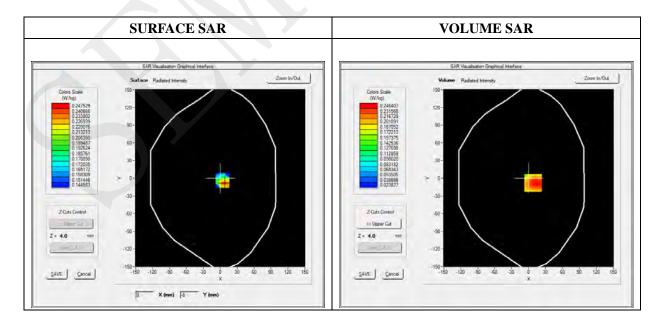
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Back(Body-worn)		
Band	GSM1900		
Channels	High		
Signal	Duty Cycle 1:8.3		

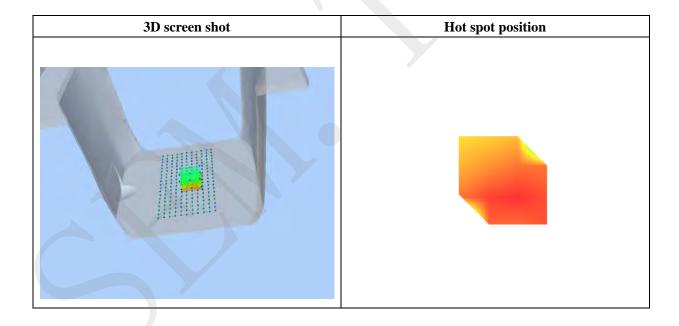
Frequency (MHz)	1909.800049		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=8.00, Y=-8.00

SAR 10g (W/Kg)	0.166088	
SAR 1g (W/Kg)	0.286601	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2422	0.1277	0.0720	0.0477
	0.242 - 0.225 - 0.200 - 0.175 - 0.150 - 0.125 - 0.100 - 0.075 - 0.035 - 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

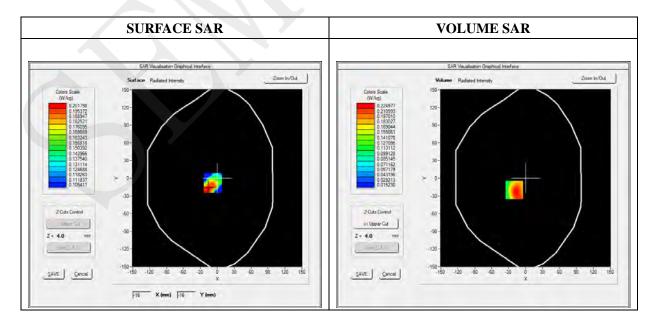
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Front(Body-worn)		
Band	GSM1900		
Channels	High		
Signal	Duty Cycle 1:8.3		

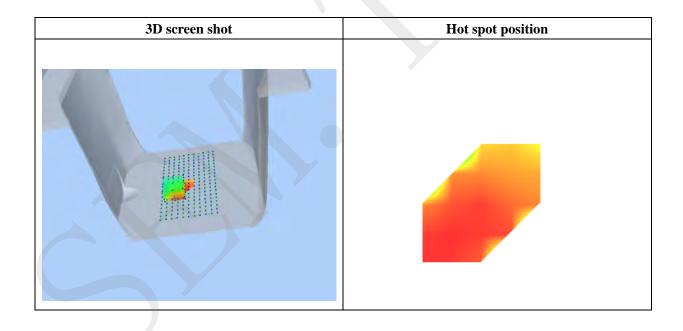
Frequency (MHz)	1909.800049		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-20.00, Y=-20.00

SAR 10g (W/Kg)	0.155003	
SAR 1g (W/Kg)	0.260334	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2206	0.1315	0.0785	0.0480
	0.221 - 0.200 - 0.175 - 0.150 - 0.125 - 0.075 - 0.050 - 0.028 - 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

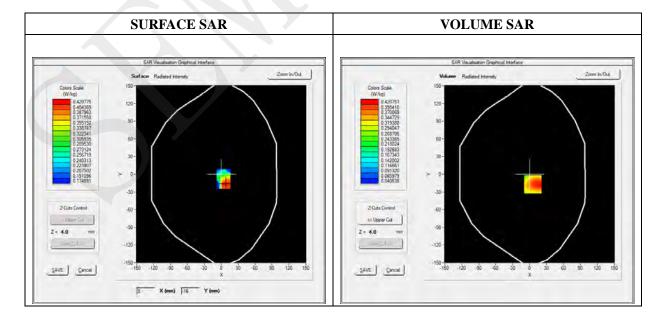
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Back		
Band	GPRS1900_4TX		
Channels	Middle		
Signal	Duty Cycle 1:2		

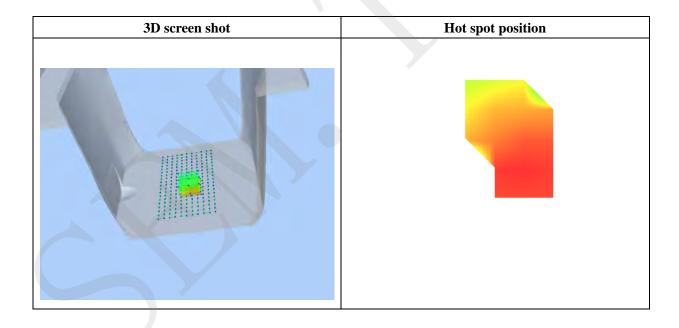
Frequency (MHz)	1880.000000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=6.00, Y=-17.00

SAR 10g (W/Kg)	0.246742	
SAR 1g (W/Kg)	0.398794	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3971	0.2646	0.1734	0.1112
	0.40 - 0.35 - 0.30 - 0.25 - 0.20 - 0.15 - 0.10 - 0.07 - 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

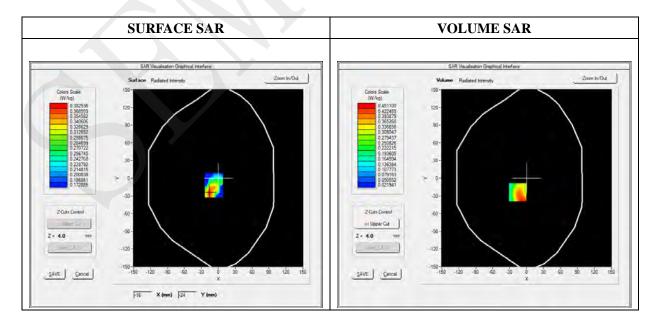
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Front		
Band	GPRS1900_4TX		
Channels	Middle		
Signal	Duty Cycle 1:2		

