FCC SAR Measurement and Test Report

For

UNISTAR TELECOM CO., LIMITED

7A01, Tianjing Building, Tian'an High-tech Plaza, Futian District, Shenzhen, China

FCC ID: 2AC9P-M2

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: Smart phone

Tested Model: M2

Report No.: <u>STR14098128H</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: UNISTAR TELECOM CO., LIMITED

Address of applicant: 7A01, Tianjing Building, Tian'an High-tech Plaza, Futian

District, Shenzhen, China

Manufacturer: UNISTAR TELECOM CO., LIMITED

Address of manufacturer: 7A01, Tianjing Building, Tian'an High-tech Plaza, Futian

District, Shenzhen, China

General Description of EUT	
Product Name:	Smart phone
Brand Name:	KATA, UTTA, BAARNO
Model No.:	M2
Adding Model:	M2U, M2BS, U6, U6S, Grande, Breeze, MWG559 CITY,
-	AX7Z
Hardware Version:	A25E_MB_V1.0_20140310
Software Version:	Kata-M2-V1.02-US
IMEI:	301404227398516/213462748031509
Rated Voltage:	DC 3.7V Li-ion Battery
Battery:	M2 / 2300mAh
Device Category:	Portable Device

The EUT is dual band GSM850/900/DCS1800/PCS1900, WCDMA Band I/II/V, Smart phone. The Smart phone is intended for speech and Multimedia Message Service (MMS) transmission. It is equipped with GPRS class 12 for GSM850/900/DCS180/PCS1900 and Wi-Fi, GPS, and camera functions. For more information see the following datasheet.

Note: The test data is gathered from a production sample, provided by the manufacturer. The other model listed in the report has different appearance only of M2 without circuit and electronic construction changed, declared by the manufacturer.

Technical Characteristics of EUT				
2G				
Support Networks:	GSM, GPRS, EGPRS(Downlink)			
Support Band:	GSM850/PCS1900			
Haliah Francisco	GSM/GPRS 850: 824~849MHz			
Uplink Frequency:	GSM/GPRS 1900: 1850~1910MHz			
Downlink Fraguesia	GSM/GPRS 850: 869~894MHz			
Downlink Frequency:	GSM/GPRS 1900: 1930~1990MHz			
Max RF Output Power:	GSM850: 32.29dBm, GSM1900: 29.80dBm			
Type of Modulation:	GMSK, 8PSK			
Type of Emission:	GSM(GSM850): 254KGXW			
	GPRS(GSM850): 256KGXW			
	GSM(PCS1900): 257KGXW			
	GPRS(PCS1900): 257KGXW			
Type of Antenna:	Integral Antenna			
Antenna Gain:	0.6dBi			
GPRS Class:	Class 12			
3G				
Support Networks:	WCDMA, HSDPA, HSUPA			
Support Band:	WCDMA Band II, WCDMA Band V			
Haliah Francisco	WCDMA Band II: 1850~1980MHz			
Uplink Frequency:	WCDMA Band V: 824~849MHz			
Downlink Fraguency	WCDMA Band II: 1930~1990MHz			
Downlink Frequency:	WCDMA Band V: 869~894MHz			
Max RF Output Power:	WCDMA850: 22.67dBm, WCDMA1900: 22.66dBm			
Type of Modulation:	BPSK			
Type of Emission:	WCDMA850: 4M16F9W			
	WCDMA1900: 4M20F9W			
Type of Antenna:	Integral Antenna			
Antenna Gain:	1.1dBi			
WIFI				
Support Standards:	802.11b, 802.11g, 802.11n(HT20;HT40)			
Fraguency Banga:	2412-2472MHz for 802.11b/g/n(HT20)			
Frequency Range:	2422-2462MHz for 802.11n(HT40)			
AV Output Power:	16.87dBm (Conducted)			
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM			
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps			
Quantity of Channels:	13 for 802.11b/b/n(HT20); 9 for 802.11n(HT40)			
Channel Separation:	5MHz			
Type of Antenna:	Integral			
Antenna Gain:	1.0dBi			

1.2 Test Standards

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

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

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

1.3 Test Methodology

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

1.4 Test Facility

• FCC – Registration No.: 934118

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

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

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

• CNAS Registration No.: L4062

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

2. Summary of Test Results

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

	D '''	SAR _{1g}	Scaled SAR _{1g}
Frequency Band	Position	(W/kg)	(W/kg)
GSM850	Head	0.1153	0.1238
GSM1900	Head	0.0957	0.1028
WCDMA Band V	Head	0.1900	0.2050
WCDMA Band II	Head	0.1164	0.1259
WLAN 2.4GHz	Head	0.0596	0.0639
GSM850	Body-worn (10mm Gap)	0.1589	0.1707
GSM1900	Body-worn (10mm Gap)	0.5002	0.5372
WCDMA Band V	Body-worn (10mm Gap)	0.3370	0.3636
WCDMA Band II	Body-worn (10mm Gap)	0.5343	0.5778
WLAN 2.4GHz	Body-worn (10mm Gap)	0.0491	0.0551
GSM850	Hotspot (10mm Gap)	0.3023	0.3307
GSM1900	Hotspot (10mm Gap)	1.0635	1.1265
WCDMA Band V	Hotspot (10mm Gap)	0.3371	0.3637
WCDMA Band II	Hotspot (10mm Gap)	0.5350	0.5786
WLAN 2.4GHz	Hotspot (10mm Gap)	0.0491	0.0551
GSM850 & WLAN 2.4GHz	Head		0.1753
GSM1900 & WLAN 2.4GHz	Head		0.1550
WCDMA Band V & WLAN 2.4GHz	Head		0.2565
WCDMA Band II & WLAN 2.4GHz	Head		0.1781
GSM850 & WLAN 2.4GHz	Body-worn (10mm Gap)		0.2258
GSM1900 & WLAN 2.4GHz	Body-worn (10mm Gap)		0.5923
WCDMA Band V & WLAN 2.4GHz	Body-worn (10mm Gap)		0.4187
WCDMA Band II & WLAN 2.4GHz	Body-worn (10mm Gap)		0.6329
GSM850 & WLAN 2.4GHz	Hotspot (10mm Gap)		0.3858
GSM1900 & WLAN 2.4GHz	Hotspot (10mm Gap)		1.1816
WCDMA Band V & WLAN 2.4GHz	Hotspot (10mm Gap)		0.4188
WCDMA Band II & WLAN 2.4GHz	Hotspot (10mm Gap)		0.6337

The highest reported SAR values for head, body-worn accessory, product specific (wireless router), and simultaneous transmission conditions are 0.13W/kg, 0.58W/kg, 1.13W/kg, and 1.18W/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

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 mm- Maximum external diameter: 8 mm- Probe Tip External Diameter: 5 mm

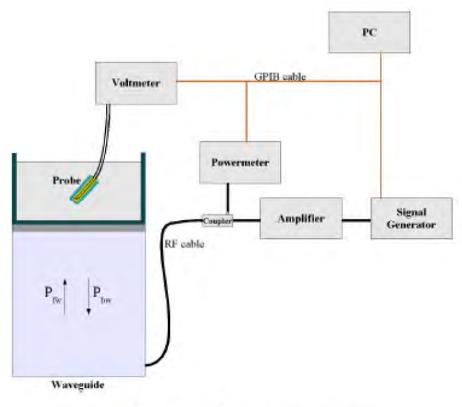
- Distance between dipoles / probe extremity: 2.7mm

- 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.

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

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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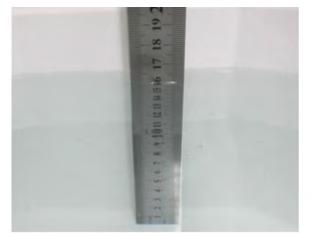
4.6 Test Equipment List

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	2013-11-26	2014-11-25
1900MHz Dipole	SATIMO	SID1900	SN 47/12 DIP 1G900-207	2013-11-26	2014-11-25
2450MHz Dipole	SATIMO	SID2450	SN 47/12 DIP 2G450-209	2013-11-26	2014-11-25
Dielectric Probe Kit	SATIMO	SCLMP	SN 47/12 OCPG49	2013-11-26	2014-11-25
SAM Phantom	SATIMO	SAM	SN/ 47/12 SAM95	N/A	N/A
MULTIMETER	KEITHLEY	Keithley 2000	4006367	2014-05-07	2015-05-06
Signal Generator	Rohde & Schwarz	SMR20	100047	2014-05-07	2015-05-06
Universal Tester	Rohde & Schwarz	CMU200	112012	2014-05-07	2015-05-06
Network Analyzer	HP	8753C	2901A00831	2014-05-07	2015-05-06
Data Acquisition Electronics	SATIMO	DAE4	915	2014-05-07	2015-05-06
Directional Couplers	Agilent	778D	20160	2014-05-07	2015-05-06

5. Tissue Simulating Liquids

5.1 Composition of Tissue Simulating Liquid

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



Liquid Height for Head SAR



Liquid Height for Body SAR

The Composition of Tissue Simulating Liquid

Frequency	Water	Salt	Triton	HEC	Preventol	DGBE
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)
			Head			
835	35.34	0.98	0.00	0.00	63.68	0.00
1900	55.26	0.52	30.40	0.00	0.00	13.82
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.

To	Не	ead	Во	ody
Target Frequency	Conductivity	Permittivity	Conductivity	Permittivity
(MHz)	(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	Conductivity]	Permittivity	T 4		
Freq. MHz.	Temp. (°C)	Reading	Target	Delta	Reading	Target	Delta	Limit (%)	Date
MITIZ.	(0)	(σ)	(σ)	(%)	$(\mathcal{E}\mathbf{r})$	$(\mathcal{E}\mathbf{r})$	(%)	(70)	
835	21.2	0.87	0.90	-3.33	41.11	41.50	-0.94	±5	2014-09-22
1900	21.3	1.38	1.40	-1.43	38.56	40.00	-3.60	±5	2014-09-22
2450	21.3	1.74	1.80	-3.33	38.15	39.20	-2.68	±5	2014-09-22

Body Tissue Simulating Liquid									
Emag	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	0.95	0.97	-2.06	54.85	55.20	-0.63	±5	2014-09-22
1900	21.3	1.50	1.52	-1.32	52.42	53.30	-1.65	±5	2014-09-22
2450	21.3	1.91	1.95	-2.05	52.01	52.70	-1.31	±5	2014-09-22

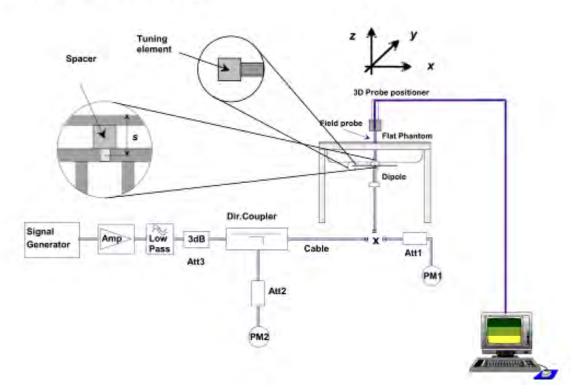
6. SAR Measurement Evaluation

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	2.40	9.61	-2.14				
1900	40.79	9.98	39.91	-2.16				
2450	52.50	12.81	51.25	-2.38				
		Body						
835	10.19	2.47	9.89	-2.94				
1900	40.41	9.97	39.87	-1.34				
2450	51.80	12.81	51.25	-1.06				

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

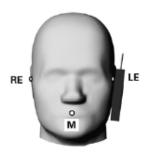
- (a) The vertical centerline passes through two points on the front side of the handset the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- (b) The horizontal line is perpendicular to the vertical centerline 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).





