FCC SAR Measurement and Test Report

For

FlexKom Technology Asia Limited.

Unit B, 11 Floor, Silvercorp International Tower, 707-713 Nathan Road, KowLoon, HongKong

FCC ID: 2ABTW-FK-POS5M

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: Flexkom Pos

Tested Model: POS-5M

Report No.: <u>STR14078072H</u>

Tested Date: <u>2014-07-14 to 2014-07-16</u>

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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: FlexKom Technology Asia Limited.

Address of applicant: Unit B, 11 Floor, Silvercorp International Tower,

707-713 Nathan Road, KowLoon, HongKong

Manufacturer: FlexKom Technology Asia Limited.

Address of manufacturer: Unit B, 11 Floor, Silvercorp International Tower,

707-713 Nathan Road, KowLoon, HongKong

General Description of EUT	
Product Name:	Flexkom Pos
Brand Name:	FlexGold
Model No.:	POS-5M
Adding Mode:	POS-6M
Software Version:	MT83X2_MR601_MR6012H1C2W1.2014032000
Hardware Version:	ELINK_MR601_V3
IMEI:	865782126109690/862113951416229
Rated Voltage:	DC 3.7V Battery
Battery Capacity:	2600mAh/9.62Wh
Device Category:	Portable Device

The EUT is GSM850/900/DCS1800/PCS1900, WCDMA Band I/ Band I/ Band V Flexkom Pos. the Flexkom Pos is intended for speech and Multimedia Message Service (MMS) transmission. It is equipped with GPRS/EDGE class 12 for GSM850 and GSM1900 and Bluetooth, Wi-Fi, and camera functions. For more information see the following datasheet

The test data is gathered from a production sample, provided by the manufacturer. The other model listed in the report has different appearance only of POS-5M without circuit and electronic construction changed, declared by the manufacturer.

Technical Characteristics of EUT					
2G					
Support Networks:	GSM, GPRS, EDGE				
Support Band:	GSM850/PCS1900				
Unlink Eroguanav	GSM/GPRS/EDGE 850: 824~849MHz				
Uplink Frequency:	GSM/GPRS/EDGE 1900: 1850~1910MHz				
Downlink Fraguency:	GSM/GPRS/EDGE 850: 869~894MHz				
Downlink Frequency:	GSM/GPRS/EDGE 1900: 1930~1990MHz				

RF Output Power:	GSM850: 32.02dBm, GSM1900: 28.94dBm				
Type of Modulation:	GMSK, 8PSK				
Antenna Type:	Internal Antenna				
Antenna Gain:	GSM850: -5.11dBi, GSM1900: -3.55dBi				
GPRS/EDGE Class:	Class 12				
3G					
Support Networks:	WCDMA				
Support Band:	WCDMA Band II, WCDMA Band V				
Liplink Fraguency	WCDMA Band II: 1850~1980MHz				
Uplink Frequency:	WCDMA Band V: 824~849MHz				
Downlink Fraguancy:	WCDMA Band II: 1930~1990MHz				
Downlink Frequency:	WCDMA Band V: 869~894MHz				
RF Output Power:	WCDMA850: 22.31dBm, WCDMA1900: 22.15dBm				
Type of Modulation:	BPSK				
Antenna Type:	Integral Antenna				
Antenna Gain:	WCDMA850: -4.55dBi, WCDMA1900: -4.36dBi				
WIFI					
Support Standards:	802.11b, 802.11g, 802.11n				
Fraguency Pange:	2412-2472MHz for 11b/g/n(HT20)				
Frequency Range:	2422-2462MHz for 11n(HT40)				
RF Output Power:	15.02dBm (Conducted)				
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM				
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps				
Quantity of Channels:	13 for 11b/g/n(HT20), 9 for 11n(HT40)				
Channel Separation:	5MHz				
Type of Antenna:	Internal Antenna				
Antenna Gain:	4.52dBi				
Bluetooth					
Bluetooth Version:	V4.0				
Frequency Range:	2402-2480MHz				
RF Output Power:	3.52dBm (Conducted)				
Data Rate:	1Mbps, 2Mbps, 3Mbps				
Modulation:	GFSK, Pi/4 QDPSK, 8DPSK				
Quantity of Channels:	79/40				
Channel Separation:	1MHz/2MHz				
Type of Antenna:	Internal Antenna				
Antenna Gain:	4.52dBi				
1	· · · · · · · · · · · · · · · · · · ·				

1.2 Test Standards

The following report is prepared on behalf of the Lanco Global Systems (Caribbean), Inc 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	0.0688	0.0768
GSM1900	Head	0.0957	0.0970
WCDMA Band V	Head	0.0360	0.0376
WCDMA Band II	Head	0.0534	0.0579
WLAN 2.4GHz	Head	0.3583	0.4002
GSM850	Body-worn (10mm Gap)	0.1427	0.1594
GSM1900	Body-worn (10mm Gap)	0.5747	0.5827
WCDMA Band V	Body-worn (10mm Gap)	0.1968	0.2056
WCDMA Band II	Body-worn (10mm Gap)	0.2576	0.2792
WLAN 2.4GHz	Body-worn (10mm Gap)	0.1122	0.1253
GSM850	Hotspot (10mm Gap)	0.1722	0.1828
GSM1900	Hotspot (10mm Gap)	1.0745	1.0894
WCDMA Band V	Hotspot (10mm Gap)	0.1126	0.1176
WCDMA Band II	Hotspot (10mm Gap)	0.3313	0.3591
WLAN 2.4GHz	Hotspot (10mm Gap)	0.1127	0.1259
GSM850 & WLAN 2.4GHz	Head		0.4770
GSM1900 & WLAN 2.4GHz	Head		0.4972
WCDMA Band V & WLAN 2.4GHz	Head		0.4378
WCDMA Band II & WLAN 2.4GHz	Head		0.4493
GSM850 & WLAN 2.4GHz	Body-worn (10mm Gap)		0.2847
GSM1900 & WLAN 2.4GHz	Body-worn (10mm Gap)		0.7080
WCDMA Band V & WLAN 2.4GHz	Body-worn (10mm Gap)		0.3309
WCDMA Band II & WLAN 2.4GHz	Body-worn (10mm Gap)		0.4045
GSM850 & WLAN 2.4GHz	Hotspot (10mm Gap)		0.3087
GSM1900 & WLAN 2.4GHz	Hotspot (10mm Gap)		1.2153
WCDMA Band V & WLAN 2.4GHz	Hotspot (10mm Gap)		0.2435
WCDMA Band II & WLAN 2.4GHz	Hotspot (10mm Gap)		0.4850

The highest reported SAR values for head, body-worn accessory, product specific (wireless router), and simultaneous transmission conditions are 0.40W/kg, 0.58W/kg, 1.09W/kg, and 1.22W/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

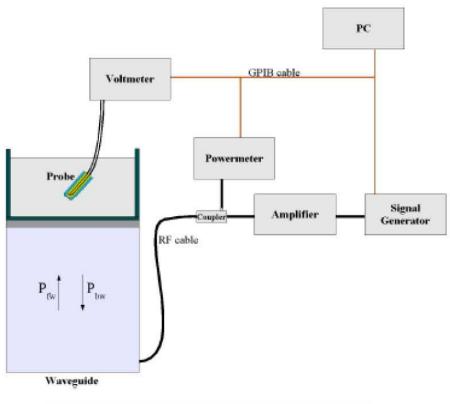
- Distance between dipoles / probe extremity: 2.7mm

- 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.



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

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.

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

Where:

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

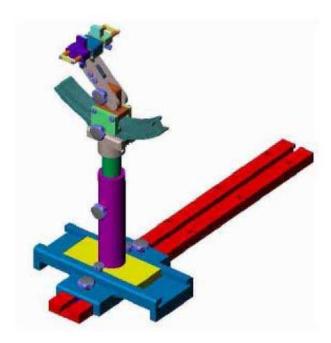
 ρ = Tissue density (1.25 g/cm3 for brain tissue)

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	2014-03-21	2015-03-20
835MHz Dipole	SATIMO	SID835	SN 47/12 DIP 0G835-204	2014-11-26	2015-11-25
1900MHz Dipole	SATIMO	SID1900	SN 47/12 DIP 1G900-207	2014-11-26	2015-11-25
2450MHz Dipole	SATIMO	SID2450	SN 47/12 DIP 2G450-209	2014-11-26	2015-11-25
Dielectric Probe	SATIMO	SCLMP	SN 47/12 OCPG49	2014-11-26	2015-11-25
SAM Phantom	SATIMO	SAM	SN/ 47/12 SAM95	N/A	N/A
Multi Meter	Keithley	Keithley 2000	4006367	2014-05-28	2015-05-27
Signal Generator	Rohde & Schwarz	SMR20	100047	2014-05-28	2015-05-27
Universal Tester	Rohde & Schwarz	CMU200	112012	2014-05-28	2015-05-27
Network Analyzer	HP	8753C	2901A00831	2014-05-28	2015-05-27

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
2450	55.44	0.32	30.50	0.00	0.00	13.74
			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
2450	55.44	0.32	30.50	0.00	0.00	13.74

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.

Т Е	Н	ead	Во	ody
Target Frequency (MHz)	Conductivity	Permittivity	Conductivity	Permittivity
(MITZ)	(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								
Emag	Tomp	(Conductivity Permittivity					Limit	
Freq. MHz.	Temp.	Reading	Target	Delta	Reading	Target	Delta	(%)	Date
WIIIZ.	(0)	(σ)	(σ)	(%)	$(\mathcal{E}\mathbf{r})$	$(\mathcal{E}\mathbf{r})$	(%)	(70)	
835	21.2	0.91	0.90	1.11	40.02	41.5	-3.57	±5	2014-07-14
1900	21.3	1.41	1.40	0.71	38.91	40.0	-2.73	±5	2014-07-14
2450	21.3	1.78	1.80	-1.11	38.76	39.2	-1.12	±5	2014-07-14

	Body Tissue Simulating Liquid										
Freq.	Temp.	Conductivity		Conductivity Permittivity		Conductivity Permittivity					
MHz.	(°C)	Reading	Target	Delta	Reading	Target	Delta	Limit (%)	Date		
WIIIZ.	(0)	(σ)	(σ)	(%)	$(\mathcal{E}\mathbf{r})$	$(\mathcal{E}_{\mathbf{r}})$	(%)	(/0)			
835	21.2	0.96	0.97	-1.03	54.49	55.2	-1.29	±5	2014-07-14		
1900	21.3	1.49	1.52	-1.97	52.39	53.3	-1.71	±5	2014-07-14		
2450	21.3	1.92	1.95	-1.54	52.43	52.7	-0.51	±5	2014-07-14		

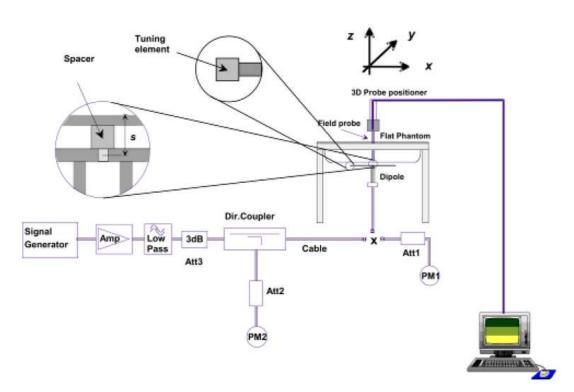
6. SAR Measurement Evaluation

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 24 dBm (250 mW) 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}	Measured SAR _{1g}	Normalized SAR _{1g}	Tolerance
MHz	(W/kg)	(W/kg)	(W/kg)	(%)
		Head		
835	9.82	2.46	9.83	-2.24
1900	40.79	10.20	40.80	-2.92
2450	52.50	13.10	52.40	-0.93
		Body		
835	10.19	2.52	10.09	-0.98
1900	40.41	10.09	40.34	-0.17
2450	51.80	12.86	51.42	-0.73

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.

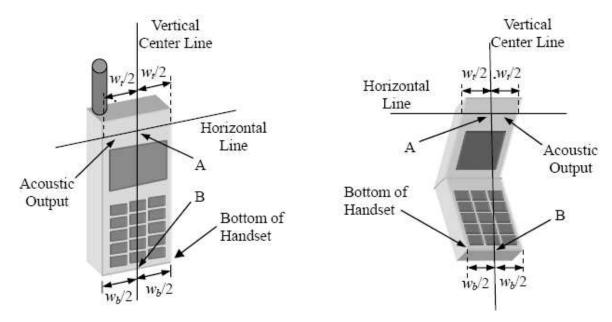
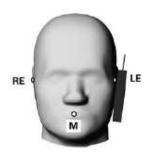


Illustration for Handset Vertical and Horizontal Reference Lines

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).





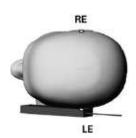


Illustration for Cheek Position

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).





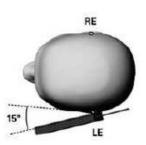


Illustration for Tilted Position

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.

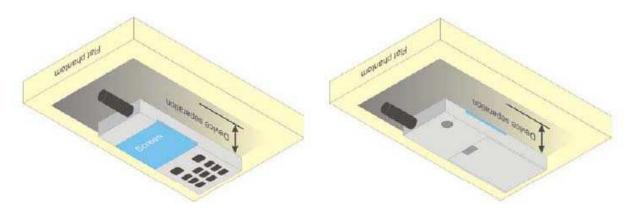


Illustration for Body Position

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	Yes	Yes	Yes	Yes			

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

Body-worn SAR tests, Test distance: 10mm						
Antennas Front Back						
WWAN	Yes	Yes				
WLAN	Yes	Yes				

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	128 190 251			661	810				
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880	1909.8				
GSM	32.02	31.98	31.78	28.94	28.75	28.56				
GPRS (1 slot)	31.86	31.70	31.64	28.55	28.63	28.84				
GPRS (2 slots)	30.52	30.32	30.12	27.22	27.32	27.41				
GPRS (3 slots)	28.94	28.78	28.67	25.94	26.02	26.15				
GPRS (4 slots)	27.74	27.62	27.35	24.75	24.78	24.94				
EDGE (1 slots)	26.36	26.35	26.15	25.68	25.37	25.46				
EDGE (2 slots)	25.15	25.11	25.04	24.12	24.22	24.31				
EDGE (3 slots)	24.02	23.83	23.75	23.01	23.02	23.11				
EDGE (4 slots)	22.56	22.42	22.38	21.68	21.76	21.84				

GSM	I - Source-Ba	sed Time-A	verage Powe	r (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	23.02	22.98	22.78	19.94	19.75	19.56	
GPRS (1 slot)	22.86	22.70	22.64	19.55	19.63	19.84	
GPRS (2 slots)	24.52	24.32	24.12	21.22	21.32	21.41	
GPRS (3 slots)	24.69	24.53	24.42	21.69	21.77	21.90	
GPRS (4 slots)	24.74	24.62	24.35	21.75	21.78	21.94	
EDGE (1 slots)	17.36	17.35	17.15	16.68	16.37	16.46	
EDGE (2 slots)	19.15	19.11	19.04	18.12	18.22	18.31	
EDGE (3 slots)	19.77	19.58	19.50	18.76	18.77	18.86	
EDGE (4 slots)	19.56	19.42	19.38	18.68	18.76	18.84	

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

Duty cycle factor = 9 dB for 1 Tx slot, 6 dB for 2 Tx slots, 4.25 dB for 3 Tx slots, 3 dB for 4 Tx slots

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 (4 Tx 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 P	ower (dBm)				
Band	W	CDMA Band	l V	WCDMA Band II			
Channel	4132 4183 4233			9262	9400	9538	
Frequency (MHz)	826.4	836.6	846.6	1852.4	1880.0	1907.6	
RMC 12.2k	22.04	<mark>22.31</mark>	22.15	22.15	21.78	21.92	
HSDPA Subtest-1	21.69	21.96	22.01	21.58	21.24	21.43	
HSDPA Subtest-2	21.24	21.35	21.84	21.51	21.24	21.16	
HSDPA Subtest-3	21.04	21.24	21.58	21.45	21.28	21.40	
HSDPA Subtest-4	21.24	21.24	21.58	21.74	21.22	21.24	
HSUPA Subtest-1	21.78	22.08	22.05	21.95	21.04	21.85	
HSUPA Subtest-2	21.11	21.21	21.55	21.10	21.04	21.24	
HSUPA Subtest-3	21.34	21.32	22.00	20.36	21.12	21.34	
HSUPA Subtest-4	21.14	21.24	21.94	21.42	20.94	21.25	
HSUPA Subtest-5	21.23	21.14	22.00	21.34	21.22	21.11	

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 and HSUPA subset-1 output power is < 1/4 dB higher than RMC, and SAR with RMC 12.2kbps setting is \leq 1.2W/kg, HSDPA and HSUPA SAR evaluation can be excluded.

	WLAN - Maximum Average Power								
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)					
		CH 01	2412	12.49					
802.11b	1Mbps	CH 07	2442	12.30					
		CH 13	2472	12.21					
		CH 01	2412	11.11					
802.11g	54Mbps	CH 07	2442	11.01					
		CH 13	2472	11.21					
		CH 01	2412	11.04					
802.11n (20MHz)	MCS7	CH 07	2442	11.15					
		CH 13	2472	11.04					
	CH 03		2422	10.92					
802.11n (40MHz)	MCS7	CH 07	2442	10.89					
		CH 11	2462	10.87					

Remark:

- 1. Per KDB 248227 D01 v01r02, choose the highest output power channel to test SAR and determine further SAR exclusion
- 2. Per KDB 248227 D01 v01r02, if 11g and 11n average output power is higher than 1/4 dB higher than 11b mode, SAR will be verified.
- 3. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4 dB higher than those measured at the lowest data rate. For 802.11n mode, SAR test according to the highest power channel with correspondence data rates.

	Bluetooth - Maximum Average Power								
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)					
		CH 00	2402	3.52					
GFSK	1Mbps	CH 39	2441	3.12					
		CH 78	2480	3.05					
	3Mbps	CH 00	2402	1.36					
8DPSK		CH 39	2441	1.05					
		CH 78	2480	1.24					
		CH 00	2402	-2.36					
BLE	1Mbps	CH 19	2442	-1.25					
		CH 39	2480	-1.34					

Remark:

Bluetooth maximum output power (including tune-up tolerance) is 6.0 dBm. 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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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

Max. Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
3.52	2.25	5	2.402	0.70	3

The exclusion thresholds is 0.70 < 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.	NO.	Heau	CII. WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)			
1	GSM	Right Cheek	128	824.2	32.02	32.5	1.12	<mark>0.0688</mark>	0.0768		
2	GSM	Right Tilted	128	824.2	32.02	32.5	1.12	0.0311	0.0347		
3	GSM	Left Cheek	128	824.2	32.02	32.5	1.12	0.0485	0.0542		
4	GSM	Left Tilted	128	824.2	32.02	32.5	1.12	0.0266	0.0297		

	GSM1900 – Head SAR Test										
Plot	t Test Position	Test Position	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled		
No.	Mode	Head	СН.	CH MH-	MHz	Power	Limit	it Scanng Factor	(W/kg)	SAR1g	
NO.		IIcau		WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)		
12	GSM	Right Cheek	512	1850.2	28.94	29.0	1.01	<mark>0.0957</mark>	0.0970		
13	GSM	Right Tilted	512	1850.2	28.94	29.0	1.01	0.0392	0.0397		
14	GSM	Left Cheek	512	1850.2	28.94	29.0	1.01	0.0897	0.0909		
15	GSM	Left Tilted	512	1850.2	28.94	29.0	1.01	0.0191	0.0194		

	WCDMA Band V – Head SAR Test										
Plot	Plot	Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled		
No.	Mode		Head CH. MHz Power Limit (dBm) (dBm) Fact	J	(W/kg)	SAR1g					
NO.		Heau		WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)		
25	RMC	Right Cheek	4183	836.6	22.31	22.5	1.04	<mark>0.0360</mark>	0.0376		
26	RMC	Right Tilted	4183	836.6	22.31	22.5	1.04	0.0037	0.0039		
27	RMC	Left Cheek	4183	836.6	22.31	22.5	1.04	0.0187	0.0195		
28	RMC	Left Tilted	4183	836.6	22.31	22.5	1.04	0.0050	0.0052		

	WCDMA Band II – Head SAR Test												
Plot		Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled				
No.	Mode	Head	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g				
110.		IIcau	0220	IVIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)				
36	RMC	Right Cheek	9262	1852.4	22.15	22.5	1.08	0.0453	0.0491				
37	RMC	Right Tilted	9262	1852.4	22.15	22.5	1.08	0.0038	0.0041				
38	RMC	Left Cheek	9262	1852.4	22.15	22.5	1.08	<mark>0.0534</mark>	0.0579				
39	RMC	Left Tilted	9262	1852.4	22.15	22.5	1.08	0.0061	0.0066				

	WLAN 2.4GHz – Head SAR Test												
Plot	Plot Test Postion		Freq	uency	Output	Rated	Scaling	SAR1g	Scaled				
No.	Mode	Head	CH.	MHz	Power	Limit	Factor	(W/kg)	SAR1g				
140.		Heau	CII.	WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)				
47	802.11b	Right Cheek	01	2412	12.49	13.0	1.12	<mark>0.3583</mark>	0.4002				
48	802.11b	Right Tilted	01	2412	12.49	13.0	1.12	0.0769	0.0859				
49	802.11b	Left Cheek	01	2412	12.49	13.0	1.12	0.0594	0.0663				
50	802.11b	Left Tilted	01	2412	12.49	13.0	1.12	0.0363	0.0405				