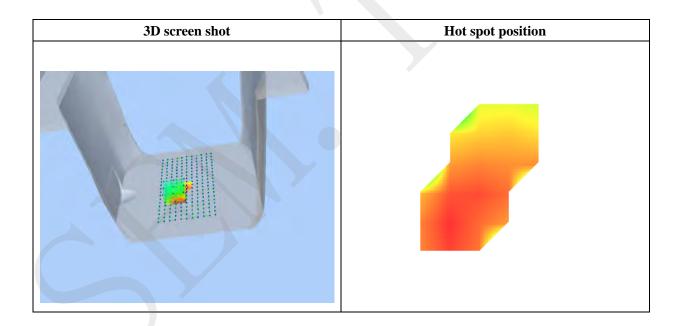
Frequency (MHz)	1880.000000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



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

SAR 10g (W/Kg)	0.226052	
SAR 1g (W/Kg)	0.392188	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3994	0.2166	0.1206	0.0734
	0.40- 0.35- 0.30- WW 0.25- 0.25- 0.15- 0.10- 0.05- 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

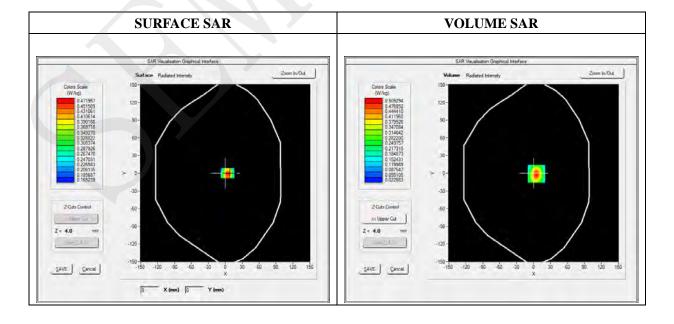
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Bottom		
Band	GPRS1900_4TX		
Channels	Middle		
Signal	Duty Cycle 1:2		

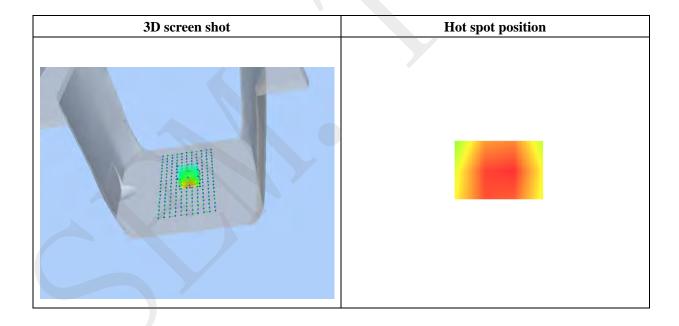
Frequency (MHz) 1880.000000		
Relative Permittivity (real part)	52.420415	
Conductivity (S/m)	1.501966	
Power Variation (%)	0.541872	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=5.00, Y=-1.00

SAR 10g (W/Kg)	0.245165	
SAR 1g (W/Kg)	0.457731	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5093	0.3032	0.1816	0.1120
SAR (W/Rg)	0.5- 0.4- 8 WW 0.3- 0.2- 0.1- 0.0 2.5		12.5 15.0 17.5		0.1120
	0.0 2.3		Z (mm)	20.0 22.3 23.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

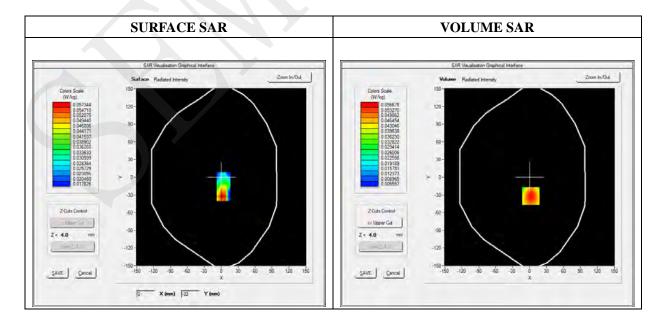
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Right side		
Band	GPRS1900_4TX		
Channels	Middle		
Signal	Duty Cycle 1:2		

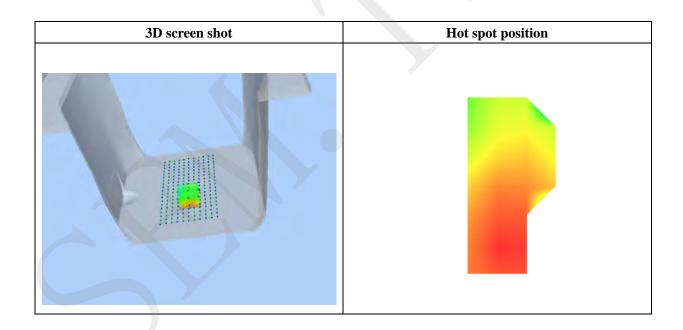
Frequency (MHz)	1880.000000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=2.00, Y=-32.00

SAR 10g (W/Kg)	0.032860	
SAR 1g (W/Kg)	0.053359	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0567	0.0350	0.0219	0.0142
	0.06- 0.05- 0.04- 0.03- 0.02- 0.01- 0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

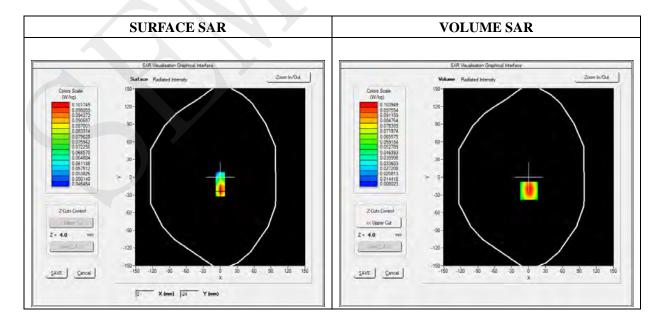
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Left side		
Band	GPRS1900_4TX		
Channels	Middle		
Signal	Duty Cycle 1:2		

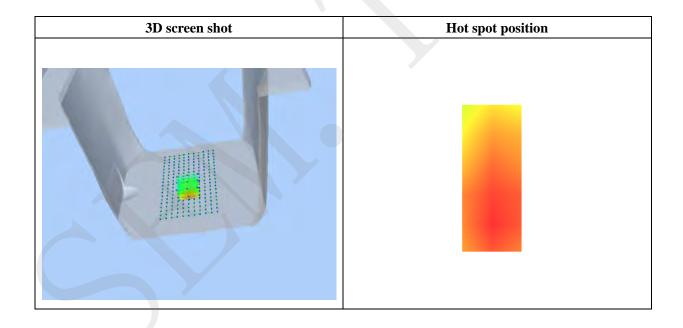
Frequency (MHz)	1880.000000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=1.00, Y=-23.00