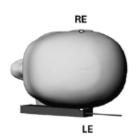


Illustration for Cheek Position

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).





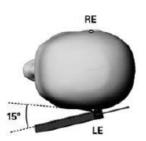


Illustration for Tilted Position

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.

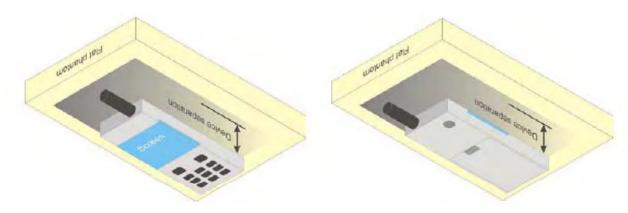


Illustration for Body Position

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	Antennas Front Back Right Side Left Side Top Side Bottom Side											
WWAN	Yes	Yes	Yes	Yes	No	Yes						
WLAN	WLAN Yes Yes Yes No 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 PCS								
Channel	128	190	661	810						
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880	1909.8				
GSM	32.19	32.15	32.07	29.73	29.80	29.69				
GPRS (1 slot)	32.29	32.26	32.02	29.74	29.49	29.62				
GPRS (2 slots)	31.51	31.40	31.55	28.44	28.74	29.21				
GPRS (3 slots)	29.68	29.51	29.69	26.63	26.94	27.29				
GPRS (4 slots)	28.60	28.46	28.61	25.50	25.80	26.25				

GSM	GSM - Source-Based Time-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	23.19	23.15	23.07	20.73	20.80	20.69					
GPRS (1 slot)	23.29	23.26	23.02	20.74	20.49	20.62					
GPRS (2 slots)	25.51	25.40	25.55	22.44	22.74	23.21					
GPRS (3 slots)	25.43	25.26	25.44	22.38	22.69	23.04					
GPRS (4 slots)	25.60	25.46	25.61	22.50	22.80	23.25					

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

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

Remark

- 1. For Head SAR testing, GSM should be evaluated, therefore the EUT was set in GSM for GSM850 and GSM1900 due to its highest source-based time-average power.
- 2. For Body SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS (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	4132 4182 4233			9400	9538	
Frequency (MHz)	826.4	836.4	846.6	1852.4	1880.0	1907.6	
RMC 12.2k	22.67	22.52	22.48	22.57	21.99	<mark>22.66</mark>	
HSDPA Subtest-1	21.76	21.60	21.90	21.81	21.07	21.25	
HSDPA Subtest-2	21.57	21.54	21.54	21.75	21.00	21.21	
HSDPA Subtest-3	21.54	21.25	21.34	21.34	20.94	21.11	
HSDPA Subtest-4	21.25	21.15	21.12	21.61	21.12	21.24	
HSDPA Subtest-5	21.15	21.32	21.37	21.25	20.85	21.00	
HSUPA Subtest-1	21.56	21.66	21.84	21.78	21.21	21.16	
HSUPA Subtest-2	21.14	21.24	21.45	21.42	21.12	21.12	
HSUPA Subtest-3	21.31	21.15	21.37	21.15	21.09	21.07	
HSUPA Subtest-4	21.24	21.24	21.21	21.24	21.04	21.03	

Remark:

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

	WLAN	V - Maximum Average	e Power	
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)
		CH 01	2412	16.87
802.11b	1Mbps	CH 07	2442	16.37
		CH 13	2472	15.46
		CH 01	2412	12.62
802.11g	54Mbps	CH 07	2442	12.19
		CH 13	2472	11.14
		CH 01	2412	13.01
802.11n (20MHz)	MCS7	CH 07	2442	11.98
		CH 13	2472	11.16
		CH 03	2422	12.47
802.11n (40MHz)	MCS7	CH 07	2442	11.75
		CH 11	2462	11.00

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.

9.2 Test Results for Standalone SAR Test

Head SAR

	GSM850 – Head SAR Test												
Plot		Test Position -	Frequency		Output	Rated	Scaling	SAR1g	Scaled				
No.	Mode		CH. MHz		Power	Limit	Factor	(W/kg)	SAR1g				
110.		Heau			(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)				
1	GSM	Right Cheek	128	824.2	32.19	32.5	1.07	0.1153	0.1238				
2	GSM	Right Tilted	128	824.2	32.19	32.5	1.07	0.0421	0.0452				
3	GSM	Left Cheek	128	824.2	32.19	32.5	1.07	0.0926	0.0995				
4	GSM	Left Tilted	128	824.2	32.19	32.5	1.07	0.0436	0.0468				

	GSM1900 – Head SAR Test											
Plot		Test Position	Frequency		Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode	Head	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g			
110.		Heau	CII.	WIIIZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)			
12	GSM	Right Cheek	810	1909.8	29.69	30.0	1.07	0.0825	0.0886			
13	GSM	Right Tilted	810	1909.8	29.69	30.0	1.07	0.0247	0.0265			
14	GSM	Left Cheek	810	1909.8	29.69	30.0	1.07	0.0957	0.1028			
15	GSM	Left Tilted	810	1909.8	29.69	30.0	1.07	0.0286	0.0307			

	WCDMA Band V – Head SAR Test											
Plot		Test Postion -	Freq	uency	Output	Rated	Scaling	CAD1.	Scaled			
No.	Mode		СП	МЦа	Power	Limit	Factor	SAR1g (W/kg)	SAR1g			
110.		Heau	CH. MHz	(dBm)	(dBm)	Factor	(W/Kg)	(W/kg)				
25	RMC	Right Cheek	4132	826.4	22.67	23.0	1.08	0.1900	0.2050			
26	RMC	Right Tilted	4132	826.4	22.67	23.0	1.08	0.0595	0.0642			
27	RMC	Left Cheek	4132	826.4	22.67	23.0	1.08	0.1765	0.1904			
28	RMC	Left Tilted	4132	826.4	22.67	23.0	1.08	0.0545	0.0588			

	WCDMA Band II – Head SAR Test											
Plot		The set December 1	Freq	uency	Output	Rated	Scaling	SAR1g (W/kg)	Scaled			
No.	Mode	Test Postion Head	СП	MUa	Power	Limit	Factor		SAR1g			
110.		Heau	CH. MHz	(dBm)	(dBm)	Factor	(W/Kg)	(W/kg)				
36	RMC	Right Cheek	9538	1907.6	22.66	23.0	1.08	0.0769	0.0832			
37	RMC	Right Tilted	9538	1907.6	22.66	23.0	1.08	0.0248	0.0268			
38	RMC	Left Cheek	9538	1907.6	22.66	23.0	1.08	0.1164	0.1259			
39	RMC	Left Tilted	9538	1907.6	22.66	23.0	1.08	0.0301	0.0326			

	WLAN 2.4GHz – Head SAR Test													
Plot		Test	Frequency		Output	Rated	Scaling	SAR1g	Scaled					
No.	Mode	Postion	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g					
190.		Head	Сп.	MHZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)					
47	802.11b	Right Cheek	07	2442	16.5	17.0	1.12	0.0459	0.0515					
48	802.11b	Right Tilted	07	2442	16.5	17.0	1.12	0.0475	0.0533					
49	802.11b	Left Cheek	07	2442	16.5	17.0	1.12	0.0465	0.0522					
50	802.11b	Left Tilted	07	2442	16.5	17.0	1.12	0.0519	0.0582					
51	802.11b	Left Tilted	01	2412	16.7	17.0	1.07	0.0596	0.0639					
52	802.11b	Left Tilted	13	2472	15.7	17.0	1.35	0.0419	0.0565					

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.

Body-worn SAR

	GSM850 – Body SAR Test (Gap: 10mm)											
Plot		Test Postion	Frequency		Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode		CH	MHz	Power	Limit	Factor	(W/kg)	SAR1g			
110.		Body CH. MI	MITZ	(dBm)	(dBm)	Factor	(W/Kg)	(W/kg)				
5	GSM	Back	128	824.2	32.19	32.5	1.07	0.1589	0.1707			
6	GSM	Front	128	824.2	32.19	32.5	1.07	0.1353	0.1453			

	GSM1900 – Body SAR Test (Gap: 10mm)										
Plot		Test Postion	Frequency		Output	Rated	Scaling	SAR1g	Scaled		
No.	Mode		СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g		
140.		Body	CH.	WIIIZ	(dBm)	(dBm)	Factor	(W/Kg)	(W/kg)		
16	GSM	Back	810	1909.8	29.69	30.0	1.07	0.5002	0.5372		
17	GSM	Front	810	1909.8	29.69	30.0	1.07	0.3526	0.3787		

	WCDMA Band V – Body SAR Test (Gap: 10mm)									
Plot		Test Postion	Frequency		Output	Rated	Scaling	SAR1g	Scaled	
No.	Mode	Body	CH. MHz		Power (dBm)	Limit (dBm)	Factor	(W/kg)	SAR1g (W/kg)	
34	RMC 12.2k	Back	4132	826.4	22.67	23.0	1.08	0.3370	0.3636	
35	RMC 12.2k	Front	4132	826.4	22.67	23.0	1.08	0.0958	0.1034	

	WCDMA Band II – Body SAR Test (Gap: 10mm)										
Plot		Test Postion	Frequency		Output	Rated	Scaling	CAD1a	Scaled		
No.	Mode		СН.	MHz	Power	Limit	Factor	SAR1g	SAR1g		
NO.		Body	CH.	MITZ	(dBm)	(dBm)	ractor	(W/kg)	(W/kg)		
45	RMC 12.2k	Back	9538	1907.6	22.66	23.0	1.08	0.5343	0.5778		
46	RMC 12.2k	Front	9538	1907.6	22.66	23.0	1.08	0.5230	0.5656		

	WLAN 2.4GHz –Body SAR Test									
Plot No.		Test	Frequ	Frequency		Rated	Scaling	SAR1g	Scaled	
	Mode	Mode Postio	Postion	CH. MHz	Power	Limit	Factor	(W/kg)	SAR1g	
110.		Body	Cn.	MITIZ	(dBm)	(dBm)	ractor	(vv/kg)	(W/kg)	
53	802.11b	Back Side	07	2442	16.5	17.0	1.12	0.0491	0.0551	
54	802.11b	Front Side	07	2442	16.5	17.0	1.12	0.0129	0.0145	

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.