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	CII	MII-	Power	Limit	Factor	(W/kg)	SAR1g	
110.		Douy	CH.	MHz	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)	
5	GSM	Back	128	824.2	32.02	32.5	1.12	0.1427	0.1594	
6	GSM	Front	128	824.2	32.02	32.5	1.12	0.1290	0.1441	

	GSM1900 – Body SAR Test (Gap: 10mm)										
Plot		Tost Postion	Frequ	Frequency		Rated	Scaling	SAD1a	Scaled		
No.	Mode	Test Postion Body			Power	Limit	Factor	SAR1g (W/kg)	SAR1g		
110.		Douy	СН.	MHz	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)		
16	GSM	Back	512	1710.2	28.94	29.0	1.01	<mark>0.5747</mark>	0.5827		
17	GSM	Front	512	1710.2	28.94	29.0	1.01	0.1859	0.1885		

		WCDMA	Band V	– Body SA	R Test (Ga	ap: 10mm))		
Plot		Test Postion	Freq	uency	Output Rated		Scaling	SAR1g	Scaled
No.	Mode	Body	CII	MII-	Power	Limit	Factor	(W/kg)	SAR1g
140.		Douy	СН.	MHz	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)
34	RMC 12.2k	Back	4183	836.6	22.31	22.5	1.04	<mark>0.1968</mark>	0.2056
35	RMC 12.2k	Front	4183	836.6	22.31	22.5	1.04	0.0988	0.1032

		WCDMA	Band II	– Body SA	R Test (Ga	ap: 10mm)		
Plot		Test Postion	Freq	Frequency		Rated	Scaling	SAR1g	Scaled
No.	Mode	Body	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g
140.		Douy	CH.	MIHZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)
45	RMC 12.2k	Back	9262	1852.4	22.15	22.5	1.08	<mark>0.2576</mark>	0.2792

		WLAN	2.4GHz -	-Body SAI	R Test(Gap	: 10mm)			
Plot		Tost Postion	Freq	Frequency		Rated	Scaling	SAR1g	Scaled
No.	Mode	Mode Test Postion Body	CH MIL-		Power Limit		Factor	(W/kg)	SAR1g
110.		Douy	CH. MHz	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)	
55	802.11b	Back	01	2412	15.02	15.5	1.12	0.1122	0.1253
	802.11b	Front	01	2412	15.02	15.5	1.12	0.0485	0.0542

Remark:

1. 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	Frequ	uency	Output	Rated	Scaling	SAR1g	Scaled				
No.	Mode	Body	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g				
140.		Douy	CII. WIIIZ	(dBm)	(dBm)	Tactor	(W/Kg)	(W/kg)					
7	GPRS_4TX	Back Side	128	824.2	27.74	28.0	1.06	<mark>0.1722</mark>	0.1828				
8	GPRS_4TX	Front Side	128	824.2	27.74	28.0	1.06	0.0569	0.0604				
9	GPRS_4TX	Bottom side	128	824.2	27.74	28.0	1.06	0.0579	0.0615				
10	GPRS_4TX	Right side	128	824.2	27.74	28.0	1.06	0.0723	0.0768				
11	GPRS_4TX	Left side	128	824.2	27.74	28.0	1.06	0.0765	0.0812				

	GSM1900 – Body SAR Test (Gap: 10mm)													
Plot		Test Postion	Frequ	uency	Output	Rated	Scaling	SAR1g	Scaled					
No.	Mode	Body	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g					
140.		Body	CII.	WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)					
18	GPRS_4TX	Back Side	810	1909.8	24.94	25.0	1.01	1.0745	1.0894					
19	GPRS_4TX	Back Side	512	1850.2	24.75	25.0	1.06	0.5246	0.5557					
20	GPRS_4TX	Back Side	661	1880.0	24.78	25.0	1.05	0.7659	0.8057					
21	GPRS_4TX	Front Side	810	1909.8	24.94	25.0	1.01	0.2895	0.2935					
22	GPRS_4TX	Bottom side	810	1909.8	24.94	25.0	1.01	0.1752	0.1776					
23	GPRS_4TX	Right side	810	1909.8	24.94	25.0	1.01	0.0365	0.0370					
24	GPRS_4TX	Left side	810	1909.8	24.94	25.0	1.01	0.0729	0.0739					

	WCDMA Band V – Body SAR Test (Gap: 10mm)												
Plot		Test Postion	Freq	Frequency		Rated	Scaling	SAR1g	Scaled				
No.	Mode	Body	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g				
		·			(dBm)	(dBm)			(W/kg)				
29	RMC 12.2k	Back Side	4183	836.6	22.31	22.5	1.04	<mark>0.1126</mark>	<mark>0.1176</mark>				
30	RMC 12.2k	Front Side	4183	836.6	22.31	22.5	1.04	0.0494	0.0516				
31	RMC 12.2k	Bottom side	4183	836.6	22.31	22.5	1.04	0.0354	0.0370				
32	RMC 12.2k	Right side	4183	836.6	22.31	22.5	1.04	0.0376	0.0393				
33	RMC 12.2k	Left side	4183	836.6	22.31	22.5	1.04	0.0401	0.0419				

	WCDMA Band II – Body SAR Test (Gap: 10mm)												
Plot		Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled				
No.	Mode	Body	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g				
140.		Douy	CII.	WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)				
40	RMC 12.2k	Back Side	9262	1852.4	22.15	22.5	1.08	<mark>0.3313</mark>	0.3591				
41	RMC 12.2k	Front Side	9262	1852.4	22.15	22.5	1.08	0.0868	0.0941				
42	RMC 12.2k	Bottom side	9262	1852.4	22.15	22.5	1.08	0.0087	0.0094				
43	RMC 12.2k	Right side	9262	1852.4	22.15	22.5	1.08	0.0843	0.0914				
44	RMC 12.2k	Left side	9262	1852.4	22.15	22.5	1.08	0.0812	0.0880				

	WLAN 2.4GHz –Body SAR Test(Gap: 10mm)											
Plot		Test Postion	Freq	uency	Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode	Body	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g			
110.		Dody	CII.	WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)			
51	802.11b	Back Side	01	2412	12.49	13.0	1.12	<mark>0.1127</mark>	0.1259			
52	802.11b	Front Side	01	2412	12.49	13.0	1.12	0.0715	0.0799			
53	802.11b	Top Side	01	2412	12.49	13.0	1.12	0.0765	0.0854			
54	802.11b	Left side	01	2412	12.49	13.0	1.12	0.0053	0.0059			

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

9.3 Simultaneous Multi-band Transmission SAR Analysis

List of Mode for Simultanous 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	HSUPA + WLAN	-	-	Yes
5	HSDPA + WLAN	-	-	Yes
6	GSM + Bluetooth	Yes	Yes	-
7	GPRS + Bluetooth	-	-	Yes
8	WCDMA + Bluetooth	Yes	Yes	-
9	HSUPA + Bluetooth	-	-	Yes
10	HSDPA + 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 D01 v05r01, 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, Bluetooth SAR is estimated per KDB 447498 D01 v05r01 as below:

4. The maximum SAR summation is calculated based on the same configuration and test position. If 1g-SAR scalar summation < 1.6W/kg, simultaneous SAR measurement is not necessary.

Head SAR WWAN and WLAN

	ww	'AN	WLAN	Summed SAR
Position	Band	Scaled SAR	Scaled SAR	(W/kg)
1 OSITION	Dunu	(W/kg)	(W/kg)	(**************************************
Right Cheek	GSM850	0.0768	0.4002	0.4770
Right Tilted	GSM850	0.0347	0.0859	0.1206
Left Cheek	GSM850	0.0542	0.0663	0.1205
Left Tilted	GSM850	0.0297	0.0405	0.0702
Right Cheek	GSM1900	0.0970	0.4002	0.4972
Right Tilted	GSM1900	0.0397	0.0859	0.1256
Left Cheek	GSM1900	0.0909	0.0663	0.1572
Left Tilted	GSM1900	0.0194	0.0405	0.0599
Right Cheek	WCDMA Band V	0.0376	0.4002	0.4378
Right Tilted	WCDMA Band V	0.0039	0.0859	0.0898
Left Cheek	WCDMA Band V	0.0195	0.0663	0.0858
Left Tilted	WCDMA Band V	0.0052	0.0405	0.0457
Right Cheek	WCDMA Band II	0.0491	0.4002	0.4493
Right Tilted	WCDMA Band II	0.0041	0.0859	0.0900
Left Cheek	WCDMA Band II	0.0579	0.0663	0.1242
Left Tilted	WCDMA Band II	0.0066	0.0405	0.0471

WWAN and Bluetooth

	WWA	AN	Bluetooth	C
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	Summed SAR (W/kg)
Right Cheek	GSM850	0.0768	0.0933	0.1701
Right Tilted	GSM850	0.0347	0.0933	0.128
Left Cheek	GSM850	0.0542	0.0933	0.1475
Left Tilted	GSM850	0.0297	0.0933	0.1230
Right Cheek	GSM1900	0.0970	0.0933	0.1903
Right Tilted	GSM1900	0.0397	0.0933	0.1330
Left Cheek	GSM1900	0.0909	0.0933	0.1842
Left Tilted	GSM1900	0.0194	0.0933	0.1127
Right Cheek	WCDMA Band V	0.0376	0.0933	0.1309
Right Tilted	WCDMA Band V	0.0039	0.0933	0.0972
Left Cheek	WCDMA Band V	0.0195	0.0933	0.1128
Left Tilted	WCDMA Band V	0.0052	0.0933	0.0985
Right Cheek	WCDMA Band II	0.0491	0.0933	0.1424
Right Tilted	WCDMA Band II	0.0041	0.0933	0.0974
Left Cheek	WCDMA Band II	0.0579	0.0933	0.1512
Left Tilted	WCDMA Band II	0.0066	0.0933	0.0999

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Body-worn SAR WWAN and WLAN

	WWAN		WLAN	Summed SAR
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	(W/kg)
Back	GSM850	0.1594	0.1253	0.2847
Front	GSM850	0.1441	0.0542	0.1983
Back	GSM1900	0.5827	0.1253	0.7080
Front	GSM1900	0.1885	0.0542	0.2427
Back	WCDMA Band V	0.2056	0.1253	0.3309
Front	WCDMA Band V	0.1032	0.0542	0.1574
Back	WCDMA Band II	0.2792	0.1253	0.4045
Front	WCDMA Band II	0.1280	0.0542	0.1822

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	(W/kg)
Back	GSM850	0.1594	0.0933	0.2527
Front	GSM850	0.1441	0.0933	0.2374
Back	GSM1900	0.5827	0.0933	0.6760
Front	GSM1900	0.1885	0.0933	0.2818
Back	WCDMA Band V	0.2056	0.0933	0.2989
Front	WCDMA Band V	0.1032	0.0933	0.1965
Back	WCDMA Band II	0.2792	0.0933	0.3725
Front	WCDMA Band II	0.1280	0.0933	0.2213

Hotspot SAR WWAN and WLAN

	ww	'AN	WLAN	G IGAD
Position	Band	Scaled SAR	Scaled SAR	Summed SAR (W/kg)
Position	Danu	(W/kg)	(W/kg)	(W/Kg)
Back	GSM850	0.1828	0.1259	0.3087
Front	GSM850	0.0604	0.0799	0.1403
Top side	GSM850	-	0.0854	0.0854
Bottom side	GSM850	0.0615	-	0.0615
Right side	GSM850	0.0768	-	0.0768
Left side	GSM850	0.0812	0.0059	0.0871
Back	GSM1900	1.0894	0.1259	1.2153
Front	GSM1900	0.2935	0.0799	0.3734
Top side	GSM1900	-	0.0854	0.0854
Bottom side	GSM1900	0.1776	-	0.1776
Right side	GSM1900	0.0370	-	0.0370
Left side	GSM1900	0.0739	0.0059	0.0798
Back	WCDMA Band V	0.1176	0.1259	0.2435
Front	WCDMA Band V	0.0516	0.0799	0.1315
Top side	WCDMA Band V	-	0.0854	0.0854
Bottom side	WCDMA Band V	0.0370	-	0.0370
Right side	WCDMA Band V	0.0393	-	0.0393
Left side	WCDMA Band V	0.0419	0.0059	0.0478
Back	WCDMA Band II	0.3591	0.1259	0.485
Front	WCDMA Band II	0.0941	0.0799	0.174
Top side	WCDMA Band II	-	0.0854	0.0854
Bottom side	WCDMA Band II	0.0094	-	0.0094
Right side	WCDMA Band II	0.0914	-	0.0914
Left side	WCDMA Band II	0.0880	0.0059	0.0939

WWAN and Bluetooth

	WW	AN	Bluetooth	
D:4:	D J	Scaled SAR	Scaled SAR	Summed SAR
Position	Band	(W/kg)	(W/kg)	(W/kg)
Back	GSM850	0.1828	0.0933	0.2761
Front	GSM850	0.0604	0.0933	0.1537
Top side	GSM850	-	0.0933	0.0933
Bottom side	GSM850	0.0615	0.0933	0.1548
Right side	GSM850	0.0768	0.0933	0.1701
Left side	GSM850	0.0812	0.0933	0.1745
Back	GSM1900	1.0894	0.0933	1.1827
Front	GSM1900	0.2935	0.0933	0.3868
Top side	GSM1900	-	0.0933	0.0933
Bottom side	GSM1900	0.1776	0.0933	0.2709
Right side	GSM1900	0.0370	0.0933	0.1303
Left side	GSM1900	0.0739	0.0933	0.1672
Back	WCDMA Band V	0.1176	0.0933	0.2109
Front	WCDMA Band V	0.0516	0.0933	0.1449
Top side	WCDMA Band V	-	0.0933	0.0933
Bottom side	WCDMA Band V	0.0370	0.0933	0.1303
Right side	WCDMA Band V	0.0393	0.0933	0.1326
Left side	WCDMA Band V	0.0419	0.0933	0.1352
Back	WCDMA Band II	0.3591	0.0933	0.4524
Front	WCDMA Band II	0.0941	0.0933	0.1874
Top side	WCDMA Band II	-	0.0933	0.0933
Bottom side	WCDMA Band II	0.0094	0.0933	0.1027
Right side	WCDMA Band II	0.0914	0.0933	0.1847
Left side	WCDMA Band II	0.0880	0.0933	0.1813

10. Measurement Uncertainty

10.1 Uncertainty for EUT SAR Test

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	×
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	∞
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∝
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	-x
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	∞
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	∝
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	√3	1	1	2.89	2.89	&
Test Sample Related		I.	I	l .					
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	6.6.2	12.02	R	√3	1	1	6.94	6.94	œ
drift measurement									
Phantom and Tissue Parameters		Π	I	ı ,	I	T	T	T	
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	√3	1	1	0.03	0.03	∞
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 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
Enquire permittivity -	د.د.ب	10.00	7.4	1	0.0	0.77	0.00	1.70	141

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	∞
Reponse Time	E.2.7	3.0	R	√3	1	1	1.73	1.73	~
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	~
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	8
Probe positioner Mechanical	E.6.2	2.0	R	√3	1	1	1.15	1.15	œ
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	$\sqrt{3}$	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	∞
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	√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: 07/14/2014

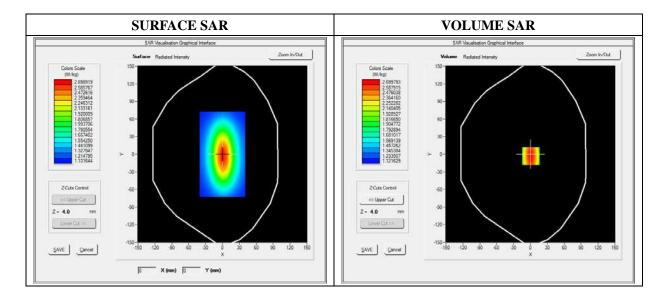
Measurement duration: 7 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	dx=8mm dy=8mm			
Phantom	Validation plane			
Device Position	Dipole			
Band	CW835			
Channels	Middle			
Signal	CW (Crest factor: 1.0)			

Frequency (MHz)	835.000000		
Relative Permittivity (real part)	40.0200000		
Conductivity (S/m)	0.910000		
Power Variation (%)	1.810000		
Ambient Temperature	21.1		
Liquid Temperature	21.3		

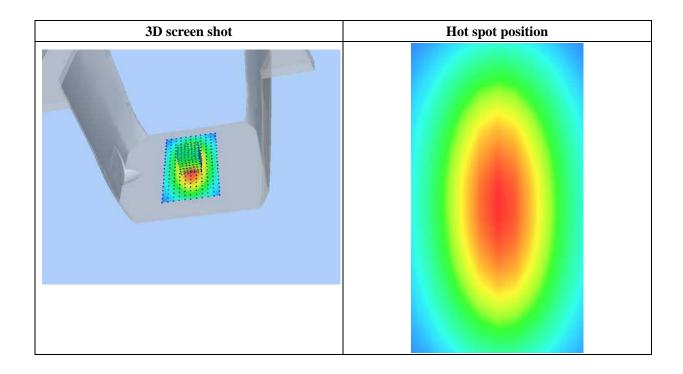


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.545500
SAR 1g (W/Kg)	2.460145

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	2.5411	1.8756	1.4012	1.20124	1.1514	1.0698
(W/Kg)							
	2.50	00-					
	2.37	75-					
	_ 2.15	50-	\longrightarrow				
	- B 1.82	25-	+				
	≥ 1.50 Yy 1.50	00-	++				
	ිරි 1.37						
	1.15						
	1.02					Ļ .	
		0.0 2.5 5.0	7.5 10.0 12.515	.0 17.520.0 22.5	25.0 27.530.0 3	2.535.0	
				Z (mm)			



For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 07/14/2014

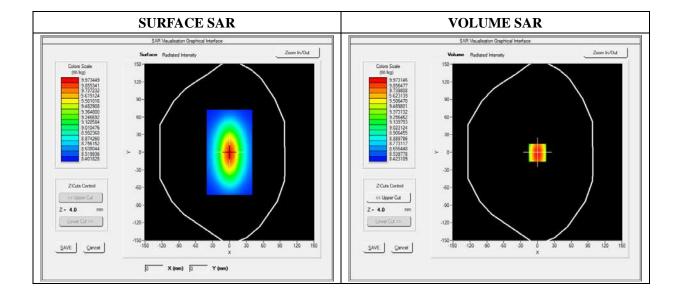
Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	dx=8mm dy=8mm			
Phantom	Validation plane			
Device Position	Dipole			
Band	CW1900			
Channels	Middle			
Signal	CW (Crest factor: 1.0)			

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	38.912360
Conductivity (S/m)	1.410000
Power Variation (%)	-0.523000
Ambient Temperature	21.1
Liquid Temperature	21.3

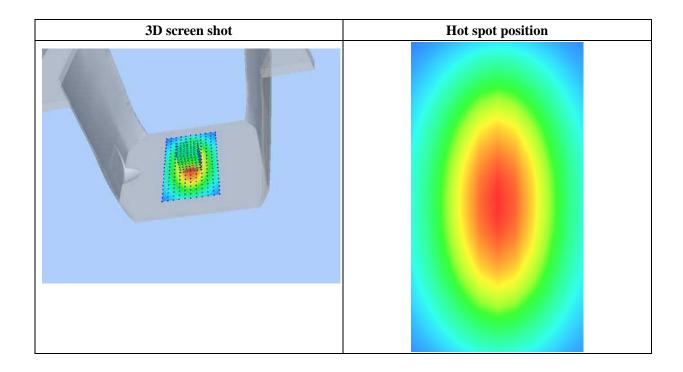


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	7.003210				
SAR 1g (W/Kg)	10.203214				

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	10.1019	7.1125	5.2120	4.0112	3.2104	2.2442
(W/Kg)							
	10.27 9.25 7.60 WW 6.17 EWS 4.50 3.05 2.03	7-		0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 3	2.5 35.0	



For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 07/14/2014

Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 2013/03/21

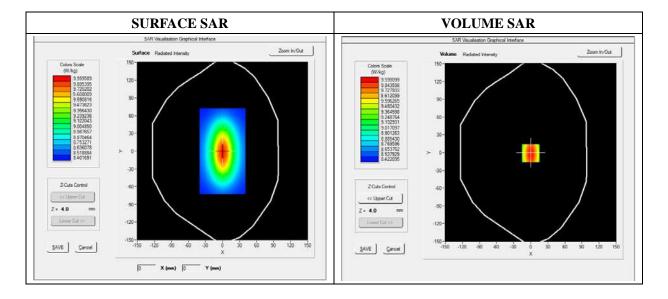
A. Experimental conditions

Area Scan	dx=8mm dy=8mm		
Phantom	Validation plane		
Device Position	Dipole		
Band	CW2450		
Channels	Middle		
Signal	CW (Crest factor: 1.0)		

B. SAR Measurement Results

Middle Band SAR

Frequency (MHz)	2450.000000		
Relative Permittivity (real part)	38.762140		
Conductivity (S/m)	1.781240		
Power Variation (%)	1.144120		
Ambient Temperature	21.1		
Liquid Temperature	21.2		

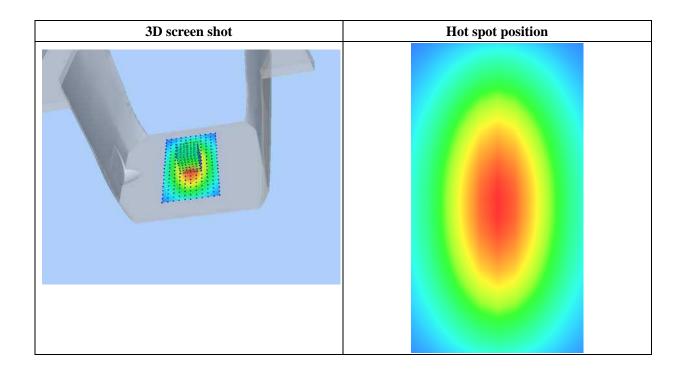


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	8.021554
SAR 1g (W/Kg)	13.102505