SAR 10g (W/Kg)	0.057348	
SAR 1g (W/Kg)	0.097060	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1039	0.0646	0.0403	0.0257
	0.10 - 0.08 - 0.06 - 0.04 - 0.04 - 0.02 - 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

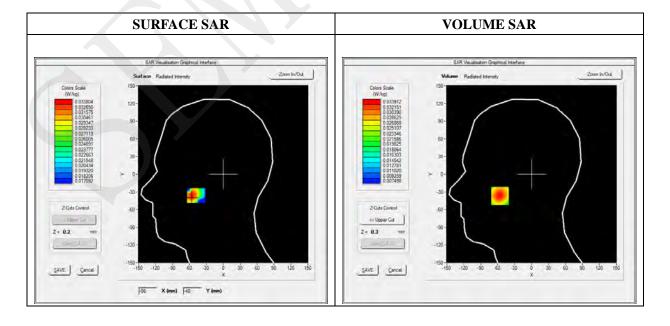
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Cheek		
Band	WCDMA850_RMC		
Channels	Middle		
Signal	Duty Cycle 1:1		

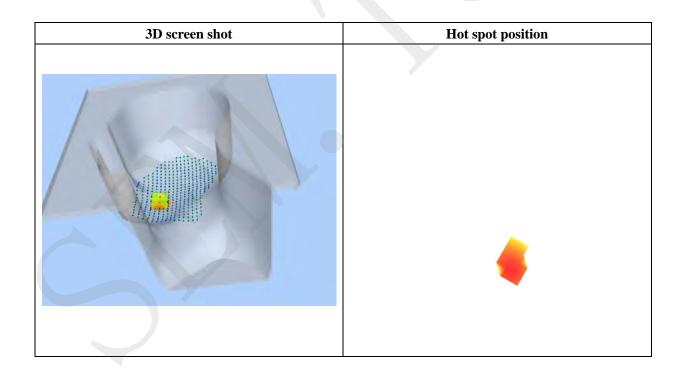
Frequency (MHz)	836.400000		
Relative Permittivity (real part)	41.110245		
Conductivity (S/m)	0.871245		
Power Variation (%)	1.814580		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-56.00, Y=-37.00

SAR 10g (W/Kg)	0.025270	
SAR 1g (W/Kg)	0.032551	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0339	0.0283	0.0239	0.0203
	0.034- 0.032- 0.030- 0.028- 0.026- 45 0.024- 0.022- 0.020- 0.017- 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

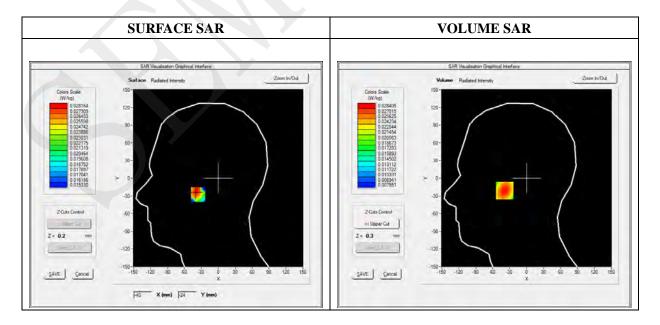
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Tilt		
Band	WCDMA850_ RMC		
Channels	Middle		
Signal	Duty Cycle 1:1		

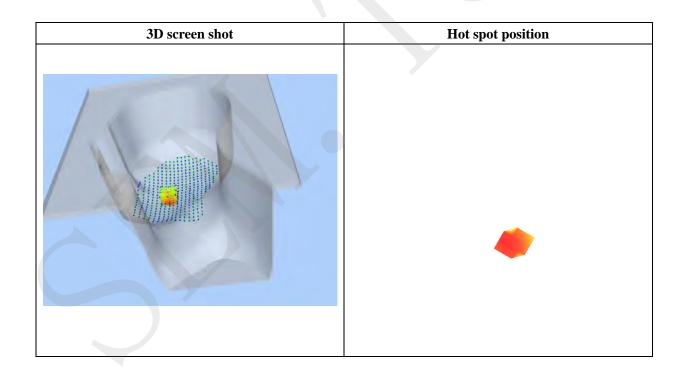
Frequency (MHz)	836.400000		
Relative Permittivity (real part)	41.110245		
Conductivity (S/m)	0.871245		
Power Variation (%)	1.814580		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-39.00, Y=-21.00

SAR 10g (W/Kg)	0.021435	
SAR 1g (W/Kg)	0.027294	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0284	0.0236	0.0200	0.0173
	0.028				
	0.026-	\longrightarrow			
	_ 0.024-	$\overline{}$			
	- 0.024- - 2 0.022	\longrightarrow	\longrightarrow		
	₩ 0.020-		\longrightarrow		
	0.018-		++		
	0.015 - 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

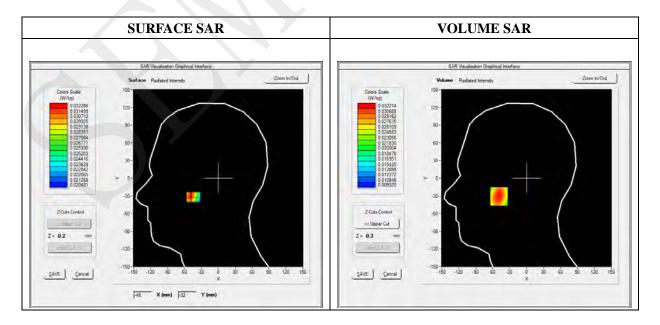
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Cheek		
Band	WCDMA850_RMC		
Channels	Middle		
Signal	Duty Cycle 1:1		

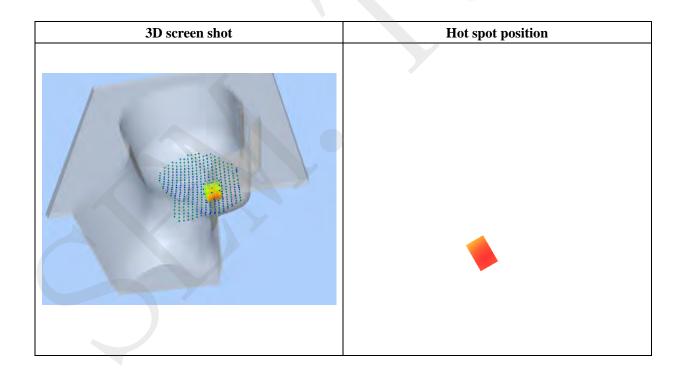
Frequency (MHz)	836.400000		
Relative Permittivity (real part)	41.110245		
Conductivity (S/m)	0.871245		
Power Variation (%)	1.814580		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-49.00, Y=-31.00