Hotspot SAR

	GSM850 – Body SAR Test (Gap: 10mm)										
Plot		Test Postion	Freq	Frequency		Rated	Scaling	SAR1g	Scaled		
No.	Mode	Body	СН.	MHz	Power	Limit	Scaling Factor	(W/kg)	SAR1g		
110.		Body	CII.	WIIIZ	(dBm)	(dBm)			(W/kg)		
7	GPRS_4TX	Back Side	251	848.8	28.61	29.0	1.09	0.3023	0.3307		
8	GPRS_4TX	Front Side	251	848.8	28.61	29.0	1.09	0.1053	0.1152		
9	GPRS_4TX	Bottom side	251	848.8	28.61	29.0	1.09	0.1737	0.1900		
10	GPRS_4TX	Right side	251	848.8	28.61	29.0	1.09	0.0328	0.0359		
11	GPRS_4TX	Left side	251	848.8	28.61	29.0	1.09	0.2389	0.2613		

		GSM	1900 – Bo	dy SAR T	est (Gap: 1	10mm)			
Plot		Test Postion	Frequ	uency	Output	Rated	Scaling	SAR1g	Scaled
No.	Mode	Body	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g
140.		Douy	CH. MHZ	(dBm)	(dBm)	ractor	(W/Kg)	(W/kg)	
18	GPRS_4TX	Back Side	810	1909.8	26.25	26.5	1.06	1.0635	1.1265
19	GPRS_4TX	Back Side	512	1850.2	25.50	26.5	1.26	0.6723	0.8464
20	GPRS_4TX	Back Side	661	1880.0	25.80	26.5	1.17	0.9162	1.0764
21	GPRS_4TX	Front Side	810	1909.8	26.25	26.5	1.06	0.5820	0.6165
22	GPRS_4TX	Bottom side	810	1909.8	26.25	26.5	1.06	0.7659	0.8113
23	GPRS_4TX	Right side	810	1909.8	26.25	26.5	1.06	0.2218	0.2349
24	GPRS_4TX	Left side	810	1909.8	26.25	26.5	1.06	0.1502	0.1591

	WCDMA Band V – Body SAR Test (Gap: 10mm)										
Plot		Test Postion	Frequency		Output	Rated	Scaling	CAD1a	Scaled		
No.	Mode	Body	СП	CH. MHz	MII	Power	Limit	Factor	SAR1g (W/kg)	SAR1g	
110.		Bouy	CH.		(dBm)	(dBm)	ractor	(W/kg)	(W/kg)		
29	RMC 12.2k	Back Side	4132	826.4	22.67	23.0	1.08	0.3371	0.3637		
30	RMC 12.2k	Front Side	4132	826.4	22.67	23.0	1.08	0.1001	0.1080		
31	RMC 12.2k	Bottom side	4132	826.4	22.67	23.0	1.08	0.1859	0.2006		
32	RMC 12.2k	Right side	4132	826.4	22.67	23.0	1.08	0.1143	0.1233		
33	RMC 12.2k	Left side	4132	826.4	22.67	23.0	1.08	0.0728	0.0785		

	WCDMA Band II – Body SAR Test (Gap: 10mm)										
Plot		Test Postion	Freq	uency	Output	Rated	Caslina	SAR1g	Scaled		
No.	Mode		CH	МПа	Power	Limit	Scaling Factor	(W/kg)	SAR1g		
110.		Douy	Body CH. MHz (dBm) (dBm	(dBm)	ractor	(W/Kg)	(W/kg)				
40	RMC 12.2k	Back Side	9538	1907.6	22.66	23.0	1.08	0.5350	0.5786		
41	RMC 12.2k	Front Side	9538	1907.6	22.66	23.0	1.08	0.5230	0.5656		
42	RMC 12.2k	Bottom side	9538	1907.6	22.66	23.0	1.08	0.4492	0.4858		
43	RMC 12.2k	Right side	9538	1907.6	22.66	23.0	1.08	0.1874	0.2027		
44	RMC 12.2k	Left side	9538	1907.6	22.66	23.0	1.08	0.1291	0.1396		

	WLAN 2.4GHz –Body SAR Test											
Plot		Test	Frequ	uency	Output	Rated	Scaling	SAR1g	Scaled			
No.	Mode	Postion	СН.	MHz	Power	Limit	Factor	(W/kg)	SAR1g			
140.		Body	011	WIIIZ	(dBm)	(dBm)		(W/Kg)	(W/kg)			
53	802.11b	Back Side	07	2442	16.5	17.0	1.12	0.0491	0.0551			
54	802.11b	Front Side	07	2442	16.5	17.0	1.12	0.0129	0.0145			
55	802.11b	Right side	07	2442	16.5	17.0	1.12	0.0058	0.0065			
56	802.11b	Top Side	07	2442	16.5	17.0	1.12	0.0079	0.0089			
57	802.11b	Back Side	01	2412	16.7	17.0	1.07	0.0471	0.0505			
58	802.11b	Back Side	13	2472	15.7	17.0	1.35	0.0368	0.0496			

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

9.3 Simultaneous Multi-band Transmission SAR Analysis

List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Head SAR	Body-worn SAR	Hotspot SAR
1	GSM + WLAN	Yes	Yes	-
2	GPRS + WLAN	-	-	Yes
3	WCDMA + WLAN	Yes	Yes	-
5	HSDPA + WLAN	-	-	Yes
5	HSUPA + WLAN	-	-	Yes

Remark:

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

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

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

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

Head SAR WWAN and WLAN

	WW	AN	WLAN	GIGAD
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	Summed SAR (W/kg)
Right Cheek	GSM850	0.1238	0.0515	0.1753
Right Tilted	GSM850	0.0452	0.0533	0.0985
Left Cheek	GSM850	0.0995	0.0522	0.1517
Left Tilted	GSM850	0.0468	0.0639	0.1107
Right Cheek	GSM1900	0.0886	0.0515	0.1401
Right Tilted	GSM1900	0.0265	0.0533	0.0798
Left Cheek	GSM1900	0.1028	0.0522	0.155
Left Tilted	GSM1900	0.0307	0.0639	0.0946
Right Cheek	WCDMA Band V	0.2050	0.0515	0.2565
Right Tilted	WCDMA Band V	0.0642	0.0533	0.1175
Left Cheek	WCDMA Band V	0.1904	0.0522	0.2426
Left Tilted	WCDMA Band V	0.0588	0.0639	0.1227
Right Cheek	WCDMA Band II	0.0832	0.0515	0.1347
Right Tilted	WCDMA Band II	0.0268	0.0533	0.0801
Left Cheek	WCDMA Band II	0.1259	0.0522	0.1781
Left Tilted	WCDMA Band II	0.0326	0.0639	0.0965

Body-worn SAR WWAN and WLAN

	WWAN	I	WLAN	Summed SAR
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	(W/kg)
Back	GSM850	0.1707	0.0551	0.2258
Front	GSM850	0.1453	0.0145	0.1598
Back	GSM1900	0.5372	0.0551	0.5923
Front	GSM1900	0.3787	0.0145	0.3932
Back	WCDMA Band V	0.3636	0.0551	0.4187
Front	WCDMA Band V	0.1034	0.0145	0.1179
Back	WCDMA Band II	0.5778	0.0551	0.6329
Front	WCDMA Band II	0.5656	0.0145	0.5801

Hotspot SAR WWAN and WLAN

	ww	'AN	WLAN	Summed SAR (W/kg)	
D = = 141 =	Dan J	Scaled SAR	Scaled SAR		
Position	Band	(W/kg)	(W/kg)		
Back	GSM850	0.3307	0.0551	0.3858	
Front	GSM850	0.1152	0.0145	0.1297	
Top side	GSM850		0.0089	0.0089	
Bottom side	GSM850	0.1900		0.1900	
Right side	GSM850	0.0359	0.0065	0.0424	
Left side	GSM850	0.2613		0.2613	
Back	GSM1900	1.1265	0.0551	1.1816	
Front	GSM1900	0.6165	0.0145	0.6310	
Top side	GSM1900		0.0089	0.0089	
Bottom side	GSM1900	0.8113		0.0089	
Right side	GSM1900	0.2349	0.0065	0.2414	
Left side	GSM1900	0.1591		0.1591	
Back	WCDMA Band V	0.3637	0.0551	0.4188	
Front	WCDMA Band V	0.1080	0.0145	0.1225	
Top side	WCDMA Band V		0.0089	0.0089	
Bottom side	WCDMA Band V	0.2006		0.2006	
Right side	WCDMA Band V	0.1233	0.0065	0.1298	
Left side	WCDMA Band V	0.0785		0.0785	
Back	WCDMA Band II	0.5786	0.0551	0.6337	
Front	WCDMA Band II	0.5656	0.0145	0.5801	
Top side	WCDMA Band II		0.0089	0.0089	
Bottom side	WCDMA Band II	0.4858		0.4858	
Right side	WCDMA Band II	0.2027	0.0065	0.2092	
Left side	WCDMA Band II	0.1396		0.1396	

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		
M		(+- %)	Dist.				(+-%)	(+-%)			
Measurement System	F 2 1	7.0	N.T	1	1	1	7.00	7.00			
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	$\sqrt{3}$	(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	œ		
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	œ		
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	œ		
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	œ		
Reponse Time	E.2.7	3.0	R	√3	1	1	1.73	1.73	œ		
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	œ		
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	œ		
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	√3	1	1	1.15	1.15	×		
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	√3	1	1	0.03	0.03	œ		
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	√3	1	1	2.89	2.89	8		
Test Sample Related											
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	Phantom and Tissue Parameters										
Phantom Uncertainty (Shape and	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	œ		
thickness tolerances)				,							
Liquid conductivity - deviation	E.3.2	5.00	R	√3	0.64	0.43	1.85	1.24			
from target value											
Liquid conductivity -	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15			
measurement uncertainty	E 2 2	0.27	D	√3	0.6	0.40	0.12	0.10			
Liquid permittivity - deviation from target value	E.3.2	0.37	R	N3	0.6	0.49	0.13	0.10			
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M		