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	14.1355	12.0120	10.2601	7.4845	5.9123	4.5212
(W/Kg)							
	14.27 13.25 10.60 SW/W 7.77 EV 6.50 4.05 3.03	7	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	



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 07/14/2014

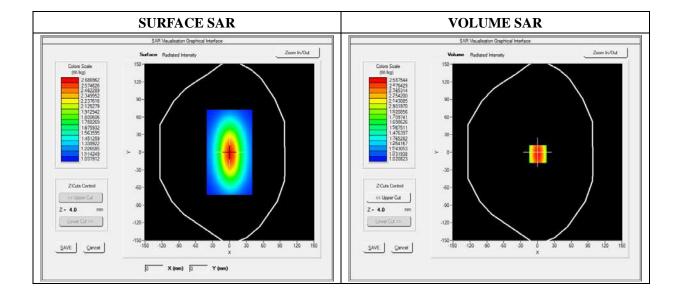
Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	dx=8mm dy=8mm		
Phantom	Validation plane		
Device Position	Dipole		
Band	CW835		
Channels	Middle		
Signal	CW (Crest factor: 1.0)		

Frequency (MHz)	835.000000		
Relative Permittivity (real part)	54.492364		
Conductivity (S/m)	0.963236		
Power Variation (%)	0.926400		
Ambient Temperature	21.1		
Liquid Temperature	21.3		

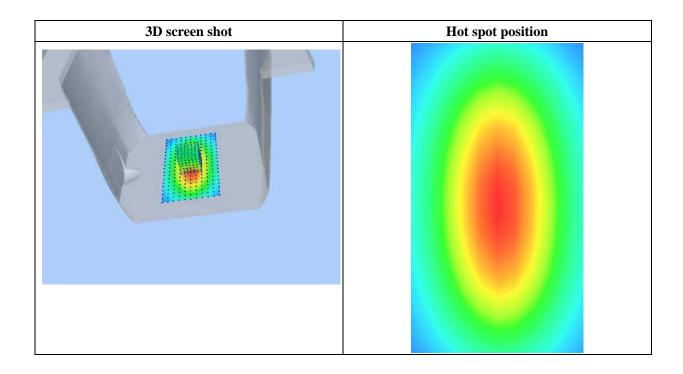


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.502100		
SAR 1g (W/Kg)	2.521346		

Z Axis Scan

0.00	4.00	9.00	14.00	19.00	24.00	29.00
0.0000	2.5989	1.6985	1.1642	0.8322	0.5521	0.4025
2.59)-					
2.18	s- - - - - - - - - - - - - - - - - - -					
_ 1.74	1-	$\overline{}$				
<u></u> ₹ 1.52						
H 1.30						
1.10						
0.64	ı-		++	+		
0.43	3- 0.0 2.5 5.0 7		0 17.520.0 22.5	25.0 27.5 30.0 3	2.5 35.0	
			Z (mm)			
	0.0000 2.55 2.16 1.74 1.52 1.30 8.0 0.64	2.5989 2.59- 2.16- 1.74- 1.52- 1.30- 2.5989	0.0000 2.5989 1.6985 2.59 2.16 1.74 1.52 1.30 0.86 0.64 0.43	0.0000 2.5989 1.6985 1.1642 2.59 2.16 1.74 1.52 1.30 1.18 0.86 0.64 0.43 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.520.0 22.5	0.0000 2.5989 1.6985 1.1642 0.8322 2.59 2.16 1.74 1.52 1.30 1.18 0.86 0.64 0.43 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 3	0.0000 2.5989 1.6985 1.1642 0.8322 0.5521 2.59 2.16 1.74 1.52 1.30 1.18 0.86 0.64 0.43 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



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 07/14/2014

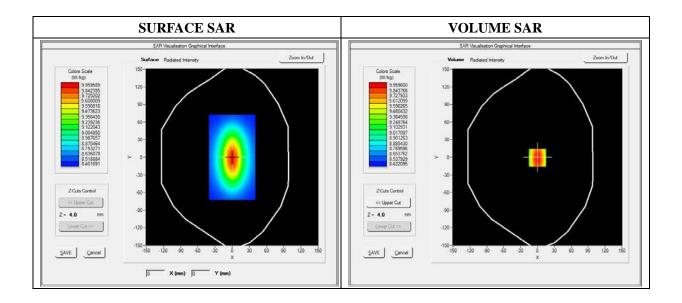
Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	dx=8mm dy=8mm		
Phantom Validation plane			
Device Position	Dipole		
Band	CW1900		
Channels	Middle		
Signal	CW (Crest factor: 1.0)		

Frequency (MHz)	1900.000000		
Relative Permittivity (real part)	52.394440		
Conductivity (S/m)	1.491240		
Power Variation (%)	0.768521		
Ambient Temperature	21.1		
Liquid Temperature	21.3		

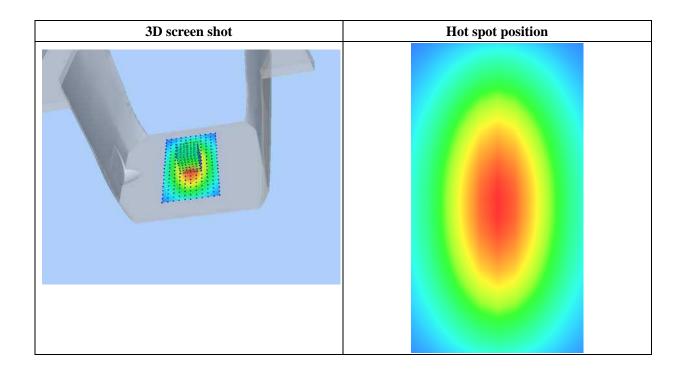


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.102232		
SAR 1g (W/Kg)	10.092420		

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	10.1564	6.4363	5.1336	3.9541	3.1262	2.7601
(W/Kg)							
	10.27 9.25 7.60 WW 6.17 EVS 4.50 3.05 2.03	7-	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	



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 07/14/2014

Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

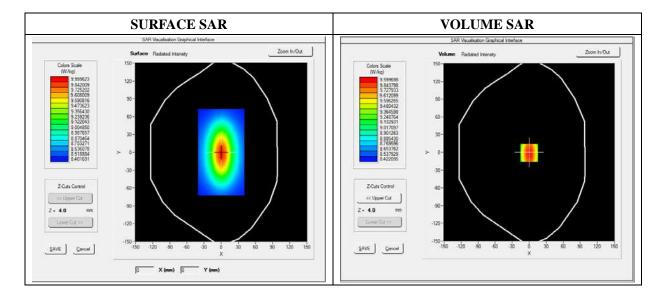
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Middle Band SAR

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	52.431240
Conductivity (S/m)	1.921230
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2

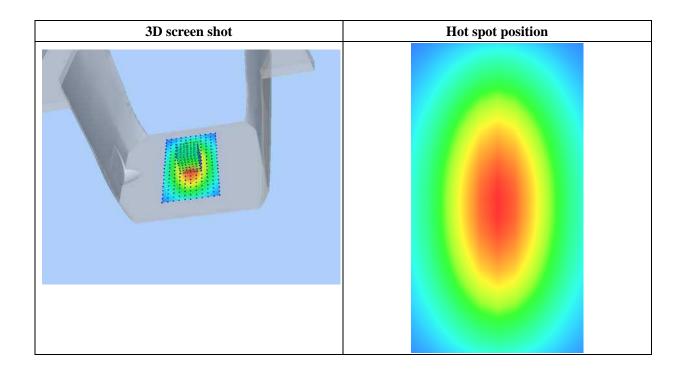


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	7.128414
SAR 1g (W/Kg)	12.863122

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	13.3942	11.8625	9.3022	8.5761	6.3612	4.5695
(W/Kg)							
	13.27	1					
	12.25	,					
	7.60)-	$\overline{}$				
	SAB (WINg	7-		\perp			
	SAB		$ \cdot \cdot $				
	4.50)-					
3.05 - 2.03 -							
0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0 32.5 35.0							
Z (mm)							



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 dev position on Low Channel in GSM mode		
Phone	GSM1900 Measurement 13: Right Head with Tilt device on Low Channel in GSM mode		
Phone	GSM1900	Measurement 14: Left Head with Cheek device position on Low Channel in GSM mode	
Phone	GSM1900	Measurement 15: Left Head with Tilt device position on Low Channel in GSM mode	
Phone	GSM1900	Measurement 16: Flat Plane with Back(Body-worn) device position on Low Channel in GSM mode	
Phone	GSM1900 Measurement 17: Flat Plane with Front(Body-wo device position on Low Channel in GSM mode		
Phone	GPRS1900_4TX	Measurement 18: Flat Plane with Back device position on High Channel in GPRS mode	
Phone	GPRS1900_4TX	Measurement 19: Flat Plane with Back device position on Low Channel in GPRS mode	

Phone	GPRS1900_4TX	Measurement 20: Flat Plane with Back device position
		on Middle Channel in GPRS mode
Phone	GPRS1900_4TX Measurement 21: Flat Plane with Front device posit on High Channel in GPRS mode	
Phone	GPRS1900_4TX	Measurement 22: Flat Plane with Bottom side device position on High Channel in GPRS mode
Phone	GPRS1900_4TX	Measurement 23: Flat Plane with Right side device
	_	position on High Channel in GPRS mode
Phone	GPRS1900_4TX	Measurement 24: Flat Plane with Left side device position on High Channel in GPRS mode
		Measurement 25: Right Head with Cheek device
Phone	WCDMA850_RMC	position on Middle Channel in WCDMA mode
TD1	IVCDMA 050 DMC	Measurement 26: Right Head with Tilt device position
Phone	WCDMA850_RMC	on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 27: Left Head with Cheek device position
1 Hone	WCDMA03U_RMC	on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 28: Left Head with Tilt device position
	VV CDIVITIOU _ ILIVIC	on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 29: Flat Plane with Back device position
	_	on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 30: Flat Plane with Front device position
		on Middle Chann0el in WCDMA mode
Phone	WCDMA850_RMC	Measurement 31: Flat Plane with Bottom side device position on Middle Channel in WCDMA mode
		Measurement 32: Flat Plane with Right side device
Phone	WCDMA850_RMC	position on Middle Channel in WCDMA mode
DI	WCDMA 070 DMC	Measurement 33: Flat Plane with Left side device
Phone	WCDMA850_RMC	position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 34: Flat Plane with Back(Body-worn)
1 Hone	WCDMA03U_RMC	device position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 35: Flat Plane with Front(Body-worn)
	, , e z ::	device position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 36: Right Head with Cheek device position on Low Channel in WCDMA mode
DI	WCDMA4000 DAGC	Measurement 37: Right Head with Tilt device position
Phone	WCDMA1900_RMC	on Low Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 38: Left Head with Cheek device position
1 Hone	VI CDIVIA 1900_RIVIC	on Low Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 39: Left Head with Tilt device position
	., 521.4127.00_4474.0	on Low Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 40: Flat Plane with Back device position
		on Low Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 41: Flat Plane with Front device position
	1	on Low Channel in WCDMA mode

		M (40 Fl (D) (41 D () (11 1 1
Phone	Phone WCDMA1900_RMC	Measurement 42: Flat Plane with Bottom side device
		position on Low Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 43: Flat Plane with Right side device
	*** • • • • • • • • • • • • • • • • • •	position on Low Channel in WCDMA mode
Phone	WCDMA1900 RMC	Measurement 441: Flat Plane with Left side device
Thone	WCDMAI900_RMC	position on Low Channel in WCDMA mode
Phone	WCDMA1900 RMC	Measurement 45: Flat Plane with Back(Body-worn)
Phone	WCDMA1900_RMC	device position on Low Channel in WCDMA mode
DI	WCDMA 1000 DMC	Measurement 46: Flat Plane with Front(Body-worn)
Phone	WCDMA1900_RMC	device position on Low Channel in WCDMA mode
TO I	TT//TT/ 000 111	Measurement 47: Right Head with Cheek device
Phone	WiFi_802.11b	position on Low Channel in 802.11b mode
DI	11/15' 00A 111	Measurement 48: Right Head with Tilt device position
Phone	WiFi_802.11b	on Low Channel in 802.11b mode
DI	11/15' 000 111	Measurement 49: Left Head with Cheek device position
Phone	WiFi_802.11b	on Low Channel in 802.11b mode
Di	11/1E: 003 111	Measurement 50: Left Head with Tilt device position
Phone	WiFi_802.11b	on Low Channel in 802.11b mode
DI	11/15' 00A 111	Measurement 51: Flat Plane with Back side device
Phone	WiFi_802.11b	position on Low Channel in 802.11b mode
TO I	TT//TT/ 000 111	Measurement 52: Flat Plane with Front side device
Phone	WiFi_802.11b	position on Low Channel in 802.11b mode
TO I	TT//TT/ 004 111	Measurement 53: Flat Plane with Top side device
Phone	WiFi_802.11b	position on Low Channel in 802.11b mode
TO I	TT//TT/ 000 441	Measurement 54: Flat Plane with Left side device
Phone	WiFi_802.11b	position on Low Channel in 802.11b mode
	TTUTE 000 443	Measurement 55: Flat Plane with Back(Body-worn)
Phone	WiFi_802.11b	device position on Low Channel in 802.11b mode
		Measurement 56: Flat Plane with Front(Body-worn)
Phone	WiFi_802.11b	device position on Low Channel in 802.11b mode
	1	T

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Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

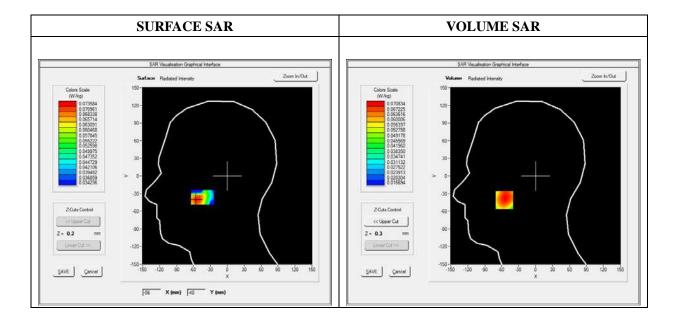
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.0)

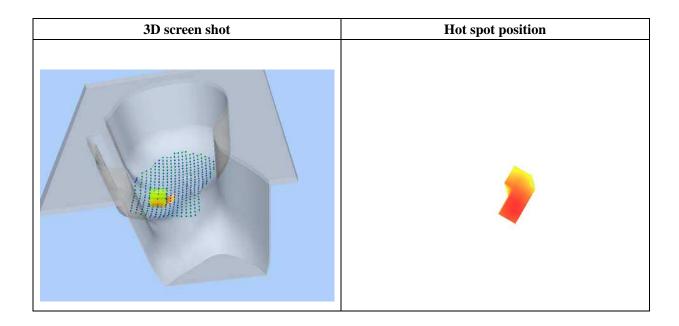
Frequency (MHz)	824.200000
Relative Permittivity (real part)	40.0200000
Conductivity (S/m)	0.910000
Power Variation (%)	1.810000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-55.00, Y=-41.00

SAR 10g (W/Kg)	0.053593
SAR 1g (W/Kg)	0.068812

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0704	0.0582	0.0486	0.0409
	0.070-				
	0.065	\longrightarrow	\perp		
	0.060-	\rightarrow	\rightarrow		
	0.055	\rightarrow	+++		
	S 0.050-	-	\rightarrow		
	ි 0.045 –		+		
	0.040-		++		
	0.034-	-	+++		
	0.0 2.9	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: 07/14/2014

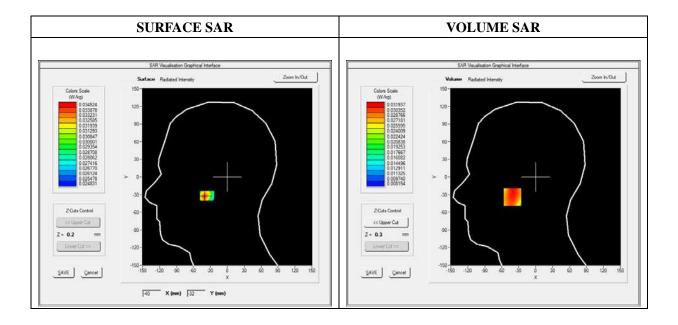
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.0)

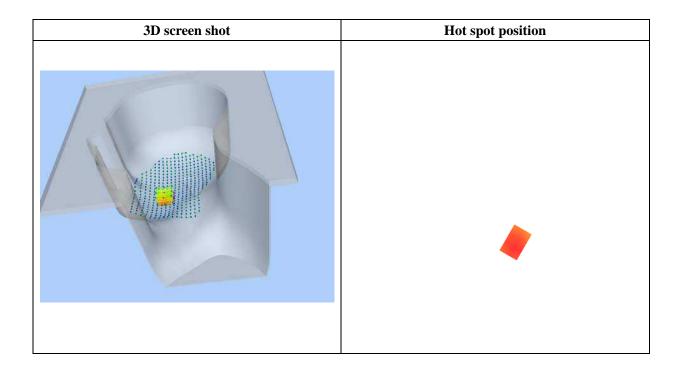
Frequency (MHz)	824.200000
Relative Permittivity (real part)	40.0200000
Conductivity (S/m)	0.910000
Power Variation (%)	1.810000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-41.00, Y=-34.00

SAR 10g (W/Kg)	0.024777
SAR 1g (W/Kg)	0.031132

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0314	0.0265	0.0225	0.0192
	0.031 - 0.030 - 0.028 - 0.026 - 0.024 - 0.022 - 0.020 - 0.018 - 0.016 - 0.0 2.) 12.5 15.0 17.5		1
			Z (mm)	25.5 22.6 26.6	



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

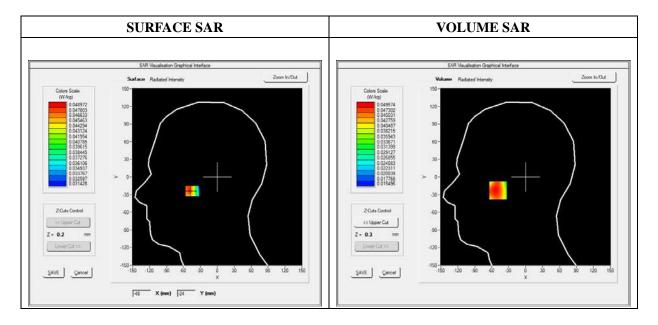
Measurement duration: 11 minutes 48 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.0)

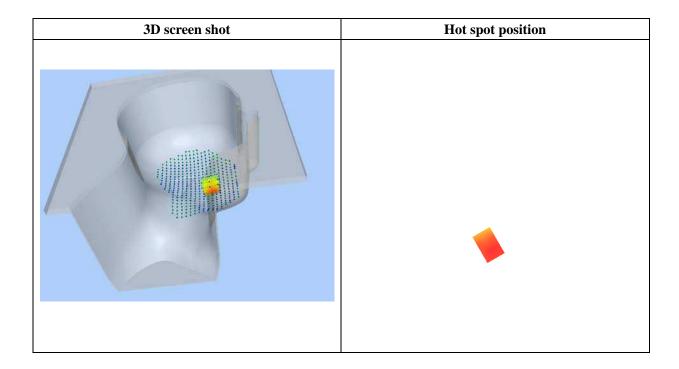
Frequency (MHz)	824.200000
Relative Permittivity (real part)	40.0200000
Conductivity (S/m)	0.910000
Power Variation (%)	1.810000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-49.00, Y=-23.00

SAR 10g (W/Kg)	0.038272
SAR 1g (W/Kg)	0.048467

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0488	0.0417	0.0357	0.0307
	0.049-				
	0.045-	\longrightarrow			
	₩ 0.040-	++	++		
	-040 W.W.B W.W.B W.W.B W.W.B W.W.B W.W.B W.W.B W.W.B W.W.B W.W.B W.W.B W.B		\rightarrow		
	0.030-				
	0.026 - 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: 07/14/2014

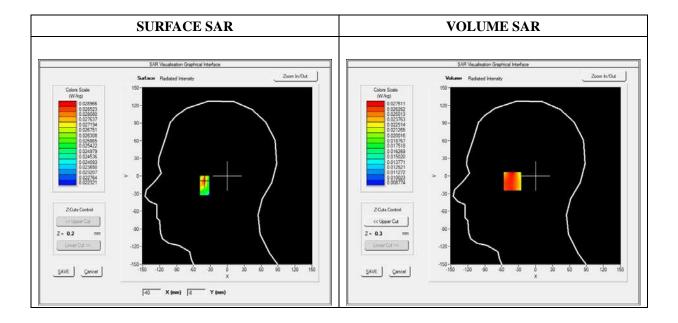
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.0)

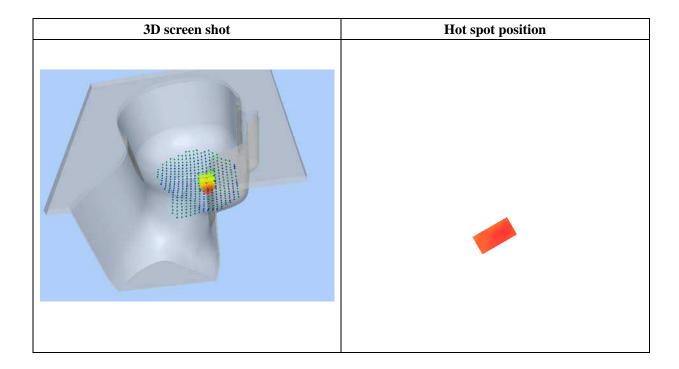
Frequency (MHz)	824.200012
Relative Permittivity (real part)	40.0200000
Conductivity (S/m)	0.910000
Power Variation (%)	1.810000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-41.00, Y=-8.00