SAR 10g (W/Kg)	0.024486	
SAR 1g (W/Kg)	0.031004	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0322	0.0273	0.0232	0.0198
	0.032-				
	0.030-	\rightarrow			
	0.028	\rightarrow			
	0.026 - 0.024 - 0.022 -	\rightarrow	+		
	£ 0.024-		\rightarrow		
	S 0.022-	-	+		
	0.020		++		
	0.018 - 0.017 -				
	0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

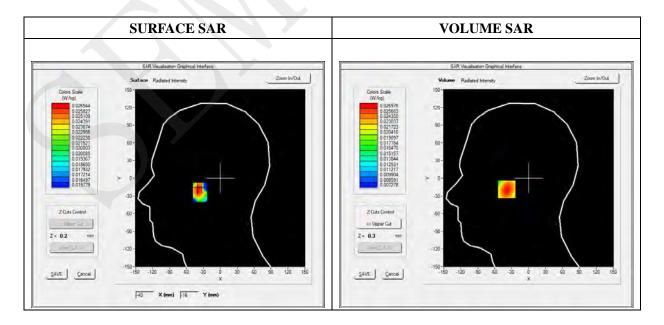
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Tilt		
Band	WCDMA850_RMC		
Channels	Middle		
Signal	Duty Cycle 1:1		

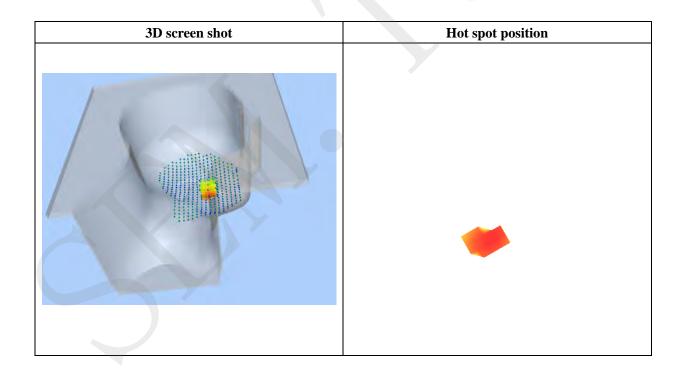
Frequency (MHz)	836.400000		
Relative Permittivity (real part)	41.110245		
Conductivity (S/m)	0.871245		
Power Variation (%)	1.814580		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-39.00, Y=-19.00

SAR 10g (W/Kg)	0.020395	
SAR 1g (W/Kg)	0.025951	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0270	0.0225	0.0190	0.0163
	0.027-				
	0.024- 0.022- 0.020- 0.018- 0.016- 0.014- 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

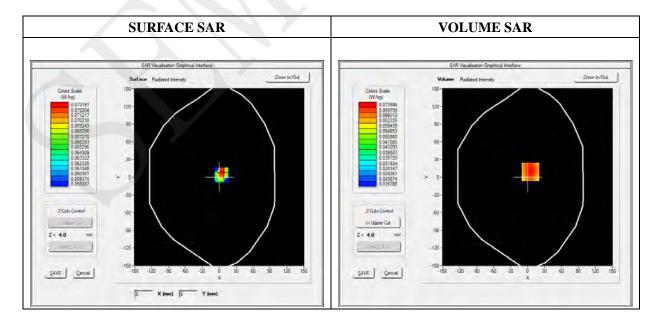
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Back		
Band	WCDMA850_RMC		
Channels	Middle		
Signal	Duty Cycle 1:1		

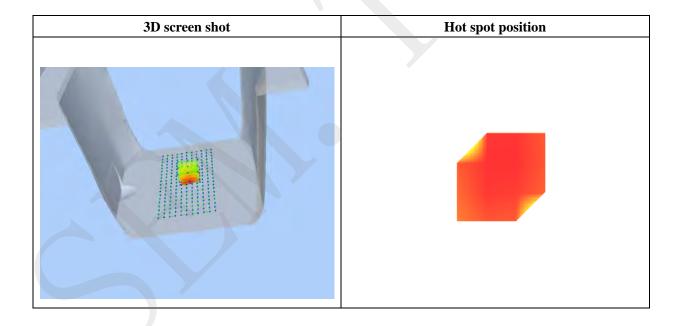
Frequency (MHz)	836.400000		
Relative Permittivity (real part)	54.851214		
Conductivity (S/m)	0.951454		
Power Variation (%)	0.901472		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=5.00, Y=9.00

SAR 10g (W/Kg)	0.054708	
SAR 1g (W/Kg)	0.071019	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0736	0.0592	0.0479	0.0389
	0.074- 0.070- 0.065- 0.060- W 0.055- 0.045- 0.045- 0.045- 0.035- 0.031- 0.0 2.	5 5.0 7.5 10.0	D 12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

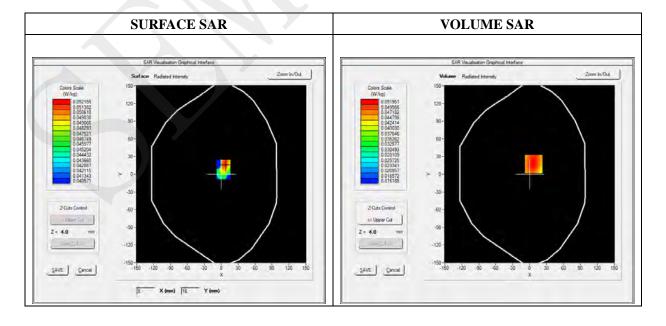
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Front		
Band	WCDMA850_RMC		
Channels	Middle		
Signal	Duty Cycle 1:1		

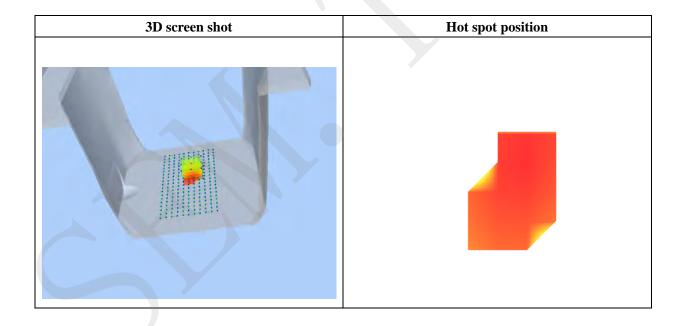
Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=17.00