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

10.2 Uncertainty for System Performance Check

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol	Prob.	Div.	Ci (1g)	Ci (10g)	1g Ui	10g Ui	Vi
		(+- %)	Dist.				(+-%)	(+-%)	
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	√3	(1_Cp)^1/2	(1_Cp)^1/2	1.02	1.02	œ
Hemispherical Isotropy	E.2.2	4.0	R	√3	(Cp)^1/2	(Cp)^1/2	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	8
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	8
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	8
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∞
Reponse Time	E.2.7	3.0	R	√3	1	1	1.73	1.73	8
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	8
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	∞
Probe positioner Mechanical	E.6.2	2.0	R	√3	1	1	1.15	1.15	∞
Tolerance									
Probe positioning with respect to	E.6.3	0.05	R	$\sqrt{3}$	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	œ
thickness tolerances)									
Liquid conductivity - deviation	E.3.2	5.00	R	√3	0.64	0.43	1.85	1.24	
from target value									

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

Annex A. Plots of System Performance Check

MEASUREMENT 1

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/22/2014

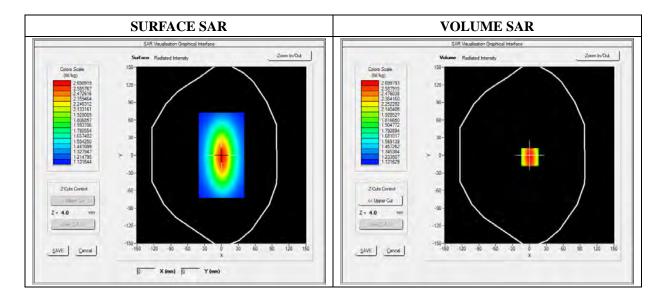
Measurement duration: 7 minutes 21 seconds

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	Duty Cycle 1:1	

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

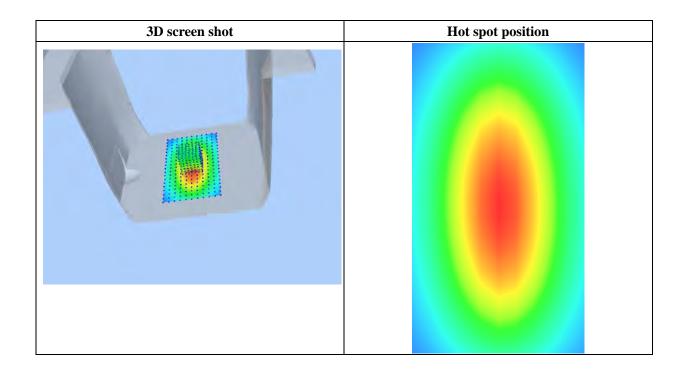


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.129489
SAR 1g (W/Kg)	2.40125

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	2.4900	1.8942	1.4811	1.3541	1.1123	1.0539
(W/Kg)							
	2.5 2.3 2.1! MW 1.87 1.50 1.3 1.11 1.0	75	7.5 10.0 12.515	5.0 17.520.0 22.5 Z (mm)	525.0 27.530.0 3	32.535.0	



For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/22/2014

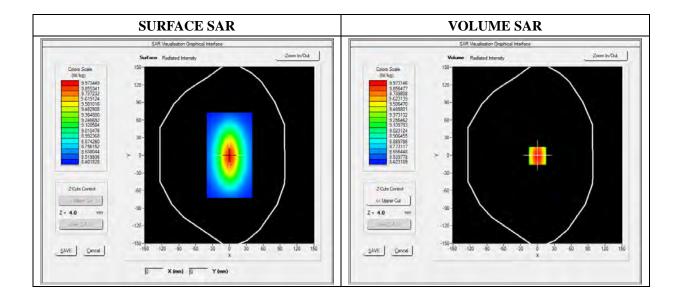
Measurement duration: 12 minutes 21 seconds

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	Duty Cycle 1:1

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

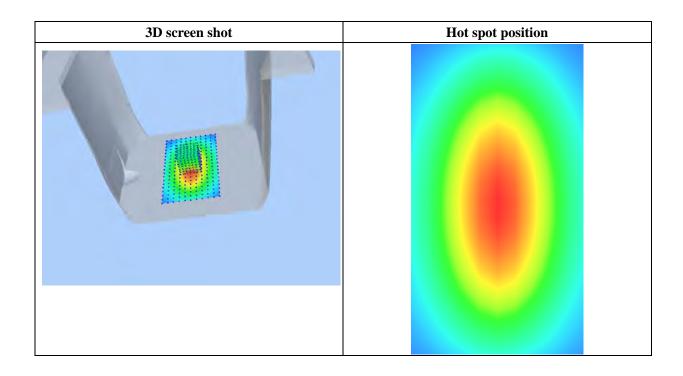


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	7.174526
SAR 1g (W/Kg)	9.983214

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	10.2354	6.8400	5.0121	4.1189	3.0522	2.8424
(W/Kg)							
	10.30 9.00 7.00 84 87 5.00 2.50	0-	7.5 10.0 12.5 15.	0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 3	2.5 35.0	



For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/22/2014

Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

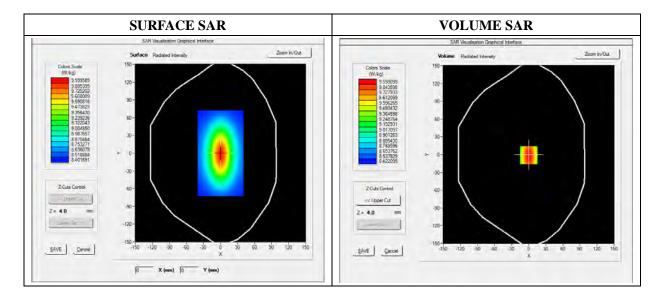
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Middle Band SAR

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	1.141452
Ambient Temperature	21.1
Liquid Temperature	21.2

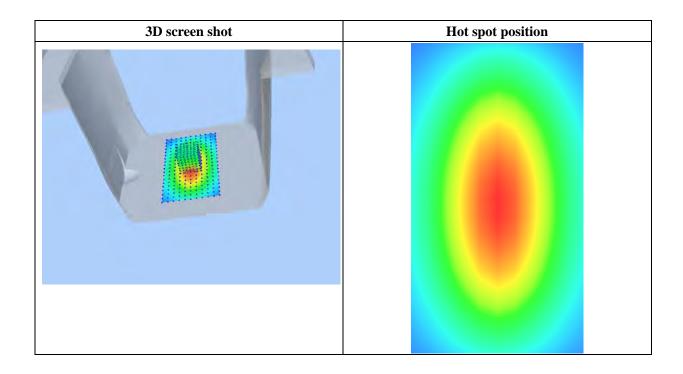


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	8.020427
SAR 1g (W/Kg)	12.812457

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	14.1034	12.0012	10.2624	7.4715	5.9022	4.5114
(W/Kg)							
	14.25 13.25 10.60 W/W 7.77 EV 6.50 4.00 3.00	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: 09/22/2014

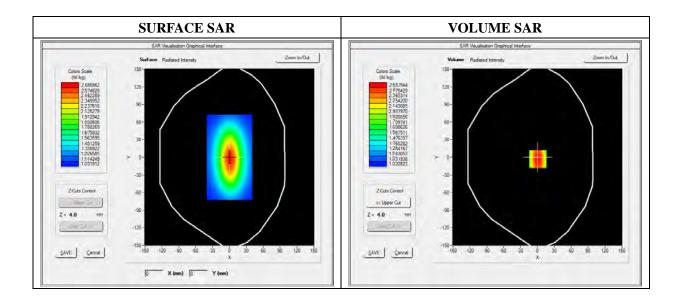
Measurement duration: 12 minutes 21 seconds

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	Duty Cycle 1:1	

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

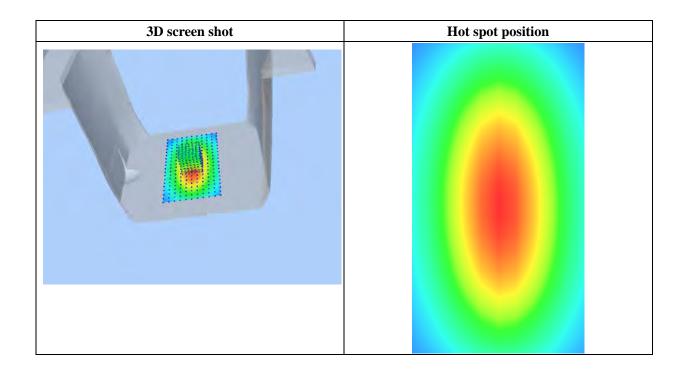


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.028956
SAR 1g (W/Kg)	2.474211

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	2.5789	1.1300	0.8795	0.5940	0.5011	0.5100
(W/Kg)							
	2.60 1.45 1.20 WW 0.95 8W 0.70 0.55 0.40			0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 32	2.5 35.0	



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/22/2014

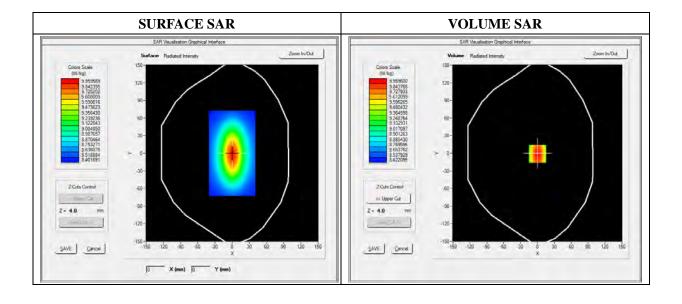
Measurement duration: 12 minutes 21 seconds