SAR 10g (W/Kg)	0.021083	
SAR 1g (W/Kg)	0.026563	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0266	0.0217	0.0185	0.0164
	0.027-				
	0.024- B 0.022- W 0.020- W 0.020-				
	0.016- 0.015- 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: 07/14/2014

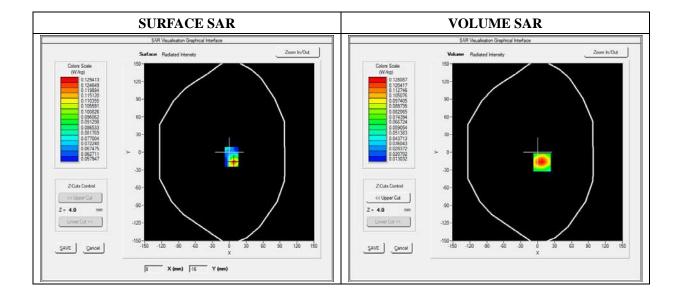
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.5; Calibrated: 2012/11/26

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back(Body-worn)
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.0)

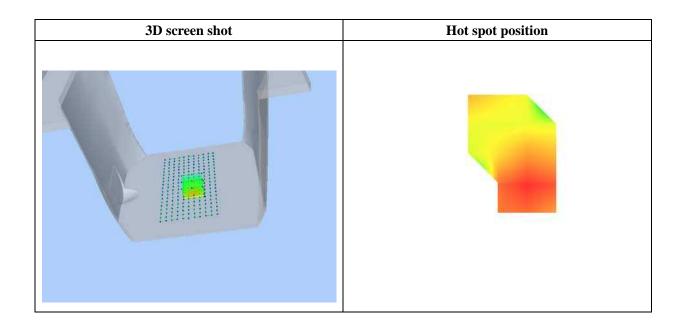
Frequency (MHz)	824.200000
Relative Permittivity (real part)	54.492364
Conductivity (S/m)	0.963236
Power Variation (%)	0.926400
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=8.00, Y=-17.00

SAR 10g (W/Kg)	0.086256
SAR 1g (W/Kg)	0.142734

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1281	0.0840	0.0558	0.0380
. 3,	0.13- 0.12- 0.10- 0.08- WW 0.08- 0.04- 0.04- 0.03- 0.0 2.5	5 5.0 7.5 10.0		20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

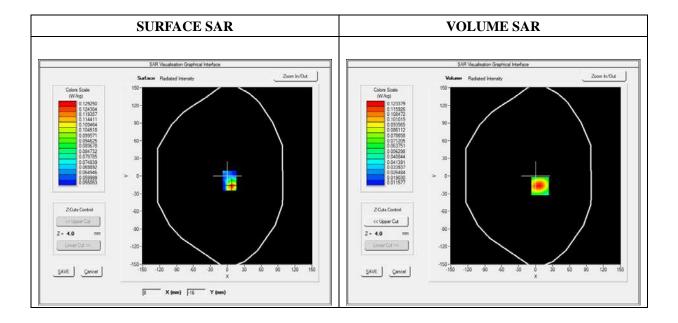
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.5; Calibrated: 2012/11/26

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front(Body-worn)
Band	GSM850
Channels	Low
Signal	TDMA (Crest factor: 8.0)

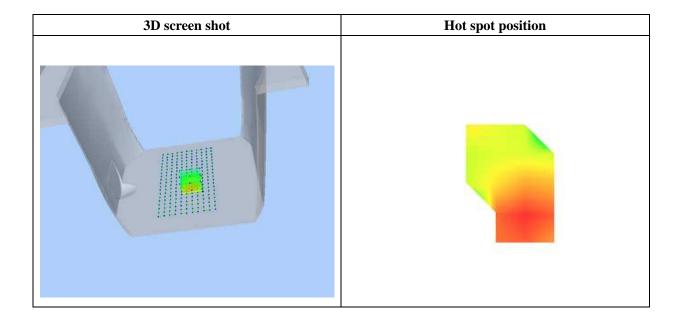
Frequency (MHz)	824.200000
Relative Permittivity (real part)	54.492364
Conductivity (S/m)	0.963236
Power Variation (%)	0.926400
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=8.00, Y=-17.00

SAR 10g (W/Kg)	0.079818
SAR 1g (W/Kg)	0.128954

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1234	0.0846	0.0580	0.0400
	0.12-				
	0.10-	+ $+$ $+$			
	<u> </u>				
	₹ 0.08-				
	-80.0 WH				
	0.04-		+		
	0.03				
	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: 07/14/2014

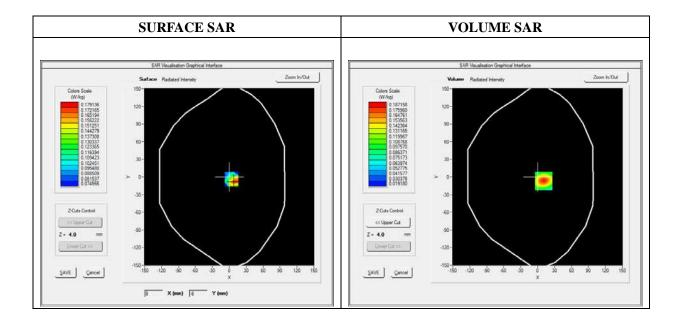
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.5; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Back		
Band	GPRS850_4TX		
Channels	Low		
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)		

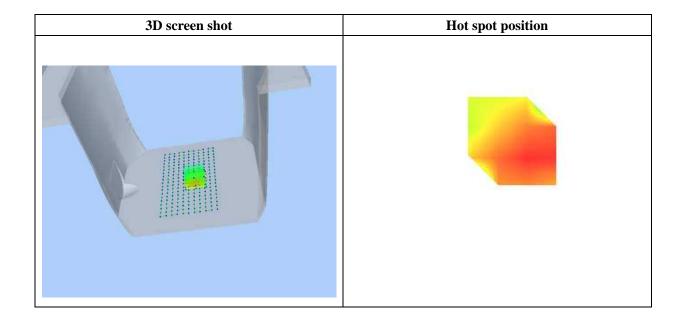
Frequency (MHz)	826.400000
Relative Permittivity (real part)	52.124510
Conductivity (S/m)	0.96000
Power Variation (%)	0.80000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=11.00, Y=-7.00

SAR 10g (W/Kg)	0.101906	
SAR 1g (W/Kg)	0.172246	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1872	0.1183	0.0764	0.0515
	0.19-				
	0.16-				
	_ 0.14-				
	≥ 0.12-				
	0.14- W 0.12- W 0.10-				
	0.08				
	0.06-				
	0.03-				
	0.0 2.5	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: 07/14/2014

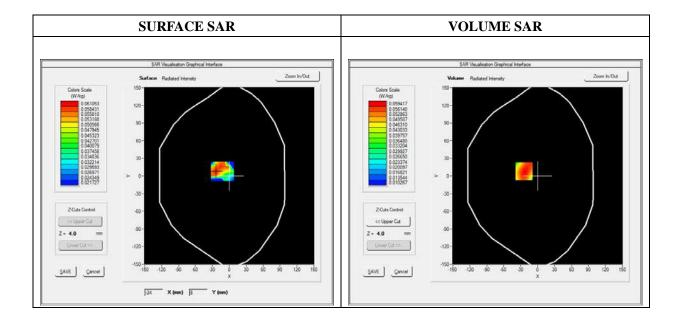
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.5; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat plane	
Device Position	Front	
Band	GPRS850_4TX	
Channels	Low	
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)	

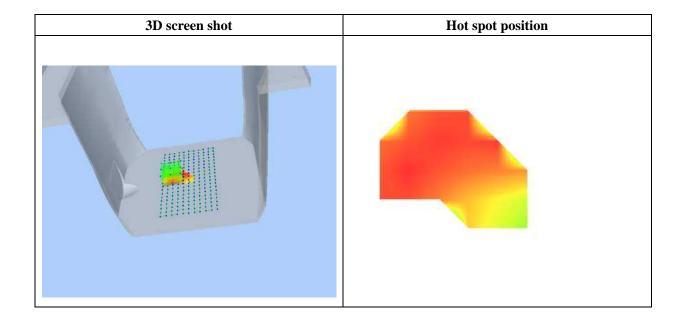
Frequency (MHz)	826.400000		
Relative Permittivity (real part)	52.124510		
Conductivity (S/m)	0.96000		
Power Variation (%)	0.80000		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-24.00, Y=8.00

SAR 10g (W/Kg)	0.038339		
SAR 1g (W/Kg)	0.056905		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0594	0.0398	0.0271	0.0190
	0.06-				
	0.05	$\overline{}$			
	<u> </u>				
	₹ 0.04				
	0.04 - W 0.03 -		\downarrow		
	0, 0.00				
	0.02-		+		
	0.01-				
	0.0 2.5	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: 07/14/2014

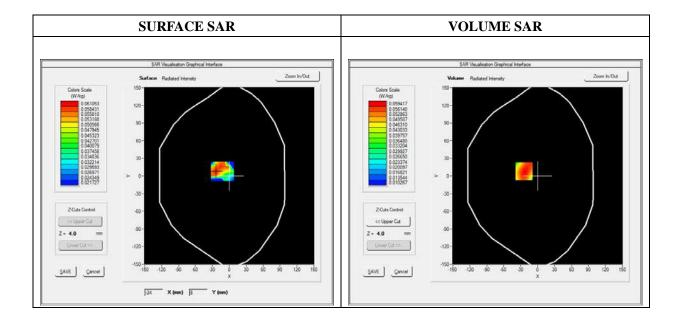
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Bottom		
Band	GPRS850_4TX		
Channels	Low		
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)		

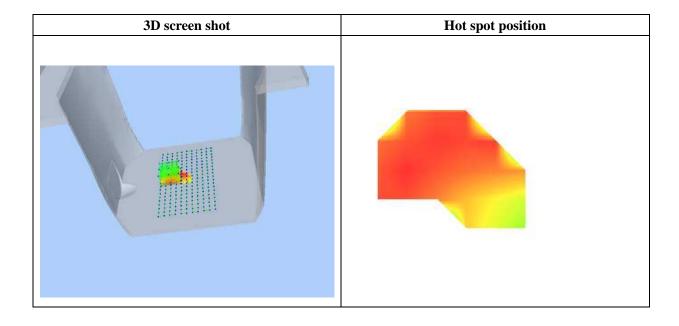
Frequency (MHz)	826.400000		
Relative Permittivity (real part)	52.124510		
Conductivity (S/m)	0.96000		
Power Variation (%)	0.80000		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-24.00, Y=8.00

SAR 10g (W/Kg)	0.039510		
SAR 1g (W/Kg)	0.057859		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0610	0.0385	0.0254	0.0152
	0.06-				
	0.05	$\overline{}$			
	B				
	8 0.04 - S 0.03 - S 0				
	₩ 0.03-				
	0.02-	+	+		
	0.01				
	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: 07/14/2014

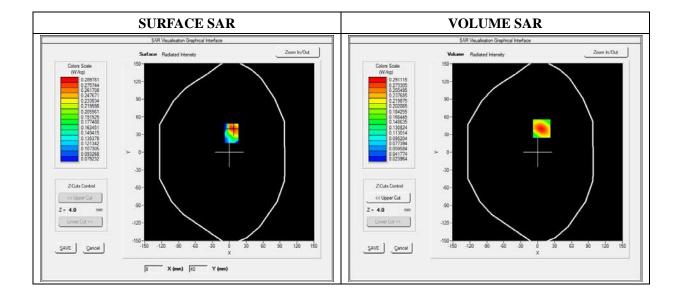
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat plane	
Device Position	Right side	
Band	GPRS850_4TX	
Channels	Middle	
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)	

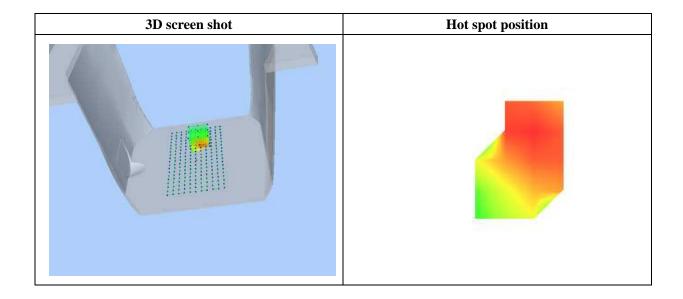
Frequency (MHz)	836.600000
Relative Permittivity (real part)	52.124510
Conductivity (S/m)	0.96000
Power Variation (%)	0.80000
Ambient Temperature	21.1
Liquid Temperature	21.3



 $Maximum\ location:\ X=7.00,\ Y=40.00$

SAR 10g (W/Kg)	0.056186
SAR 1g (W/Kg)	0.072273

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0744	0.0617	0.0505	0.0407
SAK (W/Kg)	0.074 - 0.070 - 0.065 - 0.060 - 0.055 - 0.055 - 0.045 - 0.040 -	0.0744	0.0017	0.0303	0.0407
	0.032 - 0.0 2.9	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: 07/14/2014

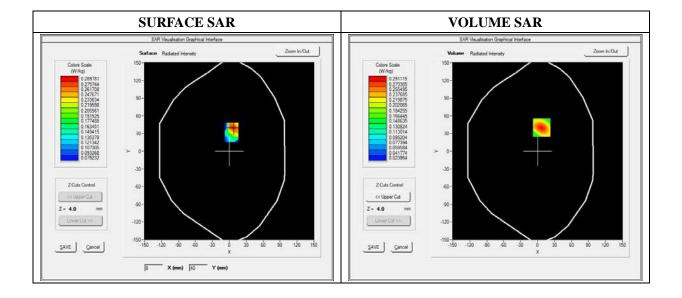
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat plane	
Device Position	Left side	
Band	GPRS850_4TX	
Channels	Middle	
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)	

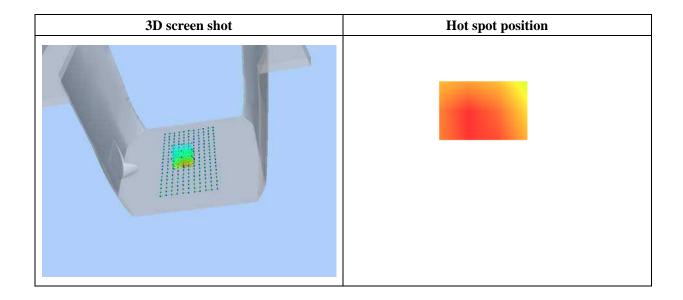
Frequency (MHz)	836.600000
Relative Permittivity (real part)	52.124510
Conductivity (S/m)	0.96000
Power Variation (%)	0.80000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-10.00, Y=10.00

SAR 10g (W/Kg)	0.040672	
SAR 1g (W/Kg)	0.076546	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0827	0.0435	0.0229	0.0127
	0.08-				
	0.07-				
	0.06-				
	₹ 0.05				
	0.05- W/W) 9.04-				
	0.03				
	0.02				
	0.01				
	0.0 2.5		12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

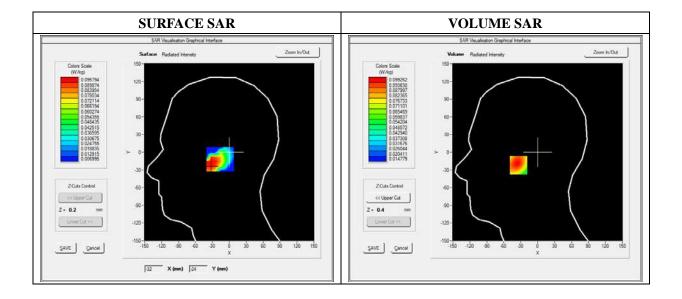
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Cheek	
Band	GSM1900	
Channels	Low	
Signal	TDMA (Crest factor: 8.0)	

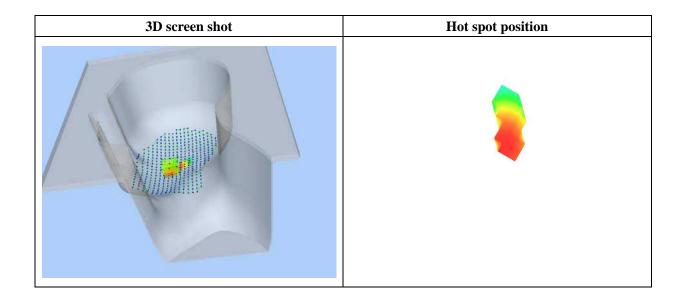
Frequency (MHz)	1850.200000
Relative Permittivity (real part)	38.912360
Conductivity (S/m)	1.410000
Power Variation (%)	-0.523000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-32.00, Y=-22.00

SAR 10g (W/Kg)	0.071398	
SAR 1g (W/Kg)	0.095669	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0981	0.0800	0.0640	0.0499
	0.10-				
	0.09-	\rightarrow			
	0.08-				
	_ U.00				
	0.08 - WK (WKB)				
	₹ 0.06-		+		
	0.05-		\rightarrow		
	0.04	50 7F 100	125 150 175	20.0 22.5 25.0	
	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: 07/14/2014

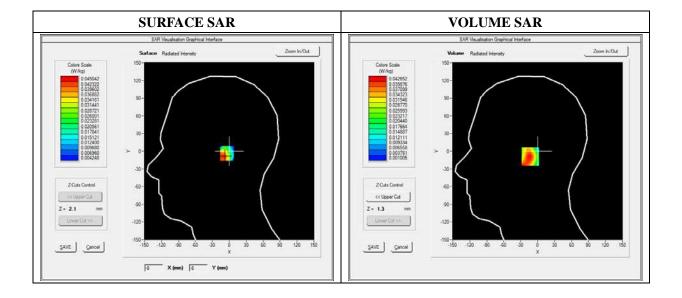
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Tilt	
Band	GSM1900	
Channels	Low	
Signal	TDMA (Crest factor: 8.0)	

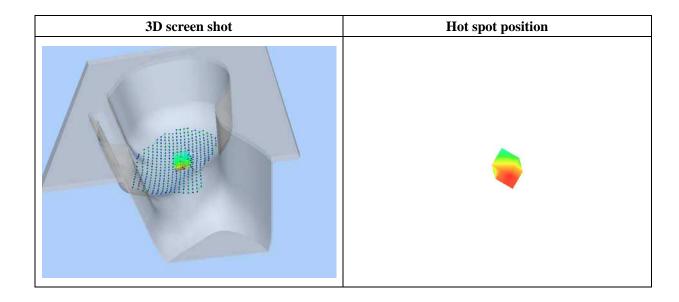
Frequency (MHz)	1850.200000	
Relative Permittivity (real part)	38.912360	
Conductivity (S/m)	1.410000	
Power Variation (%)	-0.523000	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-10.00, Y=-9.00

SAR 10g (W/Kg)	0.022239	
SAR 1g (W/Kg)	0.039227	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0427	0.0238	0.0132	0.0075
	0.043-				
	0.035- 0.030- 0.025- W 0.020- W 0.015-				
	0.010 - 0.004 - 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: 07/14/2014

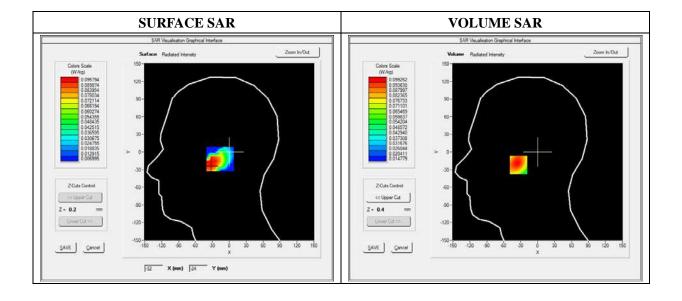
Measurement duration: 11 minutes 48 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Left head	
Device Position	Cheek	
Band	GSM1900	
Channels	Low	
Signal	TDMA (Crest factor: 8.0)	

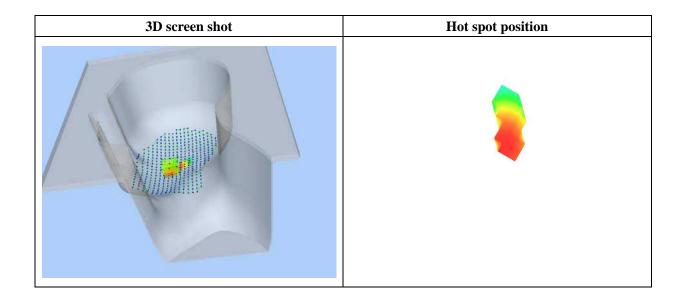
Frequency (MHz)	1850.200000	
Relative Permittivity (real part)	38.912360	
Conductivity (S/m)	1.410000	
Power Variation (%)	-0.523000	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-32.00, Y=-22.00

SAR 10g (W/Kg)	0.066541	
SAR 1g (W/Kg)	0.089652	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0904	0.0789	0.0601	0.0445
	0.10-				
	0.09	\rightarrow			
	_ 0.08-				
	₹ 0.07-		+		
	0.08- 0.07- W 0.06-		+		
	0.05				
	0.04	\rightarrow			
	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: 07/14/2014