SAR 10g (W/Kg)	0.039148	
SAR 1g (W/Kg)	0.050281	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0520	0.0424	0.0346	0.0284
	0.052-				
	0.045- 0.040- WY 0.035- 0.030- 0.023- 0.0 2	5 5.0 7.5 10.0	0 12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

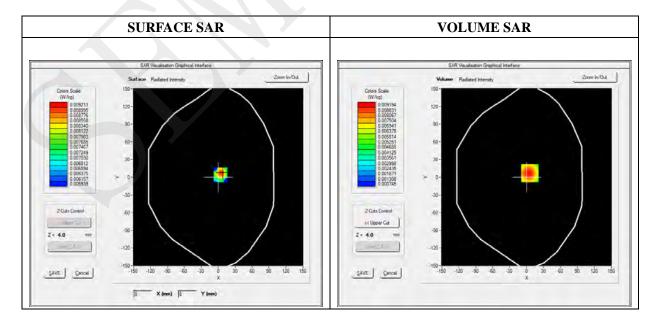
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Bottom		
Band	WCDMA850_RMC		
Channels	Middle		
Signal	Duty Cycle 1:1		

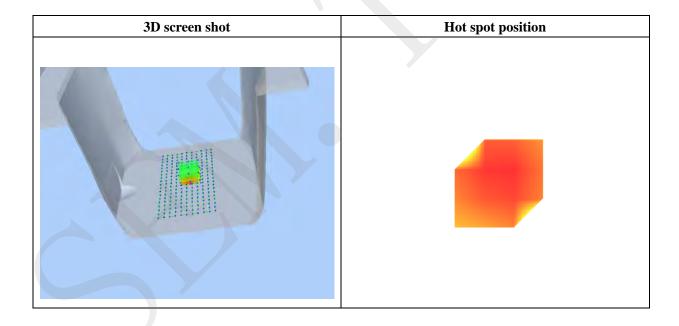
Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=6.00, Y=7.00

SAR 10g (W/Kg)	0.005488	
SAR 1g (W/Kg)	0.008688	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0092	0.0059	0.0037	0.0024
	0.009-				
	0.008-	\rightarrow			
	0.007-				
	W 0.005-	\rightarrow			
	€ 0.005-				
	S 0.004-		\rightarrow		
	0.003-		+		
			\perp		
	0.002- 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
	0.0 2.	0.0 7.0 10.0	Z (mm)	20.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

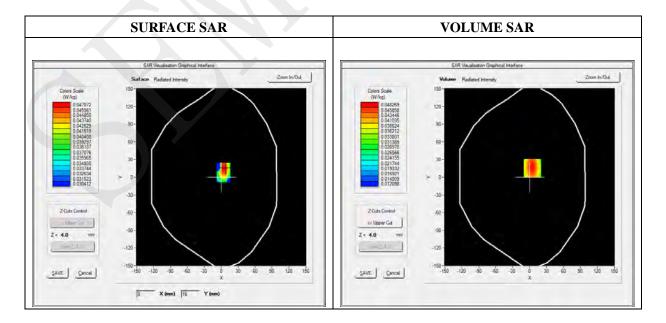
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Right side		
Band	WCDMA850_RMC		
Channels	Middle		
Signal	Duty Cycle 1:1		

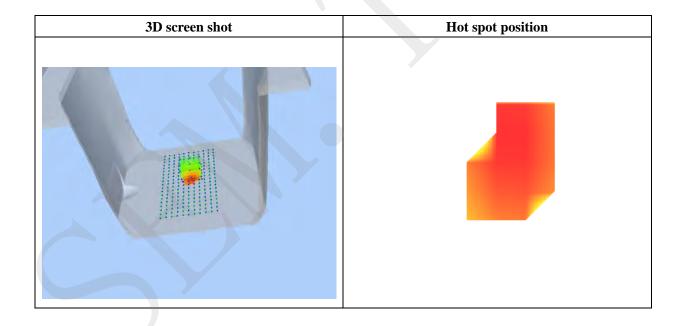
Frequency (MHz)	836.400000		
Relative Permittivity (real part)	54.851214		
Conductivity (S/m)	0.951454		
Power Variation (%)	0.901472		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=5.00, Y=16.00

SAR 10g (W/Kg)	0.032405	
SAR 1g (W/Kg)	0.045914	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0483	0.0355	0.0264	0.0201
	0.048 - 0.045 - 0.040 - 0.035 - 0.030 - 0.025 - 0.020 - 0.015 - 0.0 2.	5 5.0 7.5 10.0) 12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

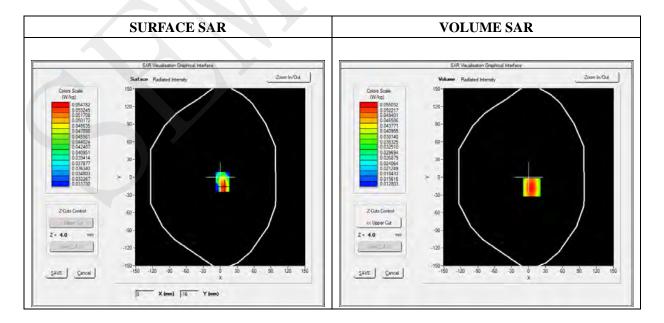
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Left side		
Band	WCDMA850_RMC		
Channels	Middle		
Signal	Duty Cycle 1:1		

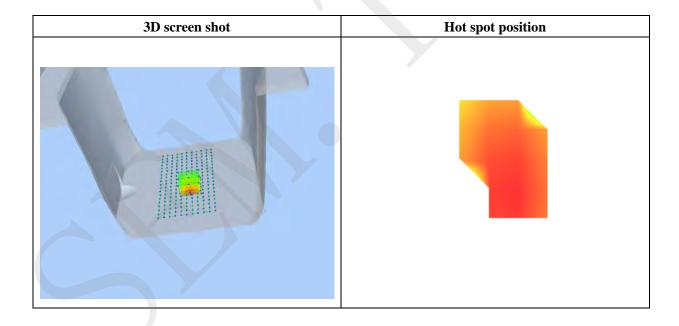
Frequency (MHz)	836.400000		
Relative Permittivity (real part)	54.851214		
Conductivity (S/m)	0.951454		
Power Variation (%)	0.901472		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=6.00, Y=-17.00