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	Duty Cycle 1:1	

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

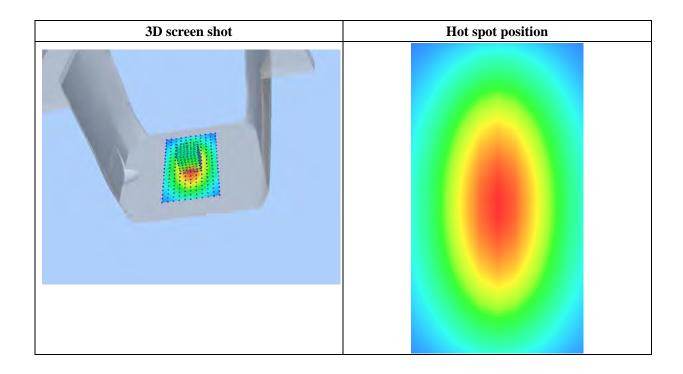


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.134651
SAR 1g (W/Kg)	9.981550

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2031	6.43001	4.9011	4.5325	3.1201	2.5024
	10.30 9.25 7.60 WW 6.20 84.70 3.00 2.00	0-	7.5 10.0 12.5 15	.0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 3	2.5 35.0	



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/22/2014

Measurement duration: 12 minutes 21 seconds

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

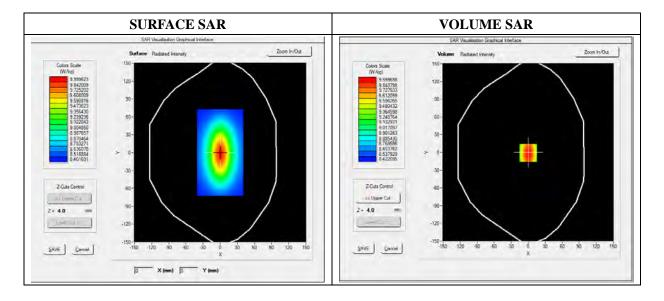
A. Experimental conditions

Area Scan	dx=8mm dy=8mm	
Phantom	Validation plane	
Device Position	Dipole	
Band	CW2450	
Channels	Middle	
Signal	Duty Cycle 1:1	

B. SAR Measurement Results

Middle Band SAR

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	1.369745
Ambient Temperature	21.1
Liquid Temperature	21.2

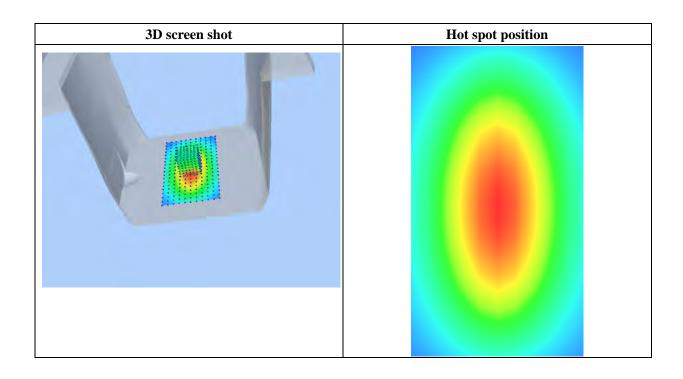


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	7.119522
SAR 1g (W/Kg)	12.81236

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	13.3911	11.7951	9.2945	8.5400	6.3712	4.6225
(W/Kg)							
	13.27 12.25 7.60 WW 6.17 6.17 4.50 3.05 2.03			0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 3	2.5 35.0	



Annex B. Plots of SAR Measurement

TYPE	BAND	<u>PARAMETERS</u>
Phone	GSM850	Measurement 1:Right Head with Cheek device position
		on Low Channel in GSM mode
Phone	GSM850	Measurement 2: Right Head with Tilt device position
		on Low Channel in GSM mode
Phone	GSM850	Measurement 3: Left Head with Cheek device position on Low Channel in GSM mode
TO I	CCD FOFO	Measurement 4: Left Head with Tilt device position on
Phone	GSM850	Low Channel in GSM mode
DI	CCMOTO	Measurement 5: Flat Plane with Back(Body-worn)
Phone	GSM850	device position on Low Channel in GSM mode
DI	CCMOEO	Measurement 6: Flat Plane with Front(Body-worn)
Phone	GSM850	device position on Low Channel in GSM mode
Dhomo	CDDC050 ATV	Measurement 7: Flat Plane with Back device position
Phone	GPRS850_4TX	on High Channel in GPRS mode
Phone	CDDCQ50 ATV	Measurement 8: Flat Plane with Front device position
rnone	GPRS850_4TX	on High Channel in GPRS mode
Phone	GPRS850_4TX	Measurement 9: Flat Plane with Bottom side device
1 none	GI K505U_41A	position on High Channel in GPRS mode
Phone	GPRS850_4TX	Measurement 10: Flat Plane with Right side device
1 none	GI N505U_41A	position on High Channel in GPRS mode
Phone	GPRS850_4TX	Measurement 11: Flat Plane with Left side device
1 Hone	G1 K5050_41A	position on High Channel in GPRS mode
Phone	GSM1900	Measurement 12: Right Head with Cheek device
1 Hone	GSWII700	position on High Channel in GSM mode
Phone	GSM1900	Measurement 13: Right Head with Tilt device position
1 none	GSMITAGO	on High Channel in GSM mode
Phone	GSM1900	Measurement 14: Left Head with Cheek device position
Inone	GDITIE	on High Channel in GSM mode
Phone	GSM1900	Measurement 15: Left Head with Tilt device position
	221227	on High Channel in GSM mode
Phone	GSM1900	Measurement 16: Flat Plane with Back(Body-worn)
		device position on High Channel in GSM mode
Phone	GSM1900	Measurement 17: Flat Plane with Front(Body-worn)
		device position on High Channel in GSM mode
Phone	GPRS1900_4TX	Measurement 18: Flat Plane with Back device position
		on 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 position 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
Phone	WCDMA850_RMC	Measurement 25: Right Head with Cheek device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 26: Right Head with Tilt device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 27: Left Head with Cheek device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 28: Left Head with Tilt device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 29: Flat Plane with Back device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 30: Flat Plane with Front device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 31: Flat Plane with Bottom side device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 32: Flat Plane with Right side device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 33: Flat Plane with Left side device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 34: Flat Plane with Back(Body-worn) device position on Low Channel in WCDMA mode
Phone	WCDMA850_RMC	Measurement 35: Flat Plane with Front(Body-worn) device position on Low Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 36: Right Head with Cheek device position on High Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 37: Right Head with Tilt device position on High Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 38: Left Head with Cheek device position on High Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 39: Left Head with Tilt device position on High Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 40: Flat Plane with Back device position on High Channel in WCDMA mode
Phone	WCDMA1900_RMC	Measurement 41: Flat Plane with Front device position on High Channel in WCDMA mode

DI.	WCDMA 1000 DMC	Measurement 42: Flat Plane with Bottom side device	
Phone	WCDMA1900_RMC	position on High Channel in WCDMA mode	
Dhama	WCDMA1000 DMC	Measurement 43: Flat Plane with Right side device	
Phone	WCDMA1900_RMC	position on High Channel in WCDMA mode	
Phone	WCDMA1900_RMC	Measurement 44: Flat Plane with Left side device	
1 Hone	WCDMA1900_RMC	position on High Channel in WCDMA mode	
Phone	WCDMA1900_RMC	Measurement 45: Flat Plane with Back(Body-worn)	
1 Hone	Weblandou_kivie	device position on High Channel in WCDMA mode	
Phone	WCDMA1900_RMC	Measurement 46: Flat Plane with Front(Body-worn)	
	**************************************	device position on High Channel in WCDMA mode	
Tablet	WiFi_802.11b	Measurement 47: Right Head with Cheek device	
		position on Middle Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 48: Right Head with Tilt device position	
		on Middle Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 49: Left Head with Cheek device position	
		on Middle Channel in 802.11b mode Maggarament 50: Left Head with Tilt device position	
Tablet	WiFi_802.11b	Measurement 50: Left Head with Tilt device position on Middle Channel in 802.11b mode	
		Measurement 51: Left Head with Tilt device position	
Tablet	WiFi_802.11b	on Low Channel in 802.11b mode	
		Measurement 52: Left Head with Tilt device position	
Tablet	WiFi_802.11b	on High Channel in 802.11b mode	
TD 11.4	11/15' 000 111	Measurement 53: Flat Plane with Back side device	
Tablet	WiFi_802.11b	position on Middle Channel in 802.11b mode	
Tablet	W:E: 002 11b	Measurement 54: Flat Plane with Front side device	
Tablet	WiFi_802.11b	position on Middle Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 55: Flat Plane with Right side device	
Tablet	VVIII_002.11D	position on Middle Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 56: Flat Plane with Top side device	
Lubict	,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	position on Middle Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 57: Flat Plane with Back side device	
		position on Low Channel in 802.11b mode	
Tablet	WiFi_802.11b	Measurement 58: Flat Plane with Back side device	
	_	position on High Channel in 802.11b mode	

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Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

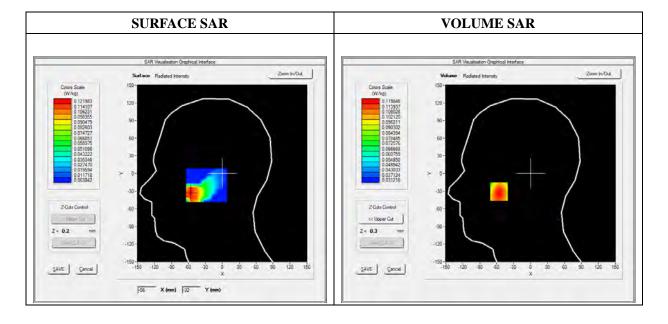
Measurement duration: 12 minutes 3 seconds

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	Duty Cycle 1:8.3		

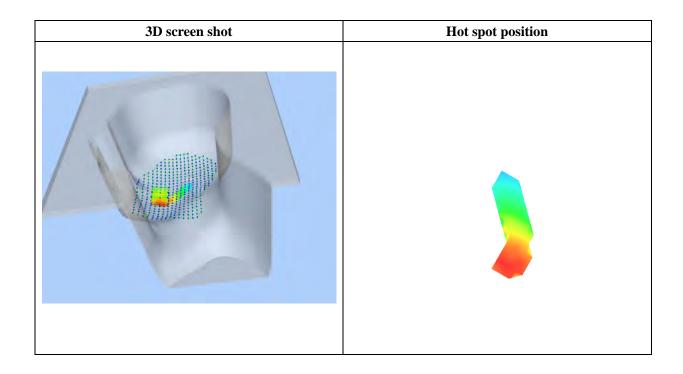
Frequency (MHz)	824.200000	
Relative Permittivity (real part)	41.110245	
Conductivity (S/m)	0.871245	
Power Variation (%)	1.814580	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-56.00, Y=-31.00