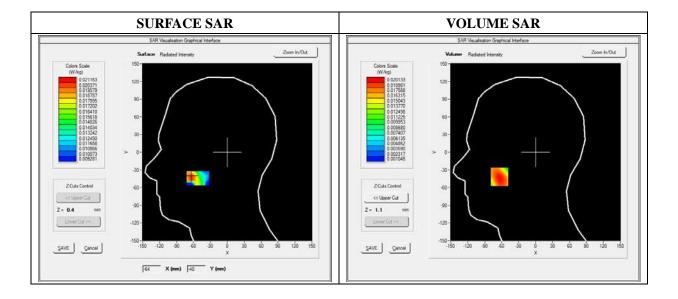
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Left head	
Device Position	Tilt	
Band	GSM1900	
Channels	Low	
Signal	TDMA (Crest factor: 8.0)	

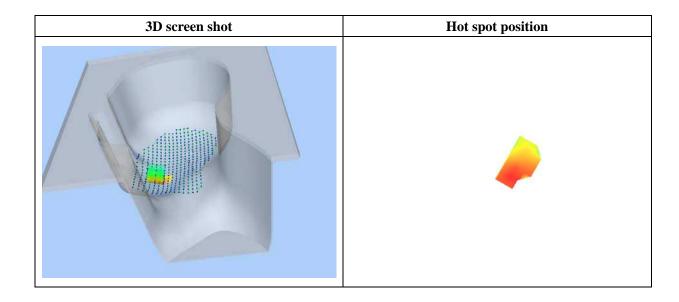
Frequency (MHz)	1850.200000
Relative Permittivity (real part)	38.912360
Conductivity (S/m)	1.410000
Power Variation (%)	-0.523000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-64.00, Y=-42.00

SAR 10g (W/Kg)	0.011596	
SAR 1g (W/Kg)	0.019145	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0201	0.0121	0.0073	0.0045
	0.0201-				
	0.0175-	\longrightarrow	\perp		
	0.0150-		\perp		
	B 0.0125-				
	% O.0100 -				
	0.0075-				
	0.0050-				
	0.0027-				
	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: 07/14/2014

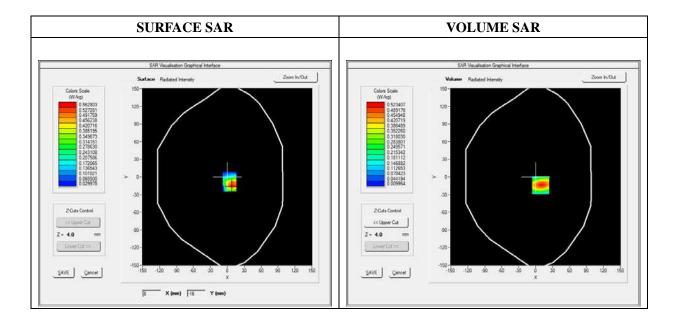
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Back(Body-worn)	
Band	GSM1900	
Channels	Low	
Signal	TDMA (Crest factor: 8.0)	

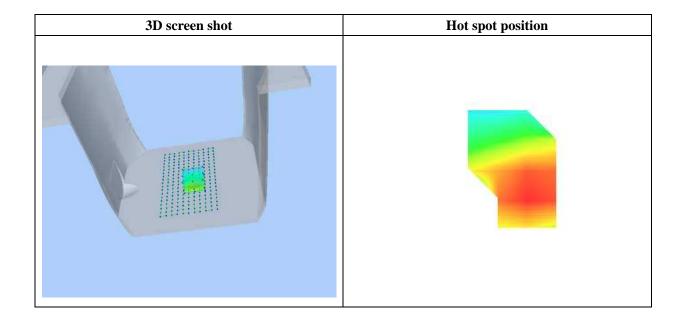
Frequency (MHz)	1850.200000		
Relative Permittivity (real part)	52.394440		
Conductivity (S/m)	1.491240		
Power Variation (%)	0.768521		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=9.00, Y=-14.00

SAR 10g (W/Kg)	0.293144	
SAR 1g (W/Kg)	0.574726	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5234	0.2911	0.1549	0.0784
	0.5-				
	0.4-	+ $+$ $+$			
	<u>\$</u>				
	₹ 0.3-	+			
	W 0.3-				
	0.1-	 			
	0.0-				
	0.0 2.5		12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

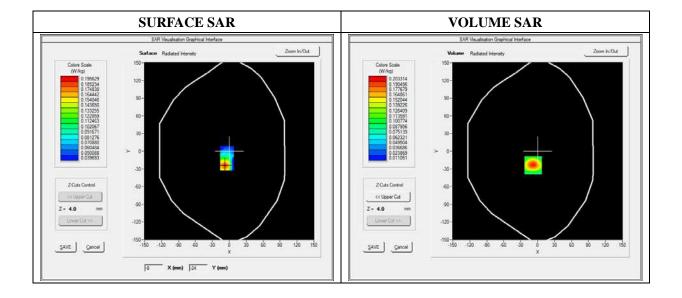
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Front(Body-worn)	
Band	GSM1900	
Channels	Low	
Signal	TDMA (Crest factor: 8.0)	

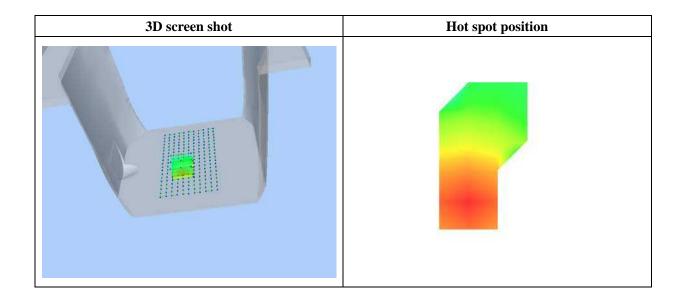
Frequency (MHz)	1850.200000		
Relative Permittivity (real part)	52.394440		
Conductivity (S/m)	1.491240		
Power Variation (%)	0.768521		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-8.00, Y=-24.00

SAR 10g (W/Kg)	0.106164	
SAR 1g (W/Kg)	0.185920	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2033	0.1278	0.0804	0.0513
	0.203-				
	0.175-	\rightarrow			
	0.150- 0.125- 9 0.100-				
	0.075 -				
	0.032 - 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: 07/14/2014

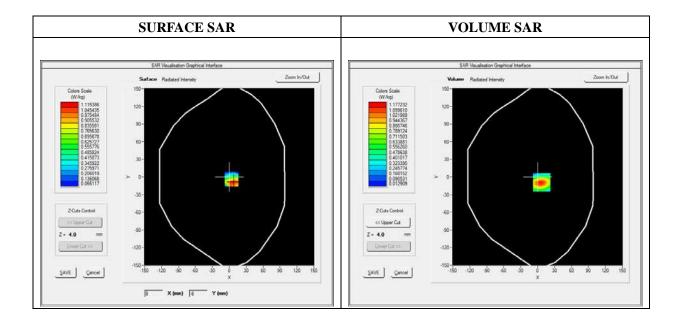
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Back		
Band	GPRS1900_4TX		
Channels	High		
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)		

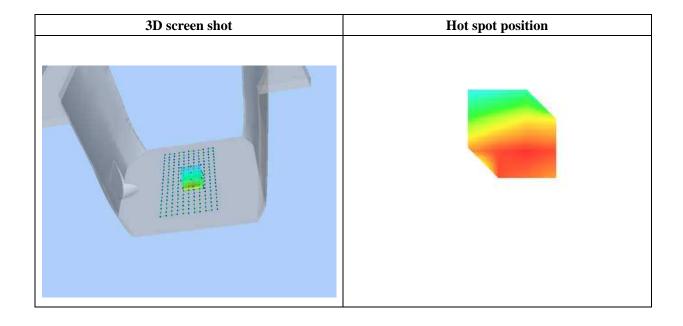
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	51.361240
Conductivity (S/m)	1.510000
Power Variation (%)	0.752100
Ambient Temperature	21.1
Liquid Temperature	21.3



 $Maximum\ location:\ X{=}7.00,\ Y{=}{-}9.00$

SAR 10g (W/Kg)	0.507854	
SAR 1g (W/Kg)	1.074490	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	1.1772	0.5531	0.2555	0.1264
	1.2-				
	1.0-				
	₩ 0.8-	+			
	≥ 0.6-	++++			
	-8.0 WKg				
	0.4-				
	0.2-	+		_	
	0.1-	50 75 100	105 150 175	20.0 22.5 25.0	
	0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	
			2 (mm)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

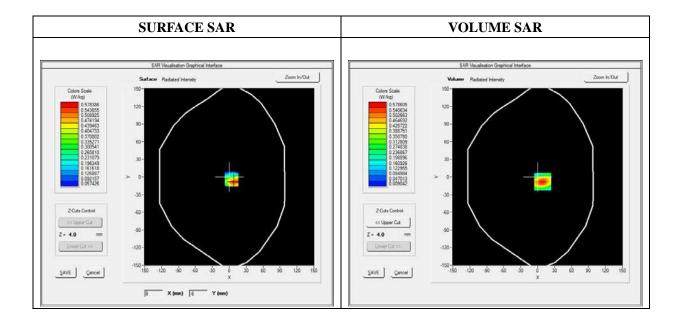
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Back		
Band	GPRS1900_4TX		
Channels	Low		
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)		

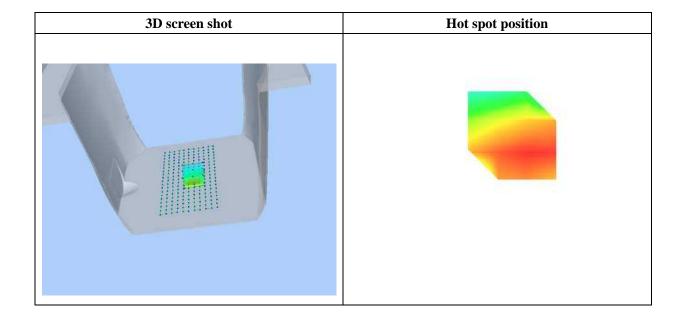
Frequency (MHz)	1850.20000		
Relative Permittivity (real part)	51.361240		
Conductivity (S/m)	1.510000		
Power Variation (%)	0.752100		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



 $Maximum\ location:\ X=9.00,\ Y=-8.00$

SAR 10g (W/Kg)	0.255721
SAR 1g (W/Kg)	0.524553

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5786	0.2887	0.1409	0.0708
	0.6-				
	0.5-	\rightarrow			
	₩ 0.4				
	0.4- 0.3- 0.3-	++			
	SAF				
	0.2-				
	0.1-				
	0.0	F0 7F 100	125 150 175	20.0 22.5 25.0	
	0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.3 25.0	
			_ (iiii)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

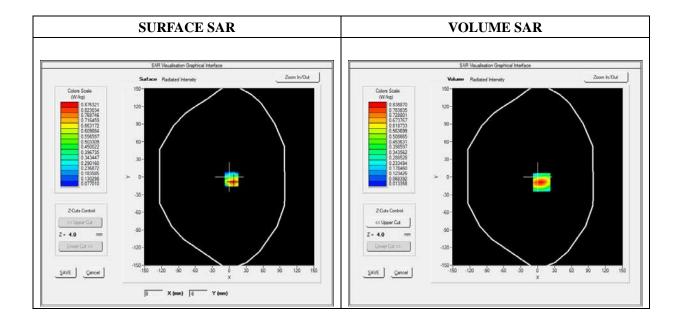
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Back		
Band	GPRS1900_4TX		
Channels	Middle		
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)		

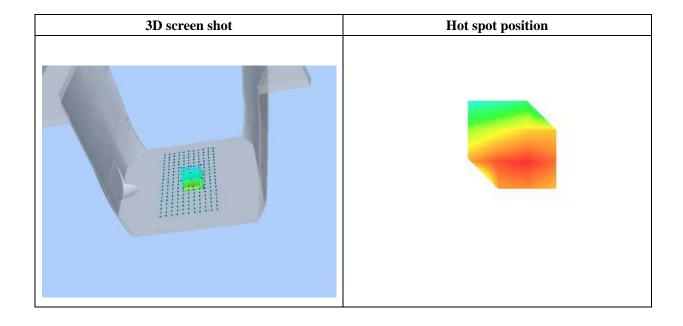
Frequency (MHz)	1880.000000		
Relative Permittivity (real part)	51.361240		
Conductivity (S/m)	1.510000		
Power Variation (%)	0.752100		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



 $Maximum\ location:\ X{=}7.00,\ Y{=}{-}9.00$

SAR 10g (W/Kg)	0.368080	
SAR 1g (W/Kg)	0.765934	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.8389	0.3999	0.1888	0.0961
	0.8-				
	0.7				
	0.7-				
	0.6-				
	§ 0.5				
	0.6- W) 0.5- H 0.4- S 0.3-				
	0.2-				
	0.2				
	0.0	F0 75 100	125 150 175	20.0 22.5 25.0	
	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: 07/14/2014

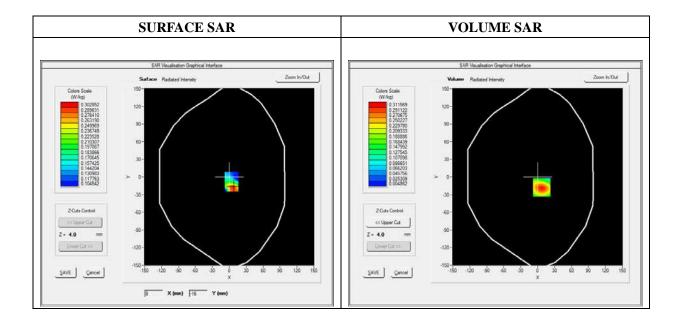
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat plane		
Device Position	Front		
Band	GPRS1900_4TX		
Channels	High		
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)		

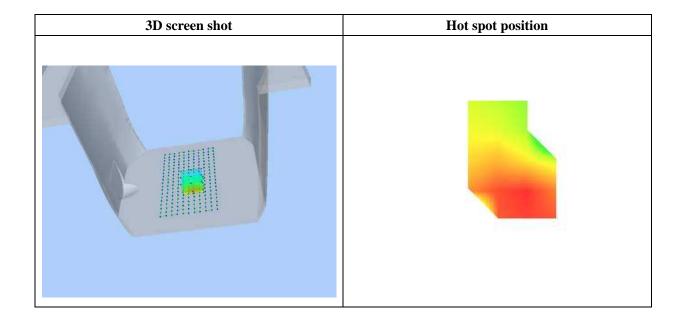
Frequency (MHz)	1909.800000		
Relative Permittivity (real part)	51.361240		
Conductivity (S/m)	1.510000		
Power Variation (%)	0.752100		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=7.00, Y=-18.00

SAR 10g (W/Kg)	0.146393		
SAR 1g (W/Kg)	0.289537		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3116	0.1476	0.0691	0.0348
	0.31- 0.25- 0.20- WW 0.15- 0.10-				
	0.05- 0.02- 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: 07/14/2014

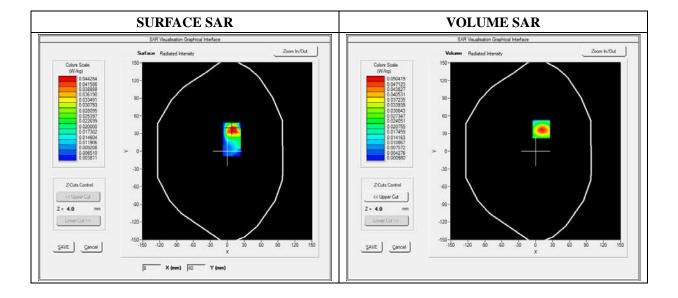
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat plane	
Device Position	Bottom	
Band	GPRS1900_4TX	
Channels	High	
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)	

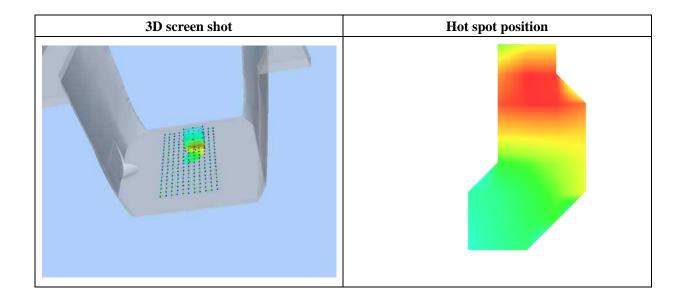
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	51.361240
Conductivity (S/m)	1.510000
Power Variation (%)	0.752100
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-35.00, Y=-17.00

SAR 10g (W/Kg)	0.127772	
SAR 1g (W/Kg)	0.175245	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1828	0.1360	0.1058	0.0867
S (1112g)	0.18 - 0.16 - 0.16 - 0.14 - 0.12 - 0.10 - 0.10 - 0.07 - 0.				
	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: 07/14/2014

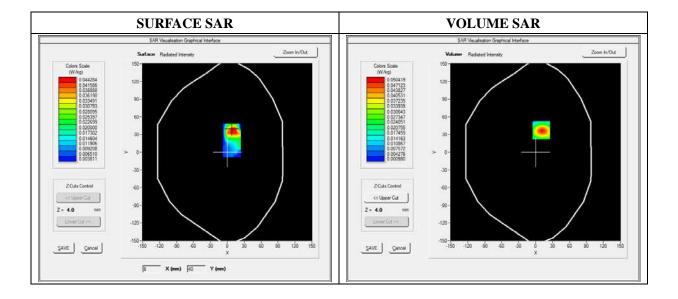
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat plane	
Device Position	Right side	
Band	GPRS1900_4TX	
Channels	High	
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)	

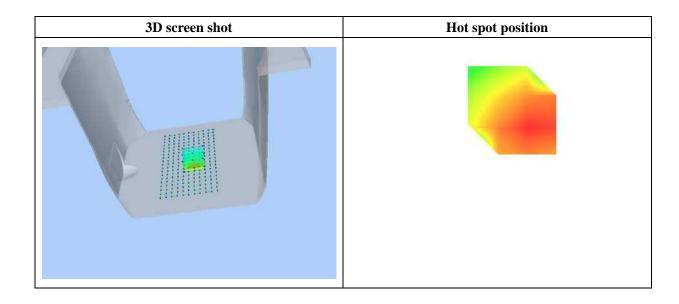
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	51.361240
Conductivity (S/m)	1.510000
Power Variation (%)	0.752100
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-50.00, Y=-53.00

SAR 10g (W/Kg)	0.019811	
SAR 1g (W/Kg)	0.036541	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0388	0.0202	0.0103	0.0054
. (0.039 - 0.035 - 0.030 - 0.025 - 0.020 - 0.015 - 0.010 - 0.003 - 0.0 2.				
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

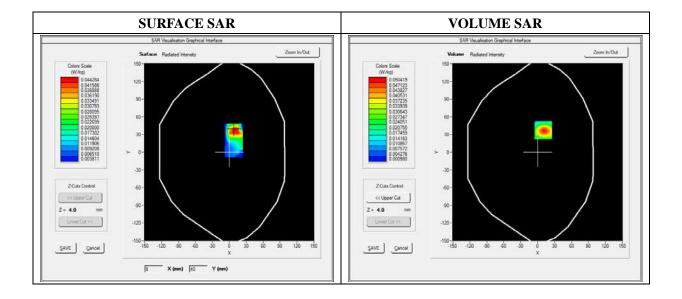
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat plane	
Device Position	Left side	
Band	GPRS1900_4TX	
Channels	High	
Signal	Duty Cycle: 3.00 (Crest factor: 3.00)	

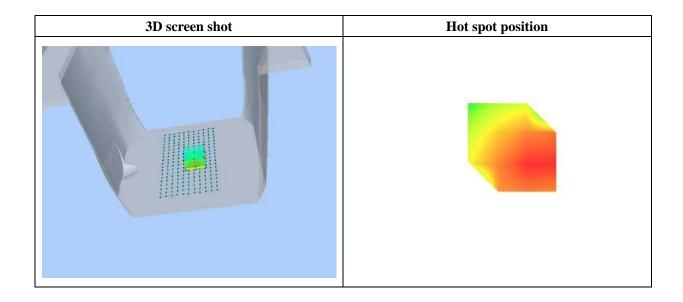
Frequency (MHz)	1909.800000	
Relative Permittivity (real part)	51.361240	
Conductivity (S/m)	1.510000	
Power Variation (%)	0.752100	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



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

SAR 10g (W/Kg)	0.040029	
SAR 1g (W/Kg)	0.072854	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0782	0.0423	0.0230	0.0131
	0.08 - 0.07 - 0.06 - 0.05 - 0.04 - 0.03 - 0.02 - 0.01 - 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: 07/14/2014

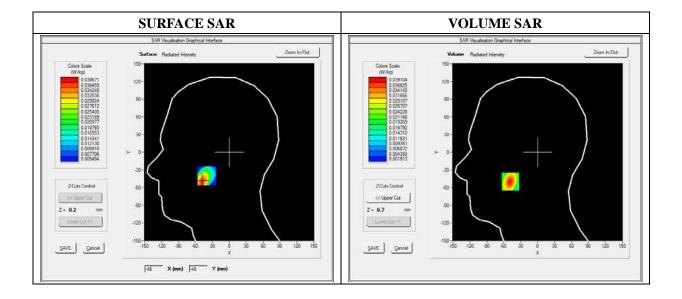
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Cheek	
Band	WCDMA850_RMC	
Channels	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.0)	

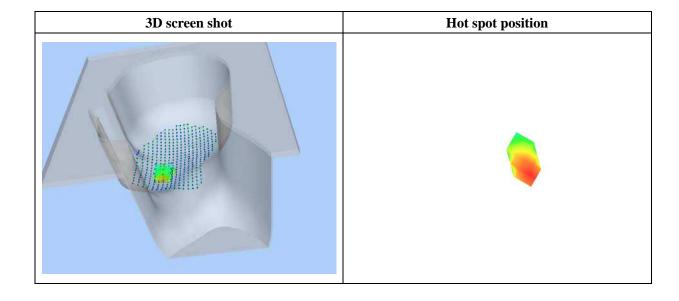
Frequency (MHz)	836.400000
Relative Permittivity (real part)	40.0200000
Conductivity (S/m)	0.910000
Power Variation (%)	1.810000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-48.00, Y=-50.00