SAR 10g (W/Kg)	0.036744	
SAR 1g (W/Kg)	0.052263	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0550	0.0407	0.0304	0.0231
	0.055-				
	0.050-				
	0.045-	\rightarrow			
	₹ 0.040-	\rightarrow			
	0.035- 0.035- 0.035-		\longrightarrow		
	∞ 0.030-		\rightarrow		
	0.025				
	0.017-	5 5.0 7.5 10.0) 12.5 15.0 17.5	20.0 22.5 25.0	
	0.0 2.	3 3.0 7.3 10.0	Z (mm)	20.0 22.3 23.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

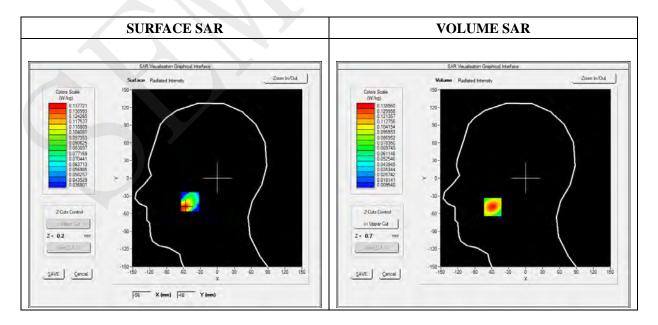
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Cheek		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle 1:1		

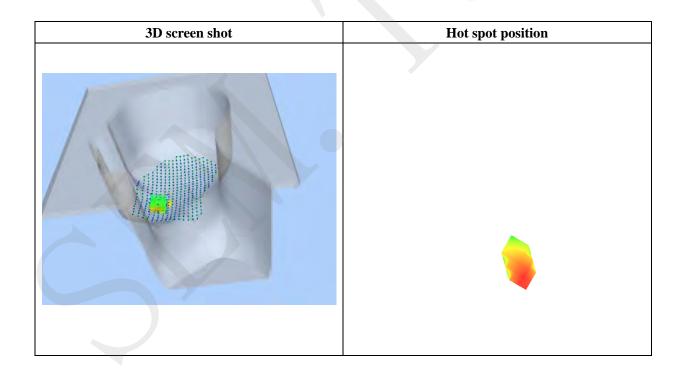
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	38.560124		
Conductivity (S/m)	1.380369		
Power Variation (%)	1.022540		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-58.00, Y=-49.00

SAR 10g (W/Kg)	0.079958	
SAR 1g (W/Kg)	0.128891	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1386	0.0922	0.0627	0.0442
	0.14- 0.12- 0.10- 0.08- 0.06- 0.04- 0.03- 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

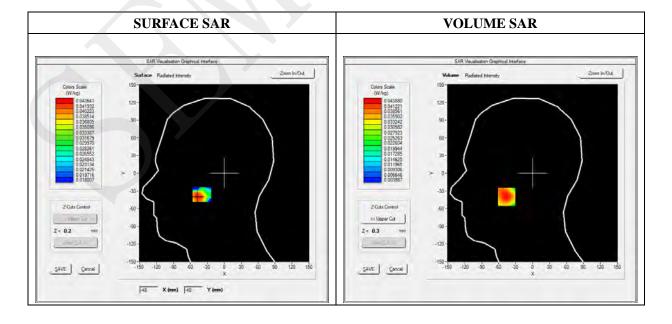
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Tilt		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle 1:1		

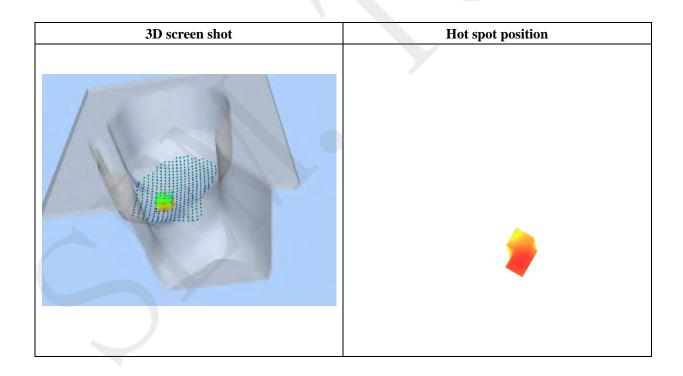
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	38.560124		
Conductivity (S/m)	1.380369		
Power Variation (%)	1.022540		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-46.00, Y=-40.00

SAR 10g (W/Kg)	0.027504	
SAR 1g (W/Kg)	0.041628	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0439	0.0302	0.0212	0.0152
	0.044 - 0.040 - 0.035 - 0.030 - 0.020 - 0.015 - 0.011 - 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

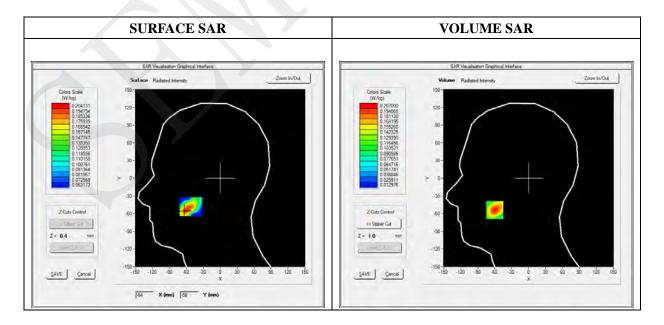
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Cheek		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle 1:1		

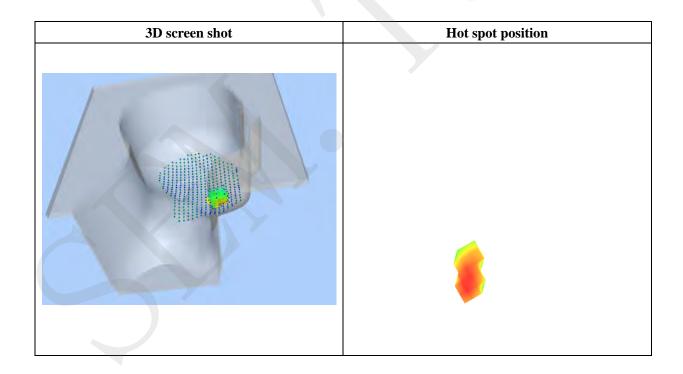
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	38.560124		
Conductivity (S/m)	1.380369		
Power Variation (%)	1.022540		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-60.00, Y=-54.00