SAR 10g (W/Kg)	0.087061	
SAR 1g (W/Kg)	0.115305	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1198	0.0965	0.0781	0.0635
	0.12-				
	0.11-				
	0.10-				
	= 0.10 = 0.00				
	-80.0 WK				
	0.07-				
	0.06-		- - - - 		
	0.05-	F0 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 22.0 25.0	



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

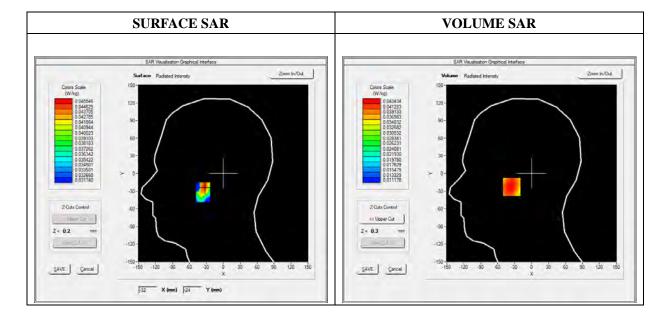
Measurement duration: 12 minutes 3 seconds

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	Duty Cycle 1:8.3		

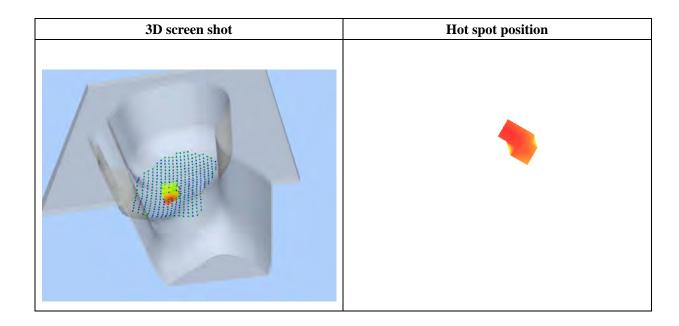
Frequency (MHz)	824.200000	
Relative Permittivity (real part)	41.110245	
Conductivity (S/m)	0.871245	
Power Variation (%)	1.814580	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-33.00, Y=-23.00

SAR 10g (W/Kg)	0.032800	
SAR 1g (W/Kg)	0.042139	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0434	0.0351	0.0287	0.0239
	0.043-				
	0.040-	\longrightarrow			
	- 0.035	+			
	O.035- W.K 0.030-		\longrightarrow		
	0.025		+		
	0.020 - 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: 09/22/2014

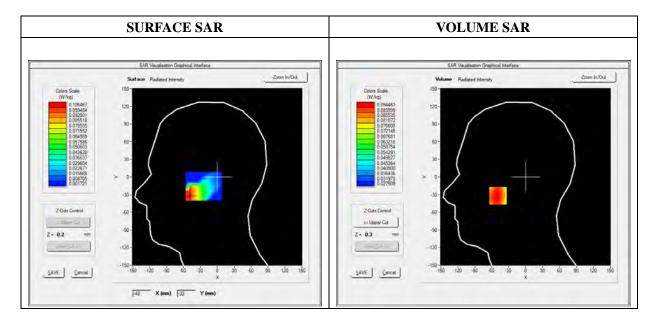
Measurement duration: 11 minutes 48 seconds

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	Duty Cycle 1:8.3		

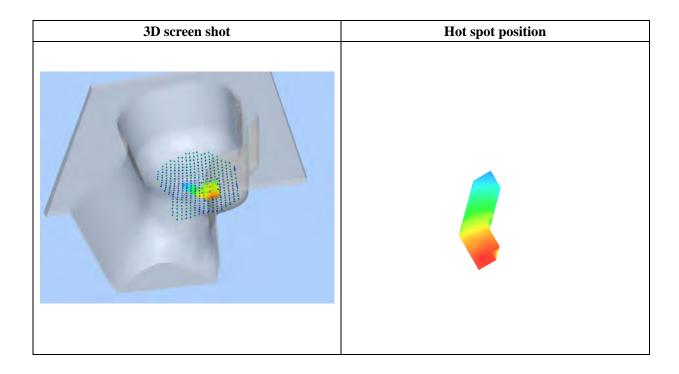
Frequency (MHz)	824.200000	
Relative Permittivity (real part)	41.110245	
Conductivity (S/m)	0.871245	
Power Variation (%)	1.814580	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-49.00, Y=-32.00

SAR 10g (W/Kg)	0.074613	
SAR 1g (W/Kg)	0.092626	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0945	0.0838	0.0717	0.0588
	0.09 -				
	_ 0.08-	+			
	0.08 - 0.07 -		\rightarrow		
	S 0.06−		++		
	0.05-				
	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: 09/22/2014

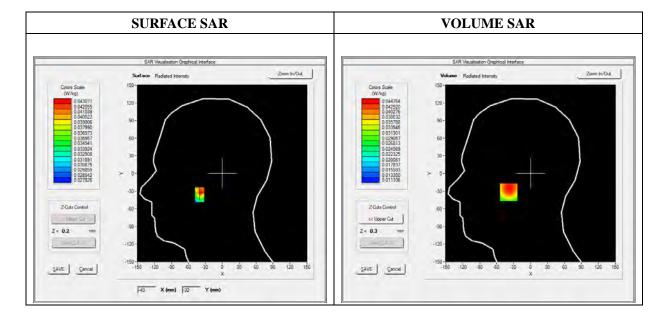
Measurement duration: 12 minutes 3 seconds

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	Duty Cycle 1:8.3	

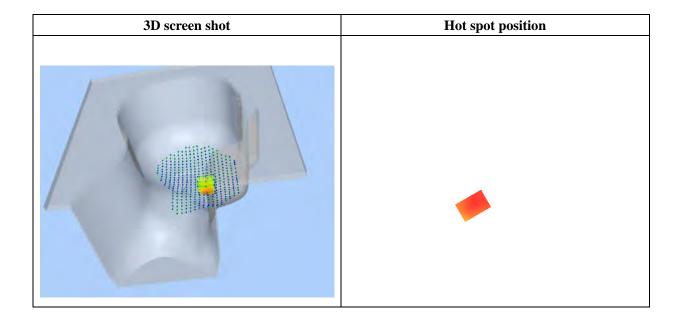
Frequency (MHz)	824.200000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-38.00, Y=-32.00

SAR 10g (W/Kg)	0.033437
SAR 1g (W/Kg)	0.043550

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0434	0.0344	0.0280	0.0233
	0.043-				
	0.040-	\rightarrow			
	₩ 0.035-				
	SAB (W/K		$\downarrow \downarrow \downarrow$		
	0.025		+		
	0.020 -	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: 09/22/2014

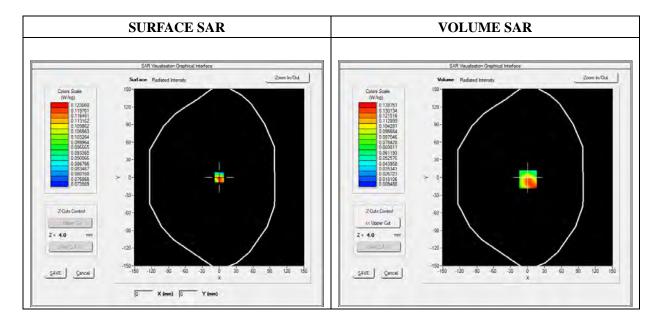
Measurement duration: 12 minutes 3 seconds

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	GSM850		
Channels	Low		
Signal	Duty Cycle 1:8.3		

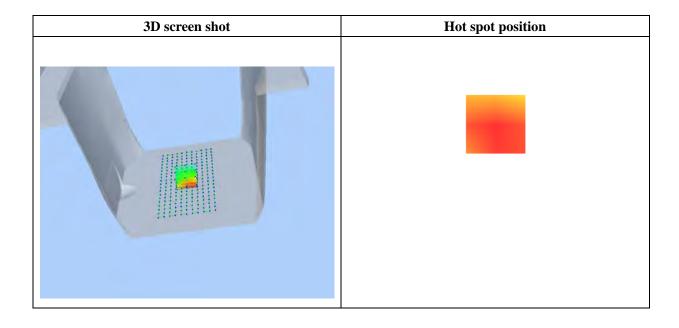
Frequency (MHz)	824.200000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



 $Maximum\ location:\ X{=}1.00,\ Y{=}{-}3.00$

SAR 10g (W/Kg)	0.102701
SAR 1g (W/Kg)	0.158894

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1275	0.0838	0.0548	0.0358
	0.13-				
	0.10-	+ $+$ $+$			
	-80.0 % -80.0 %				
	§ 0.00-				
	న్ 0.06-				
	0.04-				
	0.02-	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: 09/22/2014

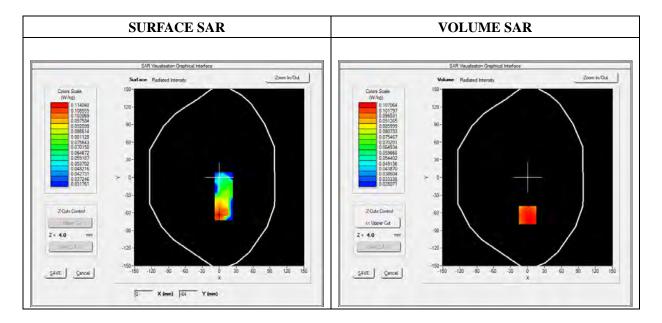
Measurement duration: 12 minutes 3 seconds

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	GSM850	
Channels	Low	
Signal	Duty Cycle 1:8.3	

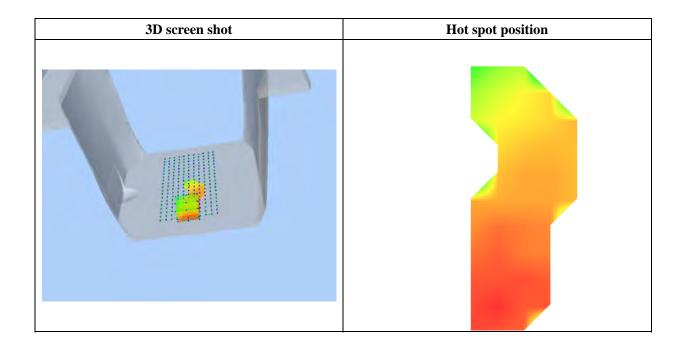
Frequency (MHz)	824.200000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=-64.00

SAR 10g (W/Kg)	0.102937
SAR 1g (W/Kg)	0.135265

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1062	0.0845	0.0668	0.0522
	0.11- 0.10- 0.09- 0.08- WW 0.07- 0.06- 0.05- 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: 09/22/2014