SAR 10g (W/Kg)	0.021401	
SAR 1g (W/Kg)	0.035973	

0.00	4.00	9.00	14.00	19.00
0.0000	0.0391	0.0260	0.0171	0.0111
0.039-				
0.035-	\longrightarrow			
0.030-				
¥ 0.035				
§ 0.025				
₹ 0.020 -				
0.015-		+		
0.010-		$\overline{}$		
0.007-	5 50 75 10	125 150 175	20.0 22.5 25.0	
0.0 2.	3 3.0 7.3 10.1	Z (mm)	20.0 22.3 23.0	
	0.0000 0.039 - 0.035 - 0.030 - 0.025 - 0.020 - 0.015 - 0.010 - 0.007 -	0.0000 0.0391 0.039 - 0.035 - 0.030 - 0.025 - 0.020 - 0.015 - 0.010 - 0.007 -	0.0000 0.0391 0.0260 0.039 0.035 0.030 0.025 0.020 0.015 0.010 0.007 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5	0.0000 0.0391 0.0260 0.0171 0.039- 0.035- 0.030- 0.0020- 0.015- 0.010- 0.007- 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

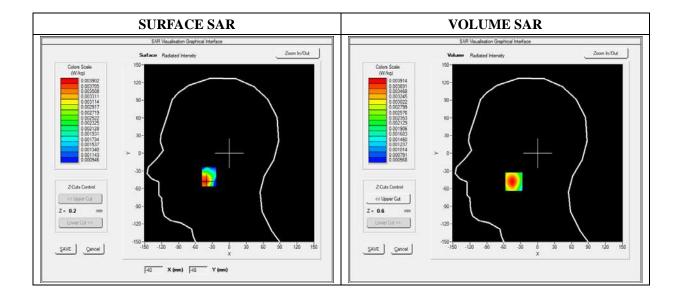
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Tilt	
Band	WCDMA850_ RMC	
Channels	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.0)	

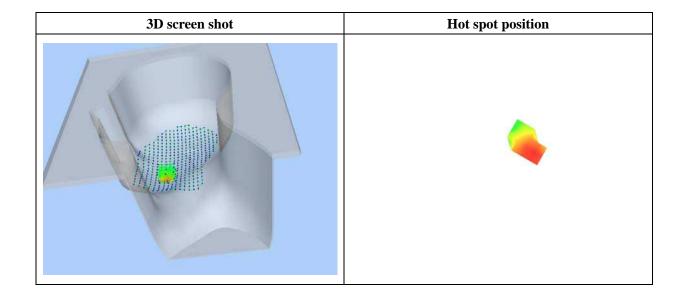
Frequency (MHz)	836.400000
Relative Permittivity (real part)	40.0200000
Conductivity (S/m)	0.910000
Power Variation (%)	1.810000
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.002265	
SAR 1g (W/Kg)	0.003704	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0039	0.0025	0.0017	0.0011
	0.0039-				
	0.0035-	\longrightarrow			
	0.0030 -	\rightarrow			
	§ 0.0025-	-			
	8 0.0025		\longrightarrow		
	0.0015-				
	0.0008 -	5 5.0 7.5 10.0	0 12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

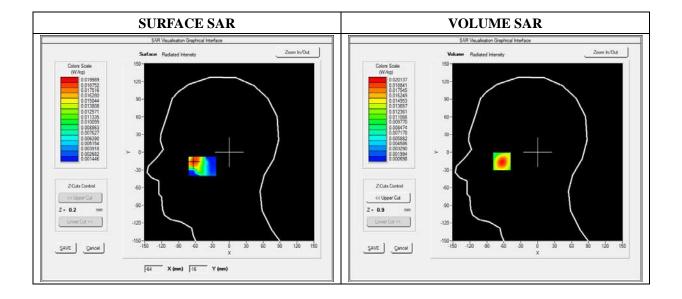
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Left head	
Device Position	Cheek	
Band	WCDMA850_RMC	
Channels	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.0)	

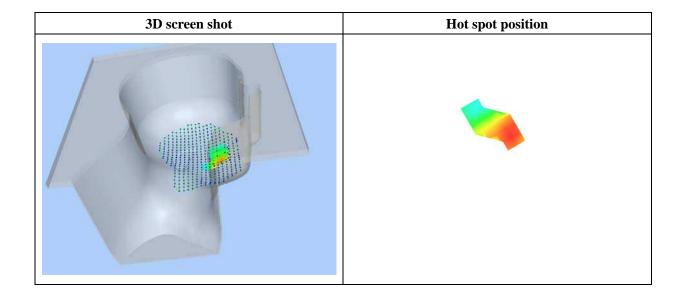
Frequency (MHz)	836.400000
Relative Permittivity (real part)	40.0200000
Conductivity (S/m)	0.910000
Power Variation (%)	1.810000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-63.00, Y=-15.00

SAR 10g (W/Kg)	0.011244	
SAR 1g (W/Kg)	0.018685	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0201	0.0132	0.0086	0.0055
	0.020- 0.018- 0.016- 0.014- 0.012- 0.010- 0.008- 0.006- 0.003- 0.00 2.0				



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

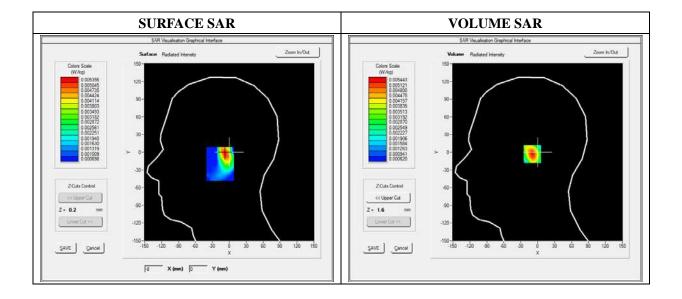
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.25; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Left head	
Device Position	Tilt	
Band	WCDMA850_RMC	
Channels	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.0)	

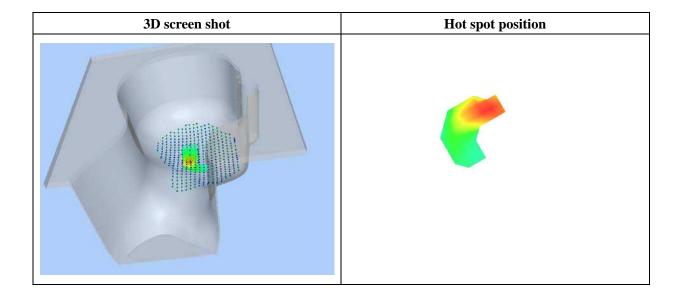
Frequency (MHz)	836.400000
Relative Permittivity (real part)	40.0200000
Conductivity (S/m)	0.910000
Power Variation (%)	1.810000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-7.00, Y=-3.00

SAR 10g (W/Kg)	0.002788	
SAR 1g (W/Kg)	0.005003	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0054	0.0031	0.0018	0.0011
	0.005 - 0.005 -	$\overline{}$			
	<u></u> 0.004 -	+			
	0.004 0.003	++			
	0.002				
	0.001 - 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: 07/14/2014

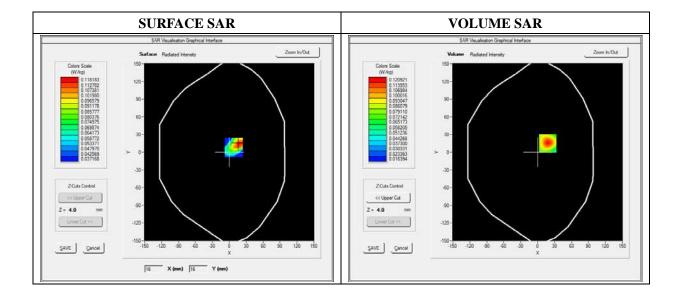
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Back	
Band	WCDMA850_RMC	
Channels	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

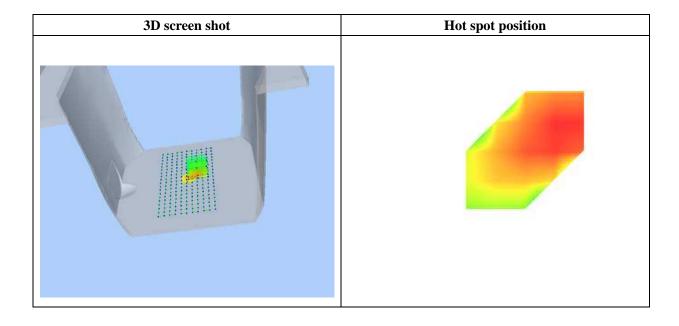
Frequency (MHz)	836.400000
Relative Permittivity (real part)	52.124510
Conductivity (S/m)	0.96000
Power Variation (%)	0.80000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=18.00, Y=15.00

SAR 10g (W/Kg)	0.069654	
SAR 1g (W/Kg)	0.112564	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1209	0.0791	0.0526	0.0360
Z.Z.Z. (WZZg)	0.12- 0.10- 8 0.08- 5 0.06- 0.04- 0.02- 0.0 2.5		12.5 15.0 17.5		
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

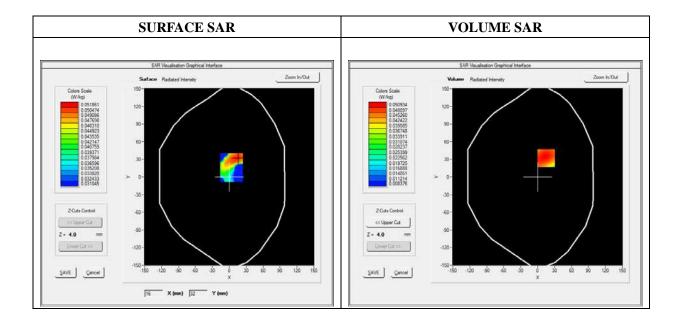
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Front	
Band	WCDMA850_RMC	
Channels	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

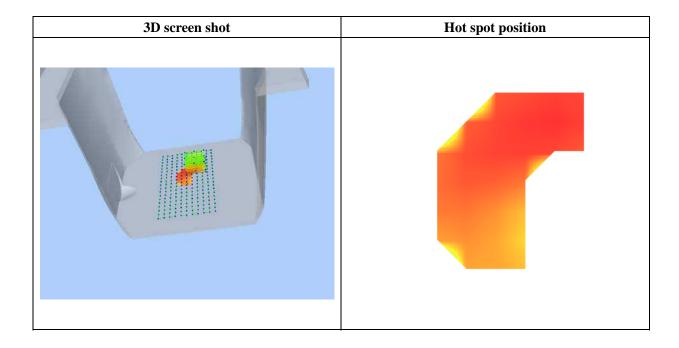
Frequency (MHz)	836.400000	
Relative Permittivity (real part)	52.124510	
Conductivity (S/m)	0.96000	
Power Variation (%)	0.80000	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=15.00, Y=32.00

SAR 10g (W/Kg)	0.036945	
SAR 1g (W/Kg)	0.049353	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0508	0.0394	0.0302	0.0227
	0.051-				
	0.045	\rightarrow			
	_ 0.040-	$+\lambda$			
	0.040- 8 0.035- 8 0.030-	\rightarrow			
	₩ 0.030-				
	0.025		++		
	0.020 -				
	0.0 2.9	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: 07/14/2014

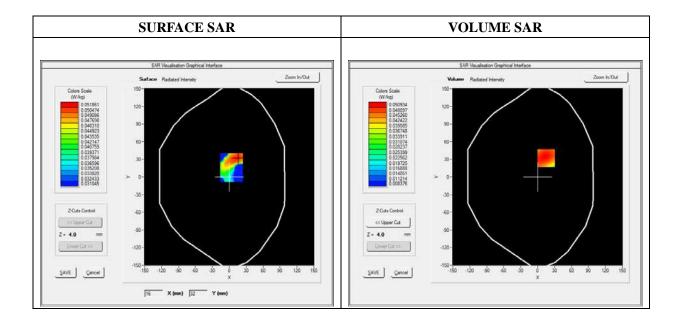
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Bottom		
Band	WCDMA850_RMC		
Channels	Middle		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

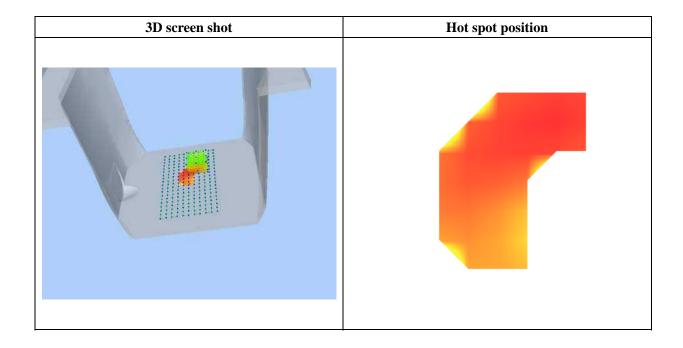
Frequency (MHz)	836.400000
Relative Permittivity (real part)	52.124510
Conductivity (S/m)	0.96000
Power Variation (%)	0.80000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=15.00, Y=32.00

SAR 10g (W/Kg)	0.024784	
SAR 1g (W/Kg)	0.035411	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0485	0.0325	0.0289	0.0212
	0.051-				
	0.045	\rightarrow			
	<u></u> 0.040 -	+ N			
	0.040- 0.035- W 0.030-		$\overline{}$		
	景 0.030-				
	0.025		++		
	0.020 -				
	0.0 2.9	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: 07/14/2014

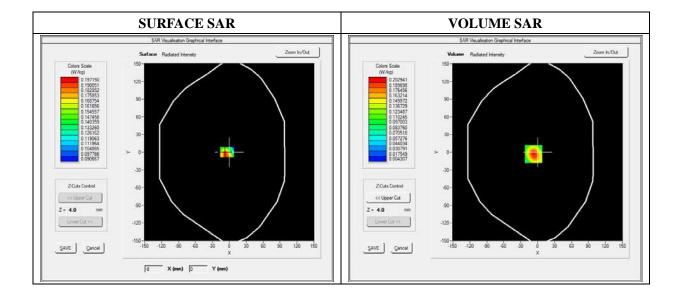
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Right side		
Band	WCDMA850_RMC		
Channels	High		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

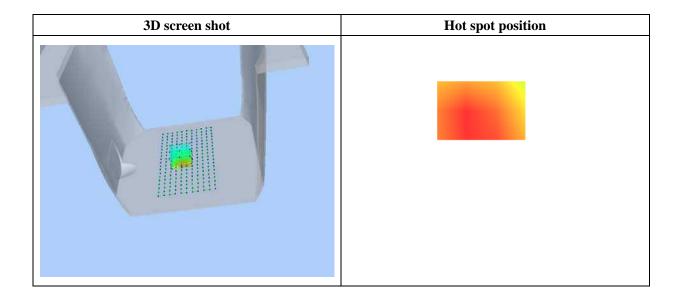
Frequency (MHz)	846.600000
Relative Permittivity (real part)	52.124510
Conductivity (S/m)	0.96000
Power Variation (%)	0.80000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-7.00, Y=-3.00

SAR 10g (W/Kg)	0.024951	
SAR 1g (W/Kg)	0.037580	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0495	0.0375	0.0299	0.0232
	0.051-	\			
	0.045-	\longrightarrow			
	0.040-	\rightarrow			
	₹ 0.035 -	$\overline{}$	\longrightarrow		
	0.040 - 0.035 - 0.030		\longrightarrow		
	0.025		++	. 	
	0.020 - 0.016 -				
	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: 07/14/2014

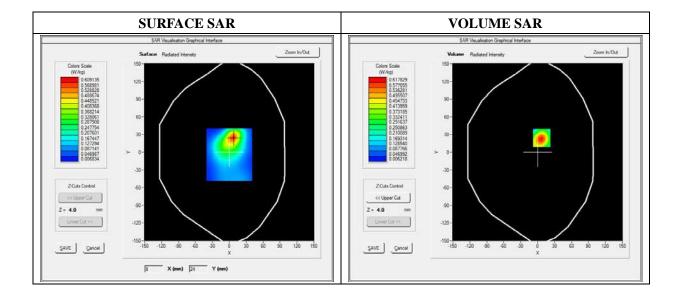
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Left side		
Band	WCDMA850_RMC		
Channels	High		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

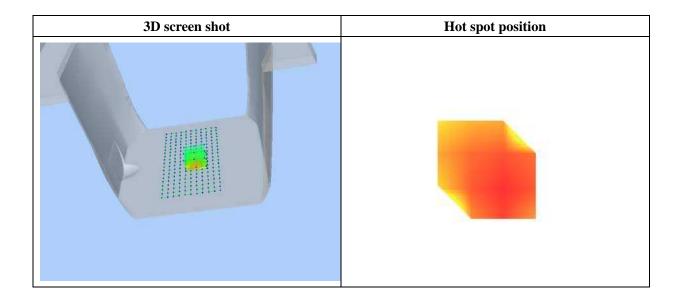
Frequency (MHz)	846.600000
Relative Permittivity (real part)	52.124510
Conductivity (S/m)	0.96000
Power Variation (%)	0.80000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-56.00, Y=-32.00

SAR 10g (W/Kg)	0.026541	
SAR 1g (W/Kg)	0.040120	

0.00	4.00	9.00	14.00	19.00
0.0000	0.0500	0.0384	0.0310	0.0242
0.051-				
0.045-	\rightarrow			
	\rightarrow			
₹ 0.035-	\rightarrow	+		
¥ 0.030-		$\rightarrow \downarrow \downarrow$		
0.025		+		
0.020-		+++		
0.016-	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
0.0 2.0	7.0 7.0	Z (mm)	25.5 22.5 20.0	
	0.0000 0.051 - 0.045 - 0.040 - 0.035 - 0.035 - 0.025 - 0.020 - 0.016 -	0.0000 0.0500 0.051- 0.045- 0.040- 0.035- 0.030- 0.025- 0.020- 0.016-	0.0000 0.0500 0.0384 0.051 0.045 0.045 0.035 0.035 0.025 0.020 0.016 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5	0.0000 0.0500 0.0384 0.0310 0.051 0.045 0.045 0.035 0.035 0.025 0.020 0.016 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

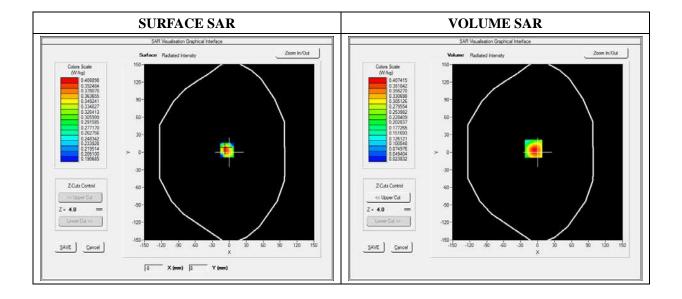
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Back(Body-worn)	
Band	WCDMA850_RMC	
Channels	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

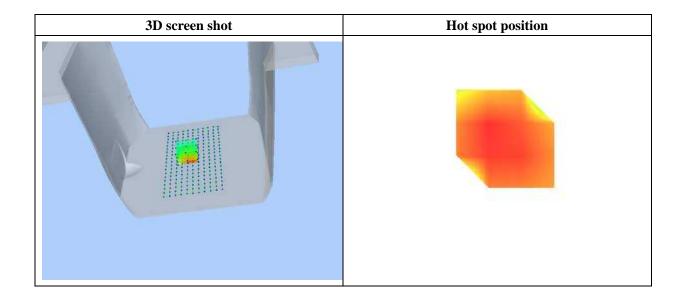
Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.492364
Conductivity (S/m)	0.963236
Power Variation (%)	0.926400
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=2.00, Y=-16.00

SAR 10g (W/Kg)	0.136156	
SAR 1g (W/Kg)	0.196825	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2019	0.1524	0.1125	0.0804
	0.20- 0.18- 0.16- 0.14- 0.12- 0.10- 0.08- 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: 07/14/2014

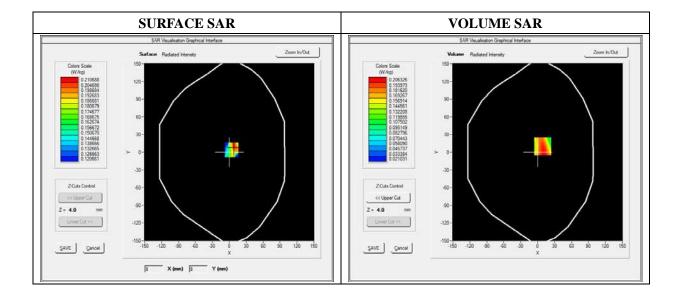
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Front(Body-worn)	
Band	WCDMA850_RMC	
Channels	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

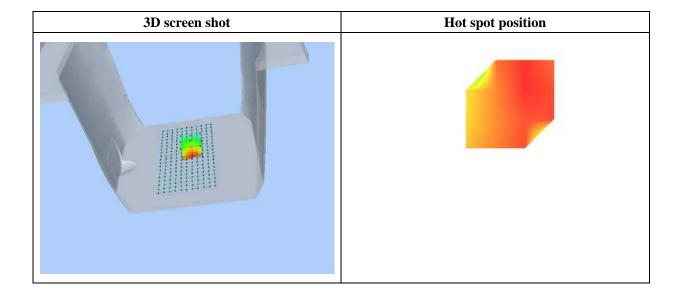
Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.492364
Conductivity (S/m)	0.963236
Power Variation (%)	0.926400
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=9.00, Y=10.00