SAR 10g (W/Kg)	0.114166
SAR 1g (W/Kg)	0.191480

0.2	21-	2070	0.1350	0.0883	0.0585
0.1					
0.0 WK 0.0 0.0 0.0	16 - 14 - 12 - 10 - 08 -	7.5 10.0 12.5 Z (mm	15.0 17.5 20.0) 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

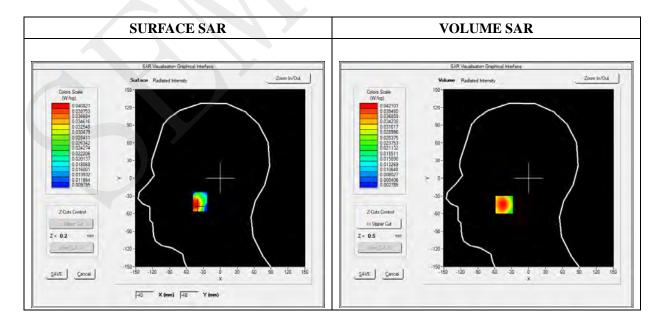
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Tilt		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle 1:1		

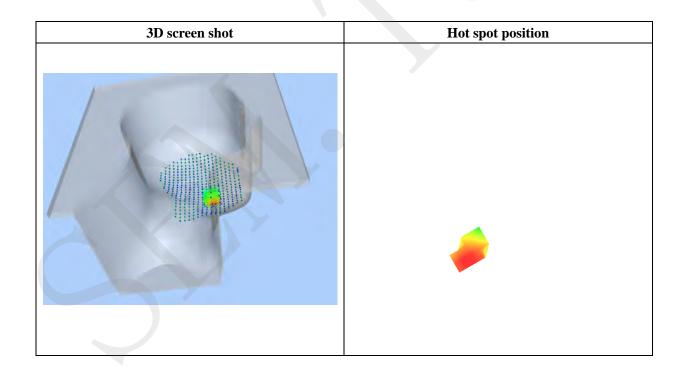
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	38.560124		
Conductivity (S/m)	1.380369		
Power Variation (%)	1.022540		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-43.00, Y=-45.00

SAR 10g (W/Kg)	0.025942	
SAR 1g (W/Kg)	0.039983	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0421	0.0295	0.0208	0.0148
	0.042-				
	0.035	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	X



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

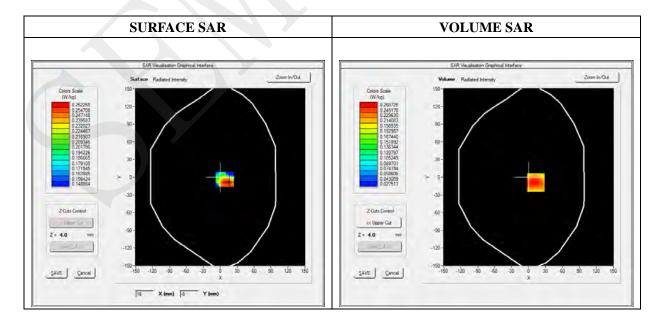
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Back		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle 1:1		

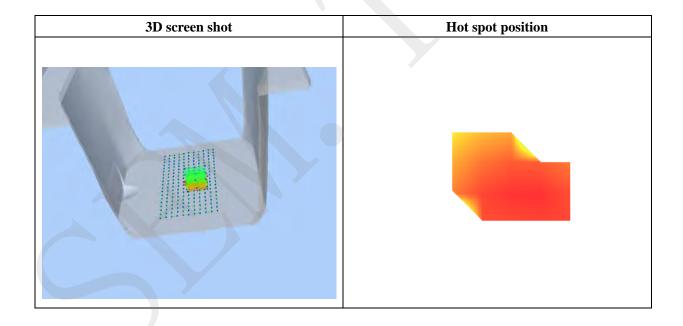
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=13.00, Y=-9.00

SAR 10g (W/Kg)	0.156354	
SAR 1g (W/Kg)	0.247439	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2607	0.1670	0.1070	0.0692
	0.26-				
	0.20-				
	O.15-				
	₹ 0.15-	\rightarrow			
	SAB		\setminus		
	0.10-		+		
	0.04				
	0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		
					_



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

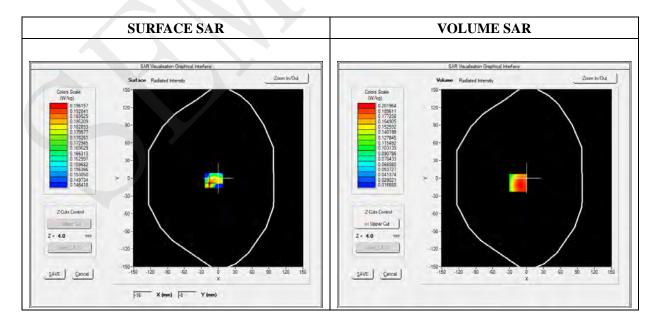
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Front		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle 1:1		

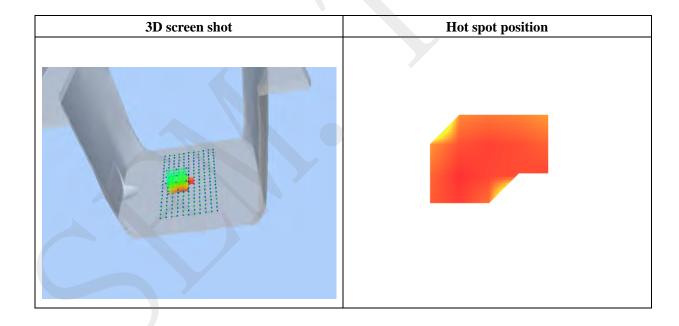
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-15.00, Y=-8.00

SAR 10g (W/Kg)	0.117450	
SAR 1g (W/Kg)	0.192542	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1961	0.1171	0.0703	0.0434
	0.20 - 0.18 - 0.16 - 0.14 - 0.12 - 0.10 - 0.08 - 0.06 - 0.04 - 0.03 - 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

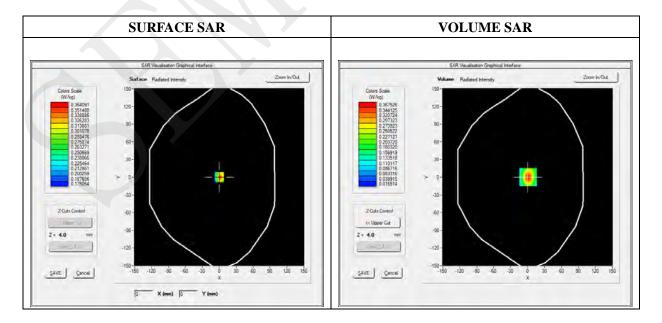
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Bottom		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle 1:1		