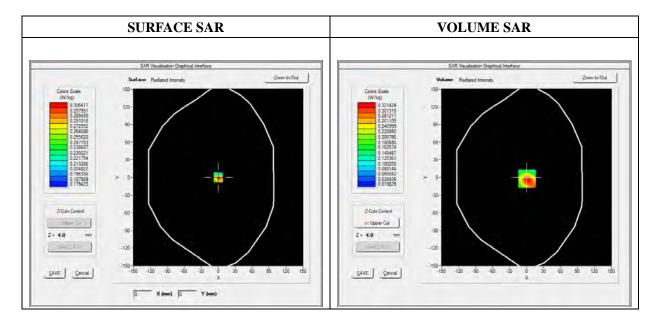
Measurement duration: 12 minutes 3 seconds

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	GPRS850_4TX	
Channels	High	
Signal	Duty Cycle 1:2	

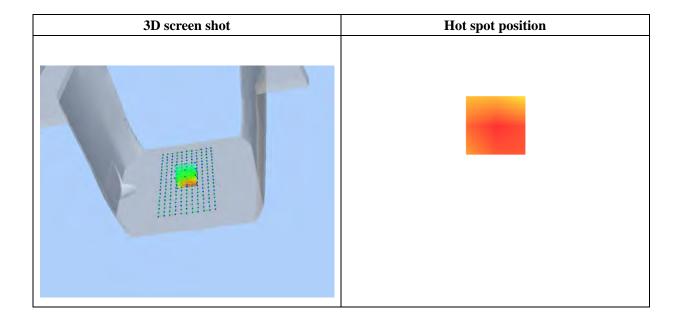
Frequency (MHz)	824.200000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



 $Maximum\ location:\ X{=}1.00,\ Y{=}{-}2.00$

SAR 10g (W/Kg)	0.177240
SAR 1g (W/Kg)	0.302289

0.0000				19.00
0.0000	0.3202	0.1915	0.1171	0.0756
0.32-				
	$\overline{}$			
0.25-				
§ 0.20-	++			
5 0 15-				
0.10				
0.05-				
0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
		Z (mm)		
	0.32- 0.25- 0.20- 0.15- 0.10- 0.05-	0.32- 0.25- 0.20- 0.10- 0.05- 0.0 2.5 5.0 7.5 10.0	0.32- 0.25- 0.20- 0.15- 0.10- 0.05-	0.32- 0.25- 0.15- 0.10- 0.05- 0.00 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: 09/22/2014

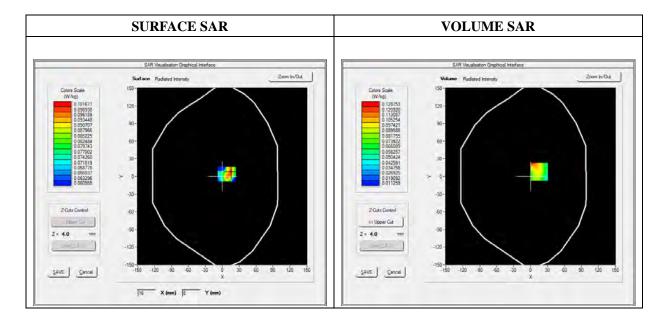
Measurement duration: 12 minutes 3 seconds

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	GPRS850_4TX	
Channels	High	
Signal	Duty Cycle 1:2	

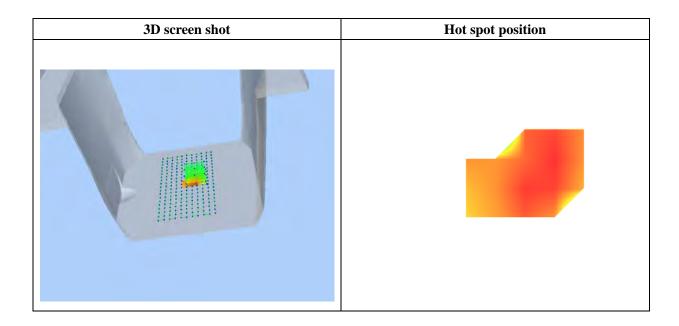
Frequency (MHz)	824.200000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=15.00, Y=8.00

SAR 10g (W/Kg)	0.061780	
SAR 1g (W/Kg)	0.105287	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	(W/Kg) 0.0000	R (W/Kg) 0.0000 0.0988	0.0614	0.0390	0.0260
	0.10- 0.09- 0.08- 0.07- 0.06- 0.05- 0.04- 0.03- 0.02- 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: 09/22/2014

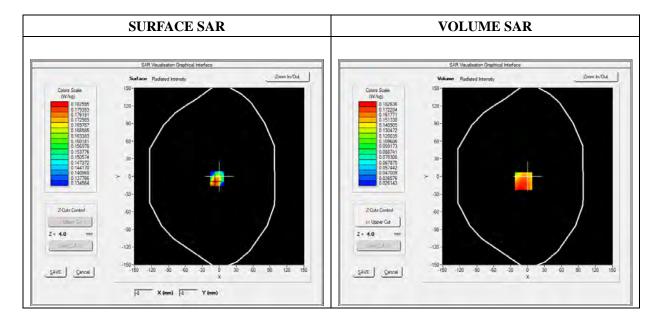
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:2	

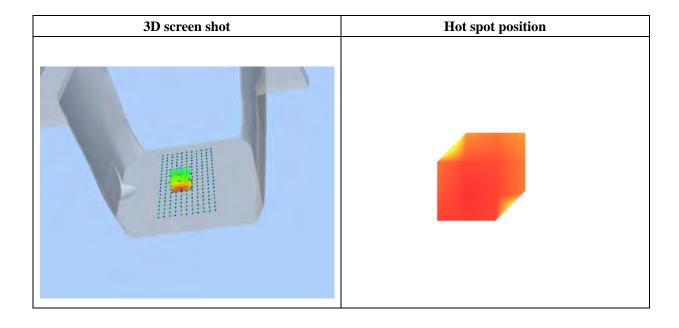
Frequency (MHz)	824.200000		
Relative Permittivity (real part)	54.851214		
Conductivity (S/m)	0.951454		
Power Variation (%)	0.901472		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-7.00, Y=-8.00

SAR 10g (W/Kg)	0.122123		
SAR 1g (W/Kg)	0.173657		

0.00	4.00	9.00	14.00	19.00
0.0000	0.1733	0.1250	0.0900	0.0648
0.17- 0.16- 0.14- 0.12- 0.10- 0.08- 0.06- 0.05- 0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5		
	0.17- 0.16- 0.14- 0.12- 0.08- 0.08- 0.06- 0.05-	0.17- 0.16- 0.14- 0.10- 0.08- 0.06- 0.05- 0.0 2.5 5.0 7.5 10.0	0.17- 0.16- 0.14- 0.12- 0.10- 0.08- 0.06- 0.05-	0.17- 0.16- 0.14- 0.10- 0.08- 0.06- 0.05- 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: 09/22/2014

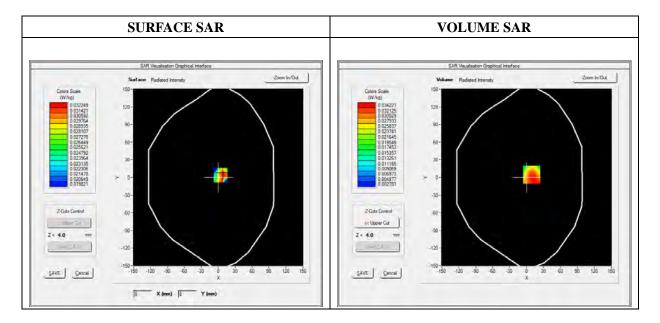
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:2	

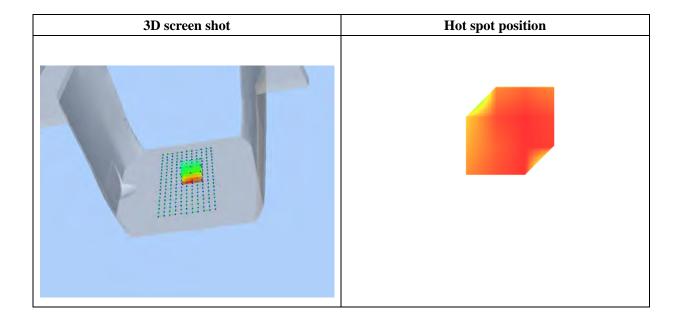
Frequency (MHz)	824.200000		
Relative Permittivity (real part)	54.851214		
Conductivity (S/m)	0.951454		
Power Variation (%)	0.901472		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=9.00, Y=5.00

SAR 10g (W/Kg)	0.020889		
SAR 1g (W/Kg)	0.032791		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0334	0.0204	0.0127	0.0082
	0.033-				
	0.030-	\longrightarrow	\rightarrow		
	0.025				
	0.025-				
	₹ 0.020-	$\overline{}$			
	0.020 W 0.015				
	0.010-				
	0.005		105 450 475	22.2 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	
			~ v,		



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

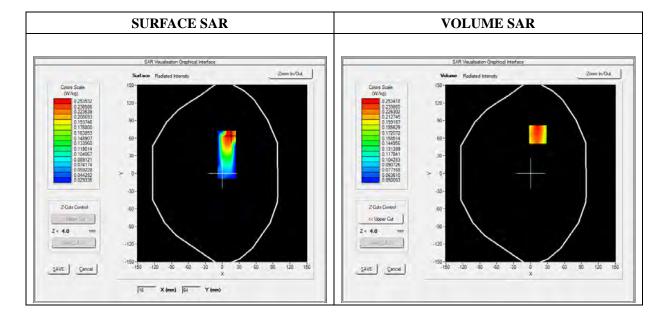
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:2	

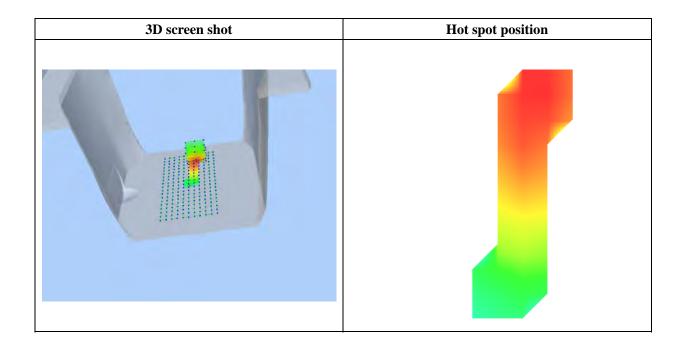
Frequency (MHz)	824.200000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=13.00, Y=66.00