SAR 10g (W/Kg)	0.045515	
SAR 1g (W/Kg)	0.098758	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0928	0.0446	0.0225	0.0120
	0.09- 0.08- 0.06- 0.04- 0.02- 0.01- 0.0 2.5	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

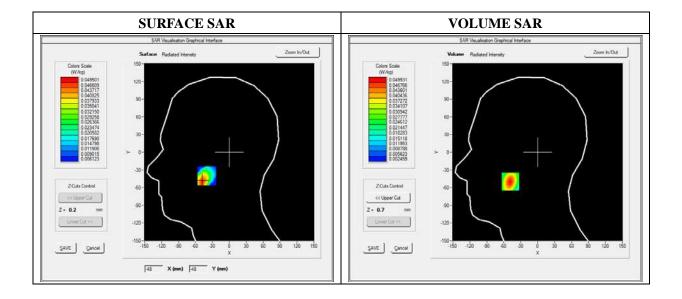
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Cheek	
Band	WCDMA1900_RMC	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.0)	

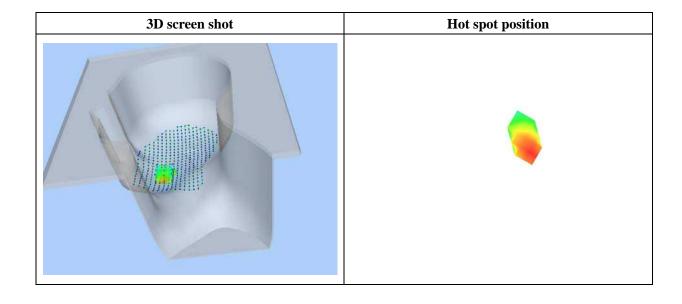
Frequency (MHz)	1852.400000
Relative Permittivity (real part)	38.912360
Conductivity (S/m)	1.410000
Power Variation (%)	-0.523000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-48.00, Y=-50.00

SAR 10g (W/Kg)	0.024562
SAR 1g (W/Kg)	0.045257

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0442	0.0329	0.02219	0.01128
	0.050-				
	0.045-	\longrightarrow			
	0.040 -	\rightarrow			
	፵ 0.035-	-			
	▼ 0.035- ▼ 0.030-	\rightarrow	+		
	₩ 0.025-		\rightarrow		
	0.020-		+		
	0.015-		\rightarrow		
	0.009		\rightarrow		
	0.0 2.	5 5.0 7.5 10.0	0 12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

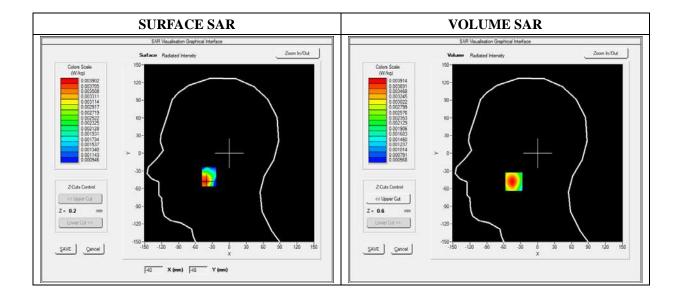
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Tilt		
Band	WCDMA1900_ RMC		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.0)		

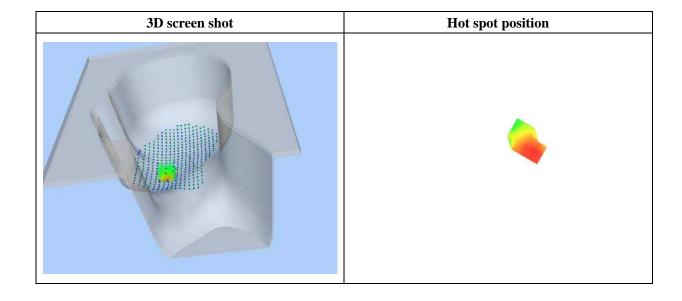
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	38.912360		
Conductivity (S/m)	1.410000		
Power Variation (%)	-0.523000		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



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

SAR 10g (W/Kg)	0.002125	
SAR 1g (W/Kg)	0.003795	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0049	0.0033	0.0025	0.0015
	0.0039-				
	0.0035-				
	0.0030-				
	0.0025-				
	₩ 0.0020 -	1			
	0.0015-				
	0.0008-	.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: 07/14/2014

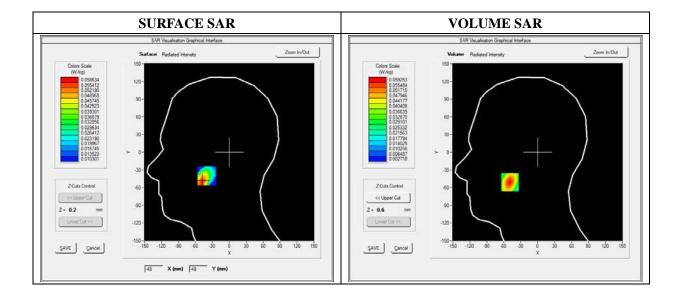
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Cheek		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.0)		

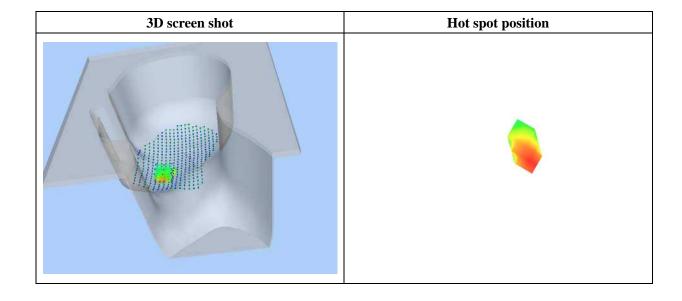
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	38.912360		
Conductivity (S/m)	1.410000		
Power Variation (%)	-0.523000		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-49.00, Y=-51.00

SAR 10g (W/Kg)	0.032569	
SAR 1g (W/Kg)	0.053369	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0589	0.0390	0.0260	0.0168
	0.06-				
	0.05	$\mathbf{N} + \mathbf{I}$			
	0.05				
	0.04- W 0.03-	\rightarrow			
	§				
	S 0.03				
	0.02-		+		
	0.01- 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: 07/14/2014

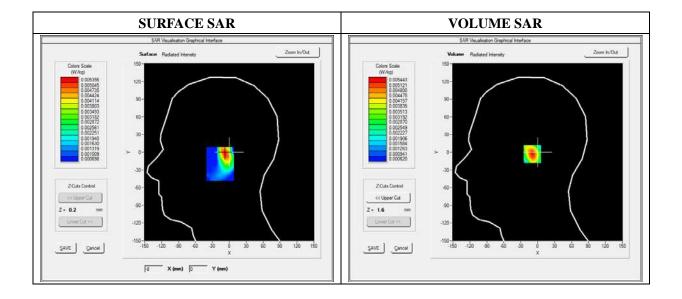
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.16; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Tilt		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.0)		

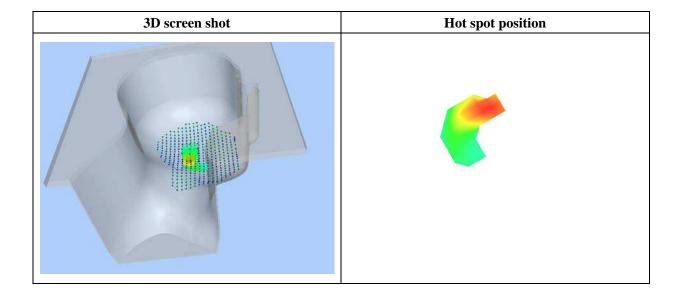
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	38.912360		
Conductivity (S/m)	1.410000		
Power Variation (%)	-0.523000		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-7.00, Y=-3.00

SAR 10g (W/Kg)	0.003026	
SAR 1g (W/Kg)	0.006109	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0067	0.0040	0.0024	0.0018
	0.005- 0.005- 0.004- 0.003- 0.002- 0.001- 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: 07/14/2014

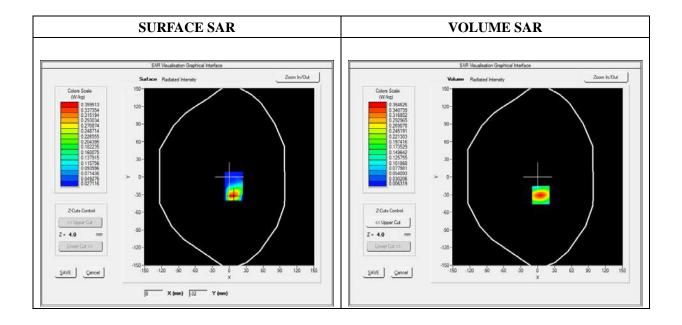
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Back	
Band	WCDMA1900_RMC	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

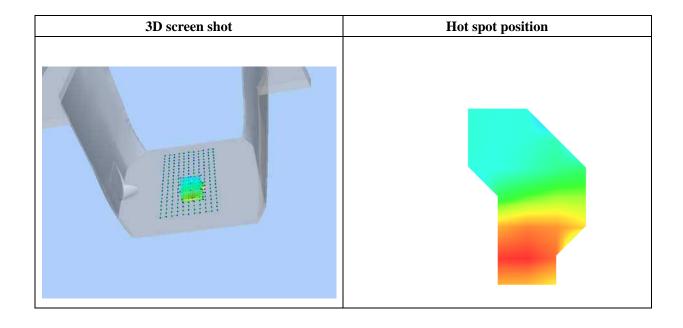
Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.394440
Conductivity (S/m)	1.491240
Power Variation (%)	0.768521
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=6.00, Y=-31.00

SAR 10g (W/Kg)	0.161322		
SAR 1g (W/Kg)	0.331330		

0.00	4.00	9.00	14.00	19.00
0.0000	0.3646	0.1796	0.0866	0.0434
0.36-				
0.00				
₩ 0.25				
≥ 0.20-		+ + +		
♂ 0.15-		+		
0.10-		\rightarrow		
0.05		+		
0.02-	5 50 75 100	125 150 175	20.0 22.5 25.0	
0.0 2.5			20.0 22.3 23.0	
	0.0000 0.36 - 0.30 - 0.25 - 0.25 - 0.10 - 0.05 - 0.02 -	0.0000 0.3646 0.36- 0.30- 0.25- 0.15- 0.10- 0.05- 0.02- 0.0 2.5 5.0 7.5 10.0	0.0000 0.3646 0.1796 0.36- 0.30- 0.25- 0.20- 0.10- 0.05- 0.02-	0.0000 0.3646 0.1796 0.0866 0.30- 0.25- 0.15- 0.10- 0.05- 0.02- 0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

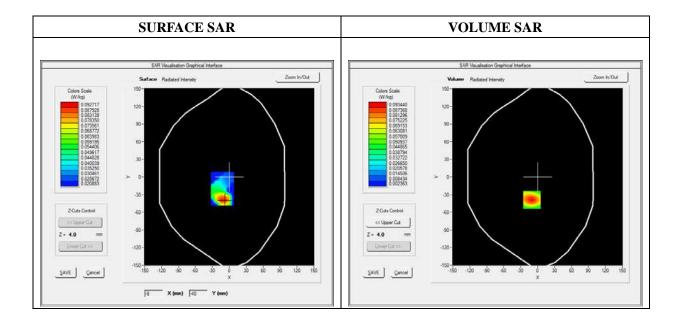
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Front	
Band	WCDMA1900_RMC	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

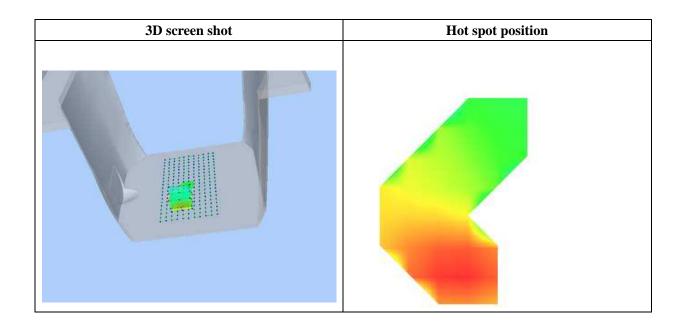
Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.394440
Conductivity (S/m)	1.491240
Power Variation (%)	0.768521
Ambient Temperature	21.1
Liquid Temperature	21.3



 $Maximum\ location:\ X \texttt{=-} 10.00,\ Y \texttt{=-} 39.00$

SAR 10g (W/Kg)	0.044951
SAR 1g (W/Kg)	0.086826

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0934	0.0469	0.0230	0.0115
	0.09-				
	0.08-				
	0.00				
	☑ 0.06-	+			
	2				
	- 90.0 B (W) W) - 80.0 B	+	. 		
	0.02-				
	0.01				
	0.0 2.5	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: 07/14/2014

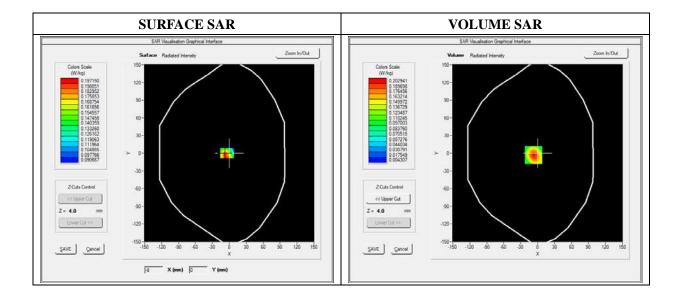
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Bottom	
Band	WCDMA1900_RMC	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

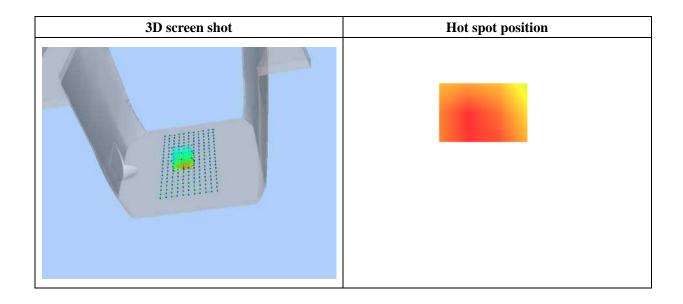
Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.394440
Conductivity (S/m)	1.491240
Power Variation (%)	0.768521
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-7.00, Y=-3.00

SAR 10g (W/Kg)	0.045241	
SAR 1g (W/Kg)	0.086981	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0964	0.0485	0.0243	0.0121
	0.09- 0.08- 0.06- WW 0.06- WY 0.04- 0.02- 0.01- 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: 07/14/2014

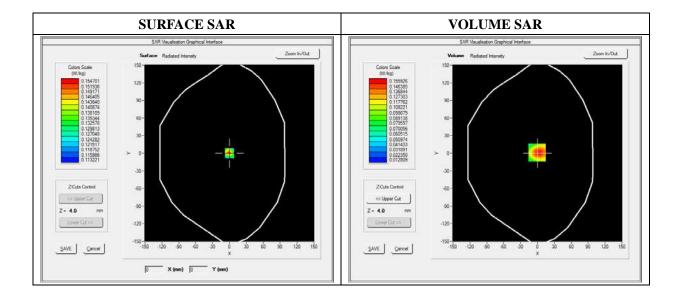
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

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: 1.00 (Crest factor: 1.00)		

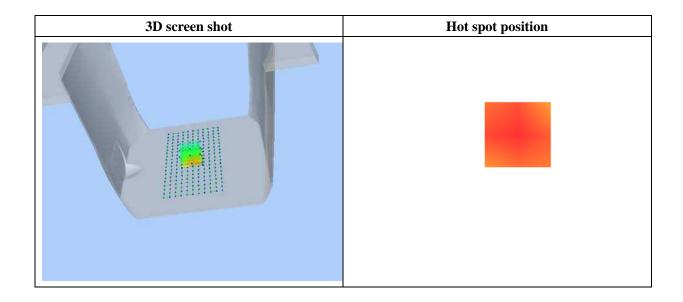
Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.394440
Conductivity (S/m)	1.491240
Power Variation (%)	0.768521
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=6.00, Y=2.00

SAR 10g (W/Kg)	0.035850	
SAR 1g (W/Kg)	0.084250	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0895	0.0440	0.0204	0.0111
	- 0.00 GB (WK GB) (WK	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: 07/14/2014

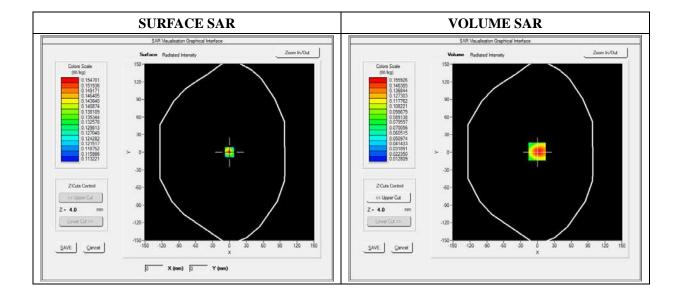
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

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: 1.00 (Crest factor: 1.00)		

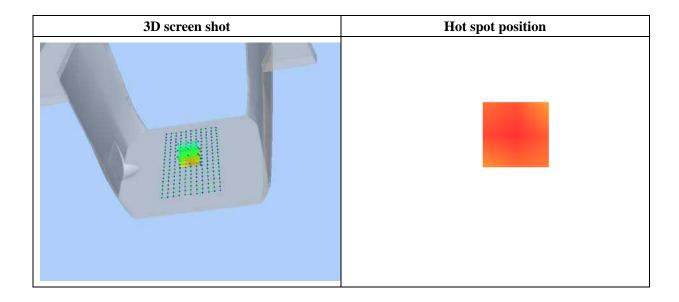
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	52.394440		
Conductivity (S/m)	1.491240		
Power Variation (%)	0.768521		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=6.00, Y=2.00

SAR 10g (W/Kg)	0.044000		
SAR 1g (W/Kg)	0.081240		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.08874	0.0414	0.0221	0.0101
	0.09- 0.08- 0.00- 0.04- 0.02- 0.01- 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: 07/14/2014

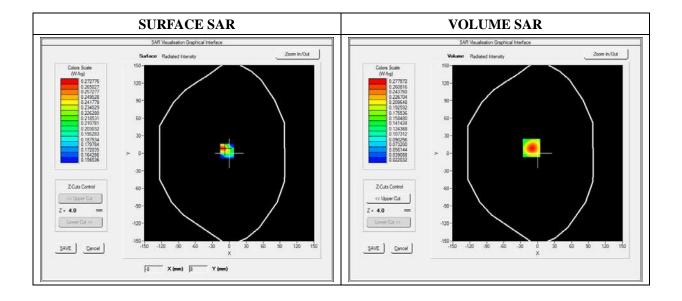
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Back(Body-worn)		
Band	WCDMA1900_RMC		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

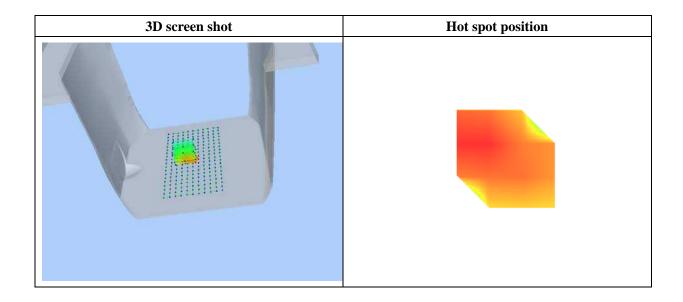
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	52.394440		
Conductivity (S/m)	1.491240		
Power Variation (%)	0.768521		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=16.00, Y=24.00

SAR 10g (W/Kg)	0.153271	
SAR 1g (W/Kg)	0.257619	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2778	0.1771	0.1125	0.1125
	0.28- 0.25- 0.25- 0.20- 0.15- 0.10- 0.04- 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: 07/14/2014

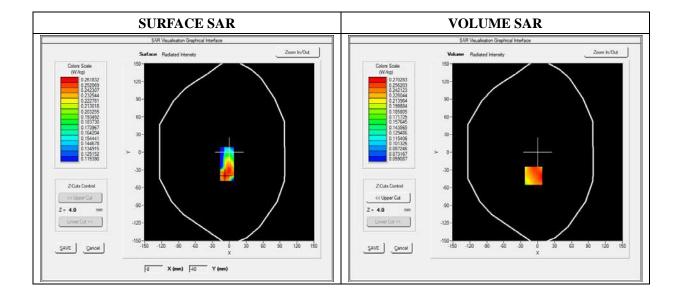
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Front(Body-worn)	
Band	WCDMA1900_RMC	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

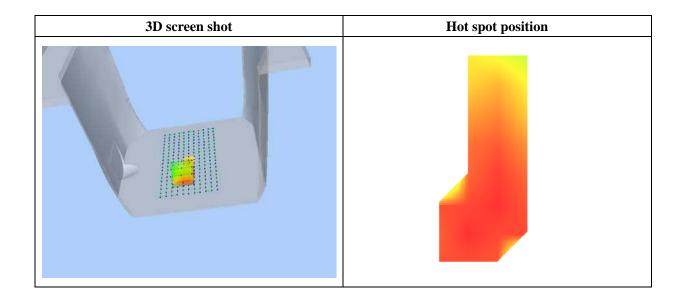
Frequency (MHz)	1852.400000		
Relative Permittivity (real part)	52.394440		
Conductivity (S/m)	1.491240		
Power Variation (%)	0.768521		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