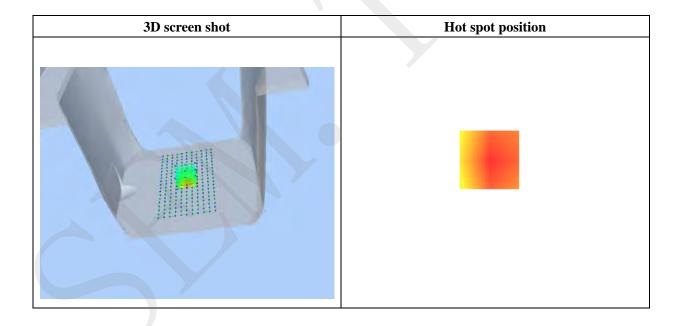
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	0.179345	
SAR 1g (W/Kg)	0.331831	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3675	0.2221	0.1348	0.0838
	0.37 - 0.30 - 9 0.25 - 9 0.20 - 9 0.15 - 0.10 - 0.05 -				
	0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

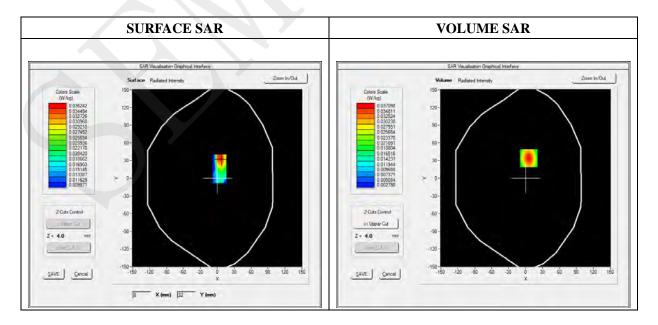
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Right side		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle 1:1		

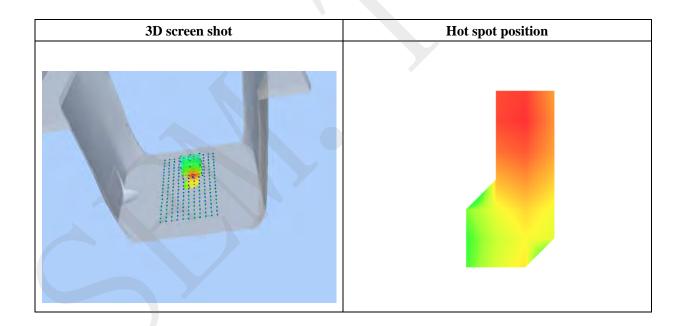
Frequency (MHz)	1852.400000	
Relative Permittivity (real part)	52.420415	
Conductivity (S/m)	1.501966	
Power Variation (%)	0.541872	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=6.00, Y=34.00

SAR 10g (W/Kg)	0.020322	
SAR 1g (W/Kg)	0.034391	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0371	0.0230	0.0143	0.0091
	0.037-				
	0.030- 0.025- 0.020- 0.015- 0.010- 0.006- 0.0 2	5 5.0 7.5 10.0	0 12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 03/25/2015

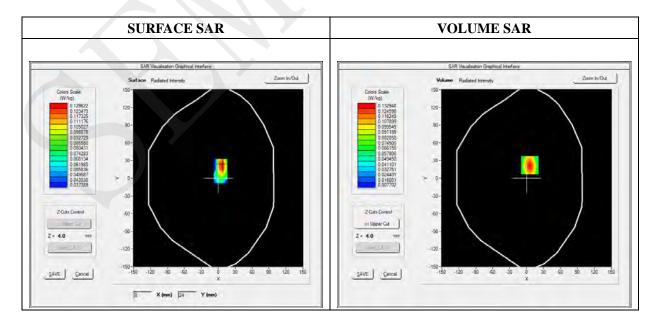
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/16/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Left side		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle 1:1		

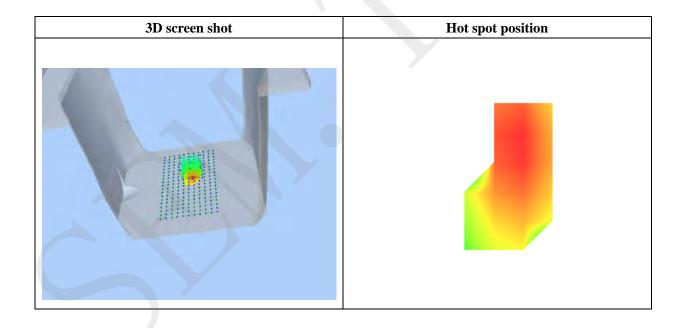
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=6.00, Y=22.00

SAR 10g (W/Kg)	0.069680
SAR 1g (W/Kg)	0.122215

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1329	0.0802	0.0486	0.0301
	0.13- 0.12- 0.10- 0.08- WW 0.06- 0.04- 0.02- 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Annex C. EUT Photos

EUT View Front



EUT View Back



Antenna View



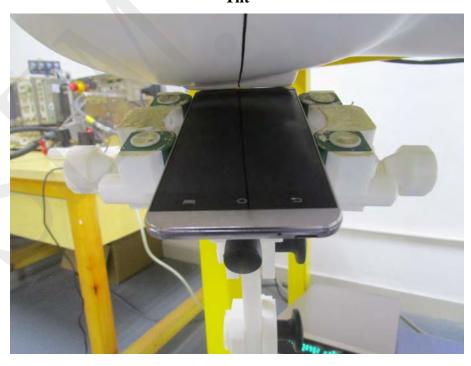
Annex D. Test Setup Photos

Test View 1 (Right Head)





Tilt



Test View 2 (Left Head)





Tilt



Test View 3





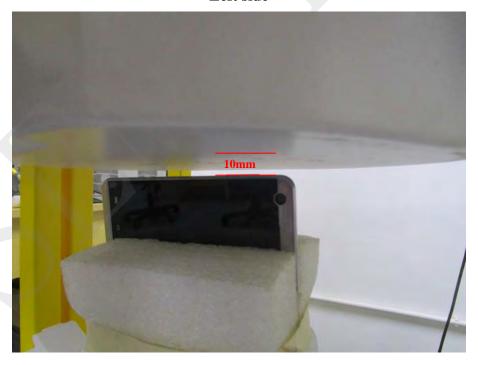
Back Side



Right side



Left side



Body Bottom



Body-worn



Annex E. Calibration Certificate

Please refer to the exhibit for the calibration certificate

***** END OF REPORT *****