 $Maximum\ location:\ X{=}\text{-}47.00,\ Y{=}\text{-}8.00$

SAR 10g (W/Kg)	0.091044	
SAR 1g (W/Kg)	0.118086	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1217	0.0964	0.0775	0.0634
	0.12-				
	0.11				
	0.11-				
	<u>_</u> 0.10 -				
	₹ 0.09-				
	0.10- W.W.B 0.09- 0.08-		$\overline{}$		
	0.07-	+			
	0.06-		+++		
	0.05-		105 150 175	20.0 20.5 25.0	
	0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	
			2 (IIIII)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

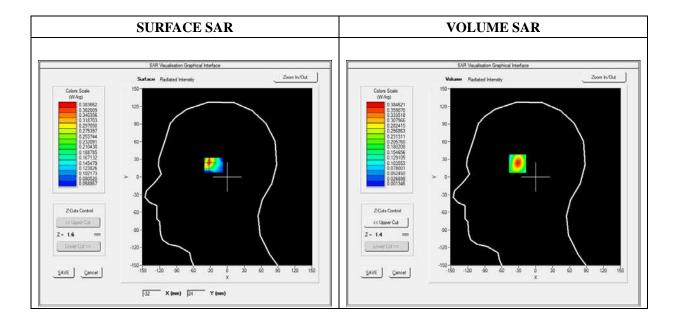
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 2013/03/21

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Cheek	
Band	WiFi_802.11b	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

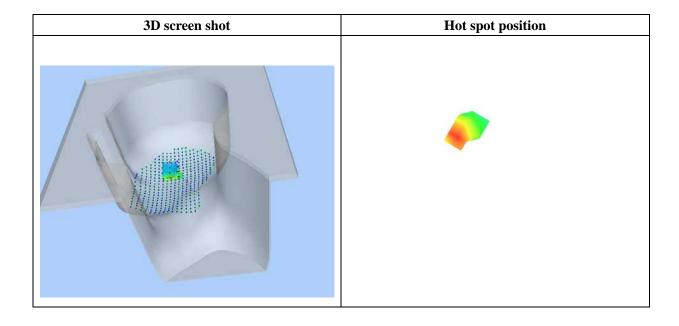
Frequency (MHz)	2412.000000		
Relative Permittivity (real part)	38.762140		
Conductivity (S/m)	1.781240		
Power Variation (%)	1.144120		
Ambient Temperature	21.1		
Liquid Temperature	21.2		



Maximum location: X=-32.00, Y=25.00

SAR 10g (W/Kg)	0.152389	
SAR 1g (W/Kg)	0.358269	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3846	0.1357	0.0423	0.0142
-	0.38- 0.35- 0.30- 0.25- 0.20- 0.15- 0.10- 0.05- 0.00- 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: 07/14/2014

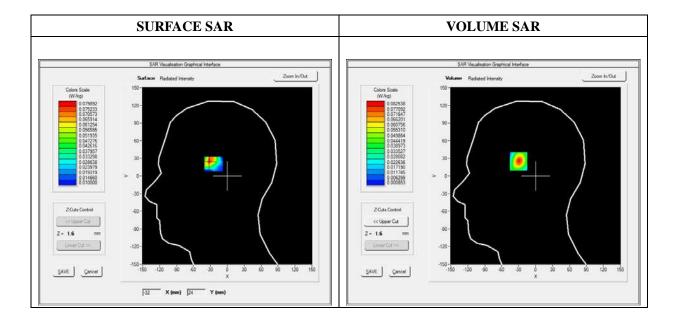
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 2013/03/21

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Tilt	
Band	WiFi_802.11b	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

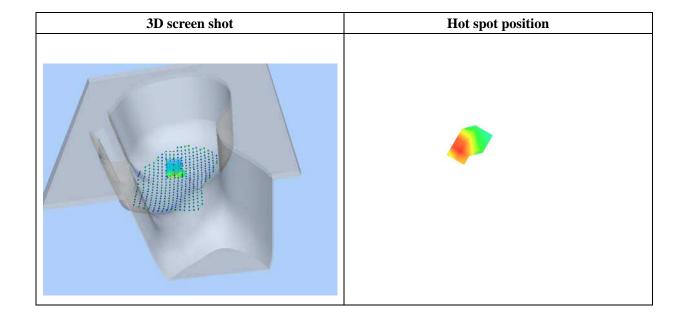
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	38.762140
Conductivity (S/m)	1.781240
Power Variation (%)	1.144120
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-30.00, Y=27.00

SAR 10g (W/Kg)	0.031932
SAR 1g (W/Kg)	0.076914

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0825	0.0274	0.0081	0.0029
	0.08 - 0.07 - 0.06 - 0.05 - 0.04 - 0.03 - 0.02 - 0.01 - 0.00 - 0.00 - 0.00 - 0.01 - 0.00 - 0.00 -		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

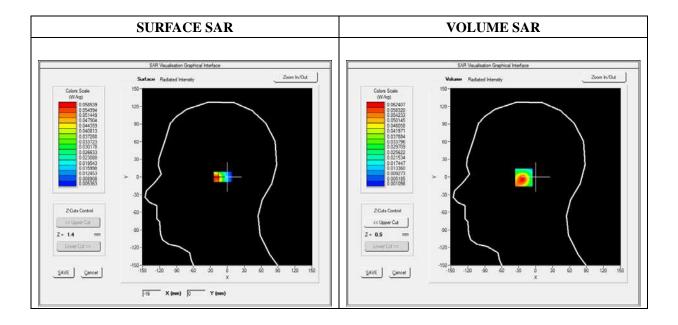
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 2013/03/21

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Left head	
Device Position	Cheek	
Band	WiFi_802.11b	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

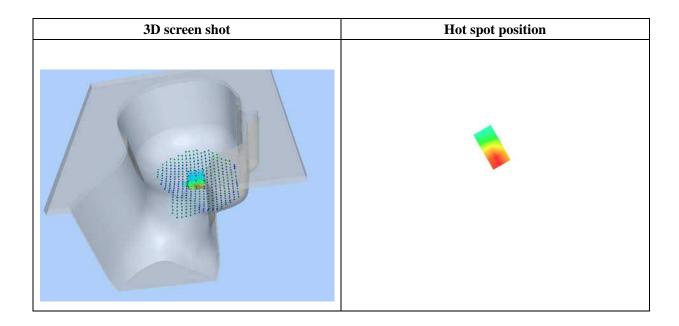
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	38.762140
Conductivity (S/m)	1.781240
Power Variation (%)	1.144120
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-19.00, Y=-1.00

SAR 10g (W/Kg)	0.027066	
SAR 1g (W/Kg)	0.059364	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0611	0.0233	0.0082	0.0033
	0.06-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
	0.05-	$\lambda + \lambda$			
	₹ 0.04-	+			
	- 0.04 - W.K.	+			
	^హ 0.02-	++			
	0.01-		\longrightarrow		
	0.00				
	0.0 2.5		12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

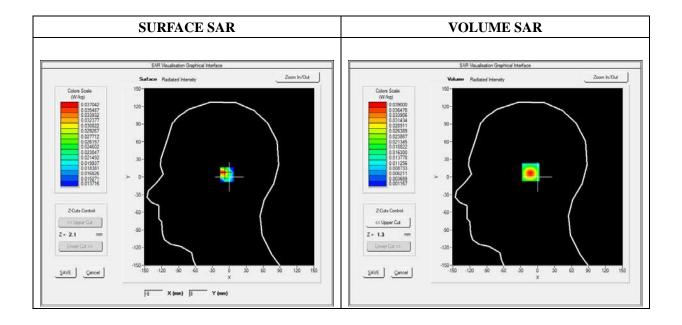
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 2013/03/21

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Left head	
Device Position	Tilt	
Band	WiFi_802.11b	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

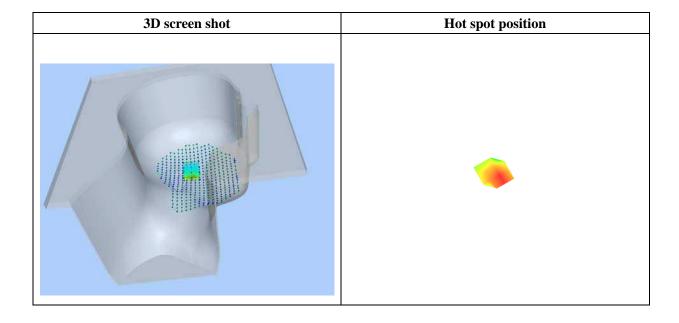
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	38.762140
Conductivity (S/m)	1.781240
Power Variation (%)	1.144120
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-10.00, Y=8.00

SAR 10g (W/Kg)	0.015794	
SAR 1g (W/Kg)	0.036274	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0390	0.0135	0.0045	0.0020
	0.039-				
	0.035-	$\overline{}$			
	0.030-	\longrightarrow			
	፵ 0.025-	\longrightarrow			
	₹ 0.020-	\longrightarrow			
	0.025- 0.020- 45 0.015-	\longrightarrow			
	0.010-		\longrightarrow		
	0.005-				
	0.001 -		 		
	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: 07/14/2014

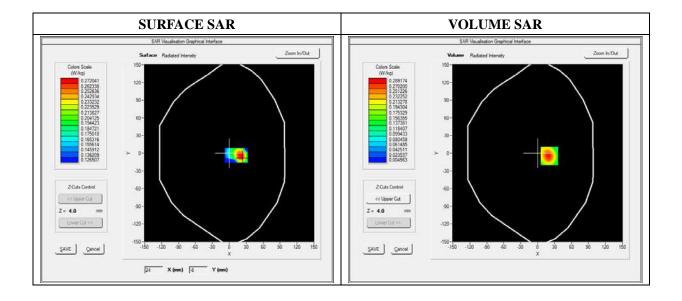
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Back	
Band	WiFi_802.11b	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

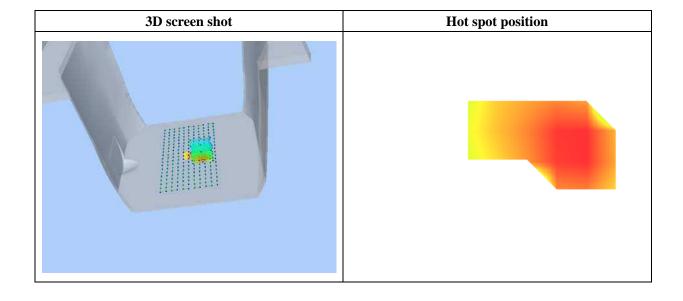
Frequency (MHz)	2412.000000	
Relative Permittivity (real part)	52.431240	
Conductivity (S/m)	1.921230	
Power Variation (%)	0.551121	
Ambient Temperature	21.1	
Liquid Temperature	21.2	



Maximum location: X=6.00, Y=2.00

SAR 10g (W/Kg)	0.079120	
SAR 1g (W/Kg)	0.112654	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1459	0.0942	0.0520	0.0312
	0.16- 0.14- 0.12- 38 0.10- 48 0.08- 0.06- 0.04- 0.03- 0.00 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: 07/14/2014

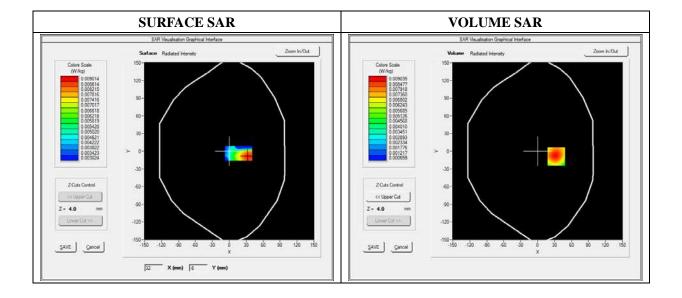
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Front	
Band	WiFi_802.11b	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

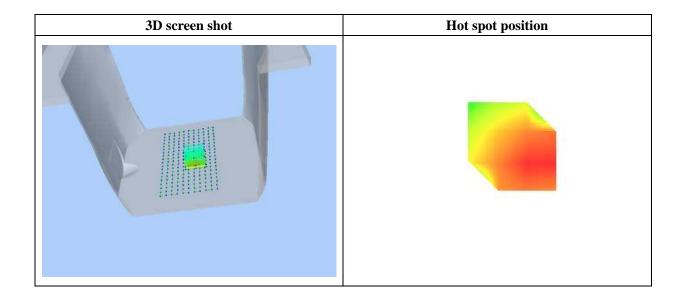
Frequency (MHz)	2412.000000	
Relative Permittivity (real part)	52.431240	
Conductivity (S/m)	1.921230	
Power Variation (%)	0.551121	
Ambient Temperature	21.1	
Liquid Temperature	21.2	



Maximum location: X=-10.00, Y=10.00

SAR 10g (W/Kg)	0.040012	
SAR 1g (W/Kg)	0.071458	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0812	0.0416	0.0204	0.0115
	0.08 - 0.07 - 0.06 - 0.05 - 0.04 - 0.03 - 0.02 - 0.01 - 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: 07/14/2014

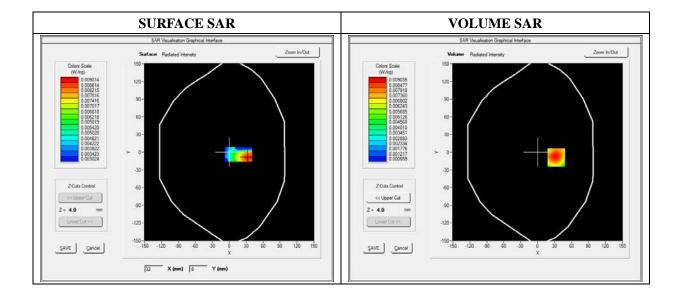
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Top Side	
Band	WiFi_802.11b	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

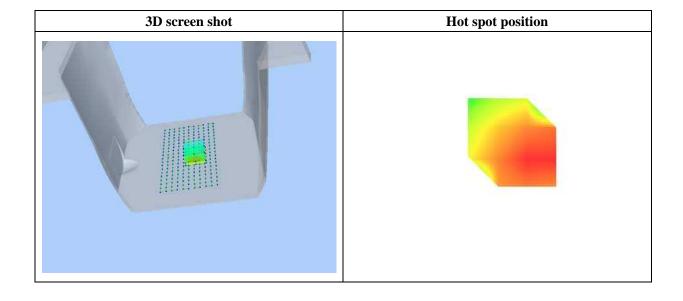
Frequency (MHz)	2412.000000	
Relative Permittivity (real part)	52.431240	
Conductivity (S/m)	1.921230	
Power Variation (%)	0.551121	
Ambient Temperature	21.1	
Liquid Temperature	21.2	



Maximum location: X=-10.00, Y=10.00

SAR 10g (W/Kg)	0.040672	
SAR 1g (W/Kg)	0.076546	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0827	0.0435	0.0229	0.0127
	0.08-				
	0.07-				
	0.06-				
	₹ 0.05				
	0.05- W/W) 9.04-				
	0.03				
	0.02				
	0.01-				
	0.0 2.5		12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

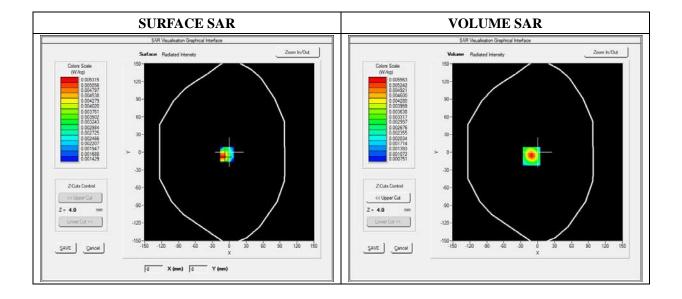
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Left Side	
Band	WiFi_802.11b	
Channels	Low	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

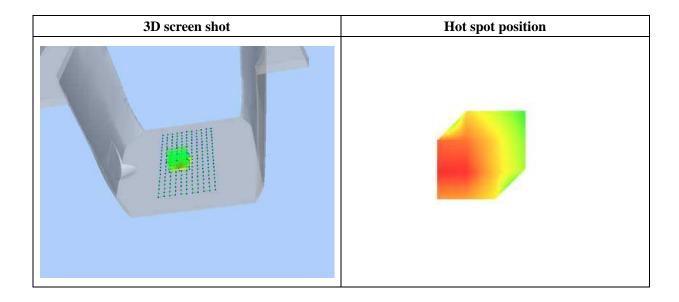
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	52.431240
Conductivity (S/m)	1.921230
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-11.00, Y=-7.00

SAR 10g (W/Kg)	0.002593	
SAR 1g (W/Kg)	0.005331	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0056	0.0018	0.0008	0.0008
	0.006-				
	0.005-	$\overline{}$			
	호 0.004 -				
	0.004- 80.003-	\			
	0.002-	++			
		1			
	0.001		105 150 155	200 205 25	
	0.0 2	.5 5.0 7.5 10.0) 12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	
			2 (IIIII)		



Type: Phone measurement (Complete)
Date of measurement: 07/14/2014

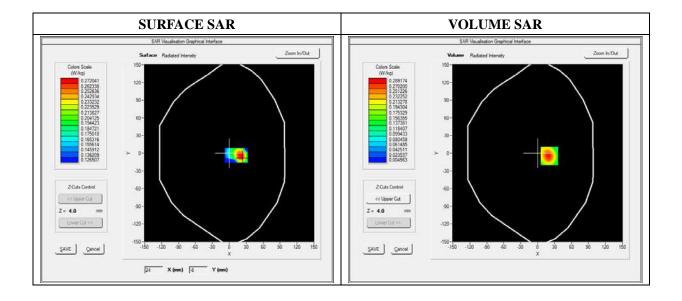
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Back(Body-worn)		
Band WiFi_802.11b			
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

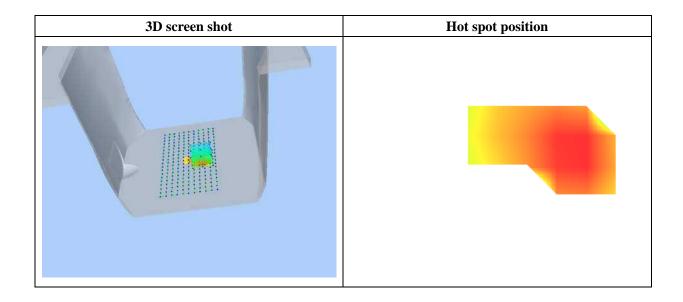
Frequency (MHz)	2412.000000	
Relative Permittivity (real part)	52.431240	
Conductivity (S/m)	1.921230	
Power Variation (%)	0.551121	
Ambient Temperature	21.1	
Liquid Temperature	21.2	



Maximum location: X=6.00, Y=2.00

SAR 10g (W/Kg)	0.071254		
SAR 1g (W/Kg)	0.112235		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1460	0.0895	0.0522	0.0342
	0.16- 0.14- 0.12- 	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: 07/14/2014

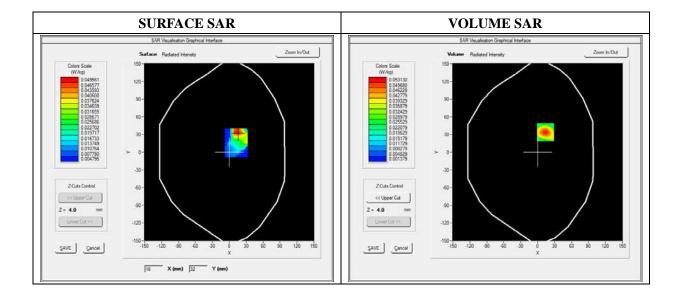
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.70; Calibrated: 03/21/2014

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Front(Body-worn)		
Band	WiFi_802.11b		
Channels	Low		
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)		

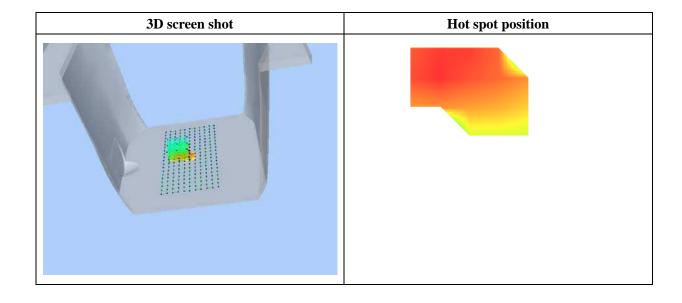
Frequency (MHz)	2412.000000	
Relative Permittivity (real part)	52.431240	
Conductivity (S/m)	1.921230	
Power Variation (%)	0.551121	
Ambient Temperature	21.1	
Liquid Temperature	21.2	



Maximum location: X=14.00, Y=34.00

SAR 10g (W/Kg)	0.024215		
SAR 1g (W/Kg)	0.048456		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0544	0.0217	0.0119	0.0058
	0.05-				
	9.04	$\dashv \lor \vdash$			
	0.03 - W 0.02-				
	^ॐ 0.02-				
	0.01-				
	0.00 - 0.0 2.	5 5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Annex C. EUT Photos

EUT View_Front



EUT View_Back



Antenna View



Annex D. Test Setup Photos

Test View 1 (Right Head)





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Test View 2 (Left Head)





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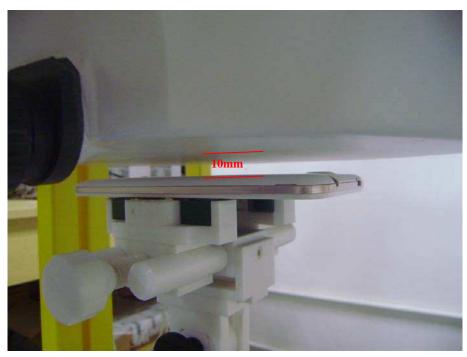


Test View 3





Back Side



Right side



Left side



Top side



Bottom Side



Body-worn



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