SAR 10g (W/Kg)	0.162113	
SAR 1g (W/Kg)	0.238939	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2418	0.1734	0.1255	0.0919
	0.242-				
	0.225-				
	0.200-	\longrightarrow			
	☑ 0.175-				
	≷ _{0.150}				
	0.175- 0.150- 0.125-				
	0.100-				
	0.066				
	0.0 2.	5 5.0 7.5 10.0		20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

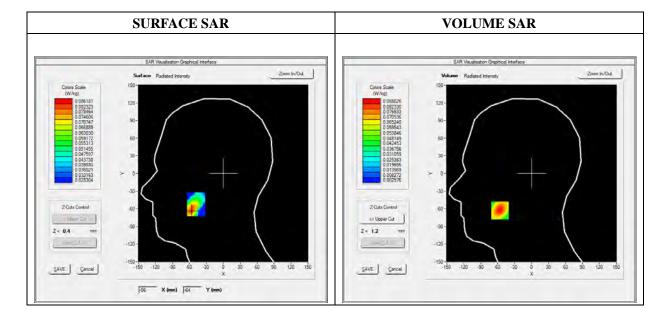
Measurement duration: 12 minutes 3 seconds

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	Middle	
Signal	Duty Cycle 1:8.3	

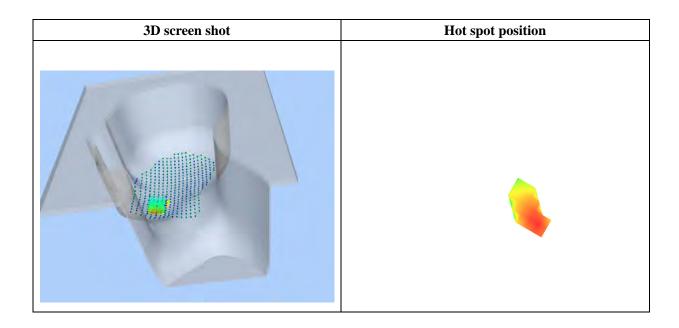
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-56.00, Y=-63.00

SAR 10g (W/Kg)	0.043077
SAR 1g (W/Kg)	0.082493

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0880	0.0429	0.0210	0.0114
	0.09 - 0.08 - 0.07 - 0.06 - W 0.05 - 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: 09/22/2014

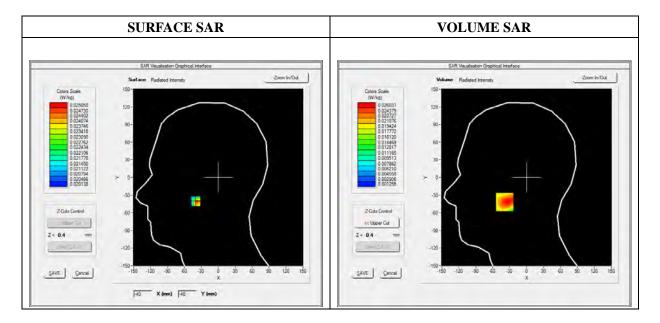
Measurement duration: 12 minutes 3 seconds

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	Middle	
Signal	Duty Cycle 1:8.3	

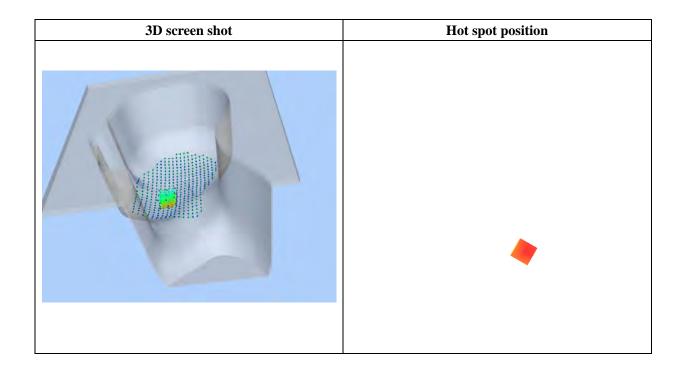
Frequency (MHz)	1909.800000	
Relative Permittivity (real part)	38.560124	
Conductivity (S/m)	1.380369	
Power Variation (%)	1.022540	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-38.00, Y=-42.00

SAR 10g (W/Kg)	0.013690	
SAR 1g (W/Kg)	0.024688	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0256	0.0130	0.0068	0.0040
SAR (W/Ng)	0.026- 0.020- W 0.015- W 0.010- 0.005- 0.002-				0.0040
	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: 09/22/2014

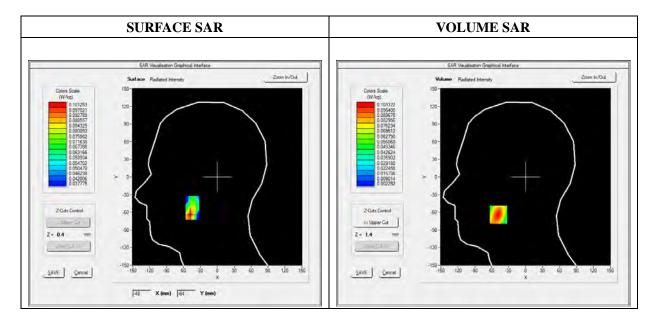
Measurement duration: 11 minutes 48 seconds

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	Middle	
Signal	Duty Cycle 1:8.3	

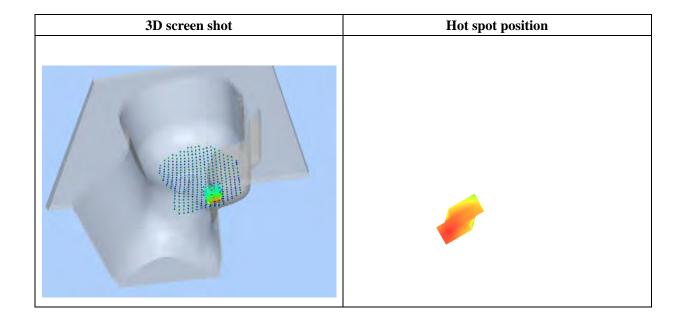
Frequency (MHz)	1909.800000	
Relative Permittivity (real part)	38.560124	
Conductivity (S/m)	1.380369	
Power Variation (%)	1.022540	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-48.00, Y=-64.00

SAR 10g (W/Kg)	0.051373
SAR 1g (W/Kg)	0.095672

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1031	0.0551	0.0293	0.0162
	0.10- 0.08- WW 0.06- 0.02- 0.01- 0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)		
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

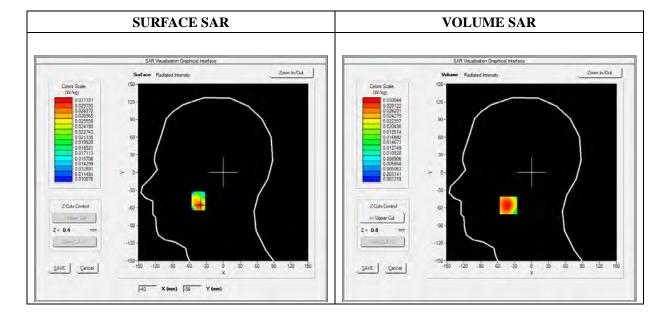
Measurement duration: 12 minutes 3 seconds

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	Middle	
Signal	Duty Cycle 1:8.3	

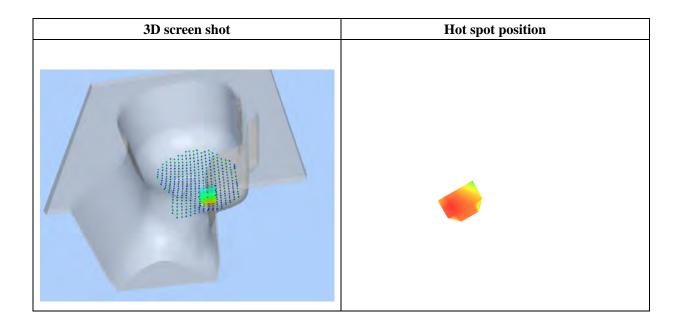
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-41.00, Y=-56.00

SAR 10g (W/Kg)	0.016137	
SAR 1g (W/Kg)	0.028555	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0300	0.0161	0.0088	0.0052
	0.030-				
	0.025-	\square			
	₹ 0.020-	\longrightarrow			
	O.020	\longrightarrow			
	0.010-		\mathcal{H}		
	0.003				
	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: 09/22/2014

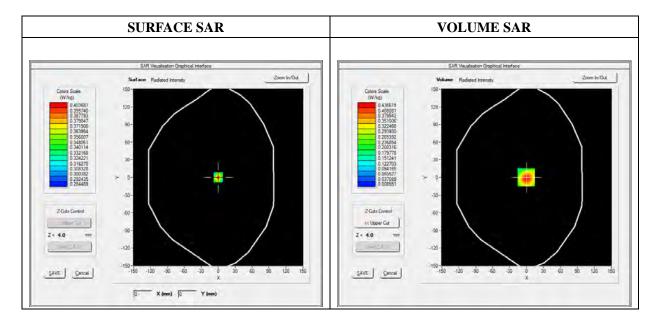
Measurement duration: 12 minutes 3 seconds

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	Middle	
Signal	Duty Cycle 1:8.3	

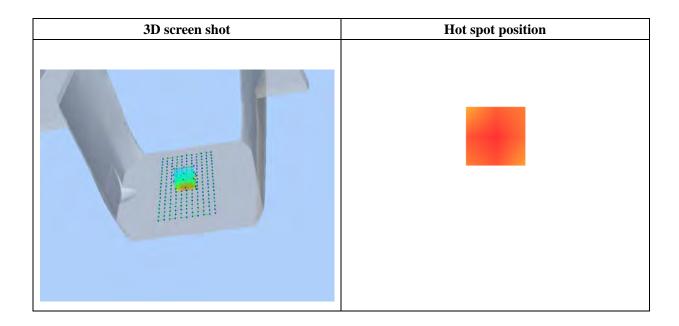
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-1.00, Y=0.00

SAR 10g (W/Kg)	0.241846	
SAR 1g (W/Kg)	0.500193	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	R (W/Kg) 0.0000	Kg) 0.0000 0.4366 0	0.1800	0.0730	0.0348
	0.44- 0.40- 0.35- 0.30- 0.30- 0.25- 0.15- 0.10- 0.02- 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: 09/22/2014

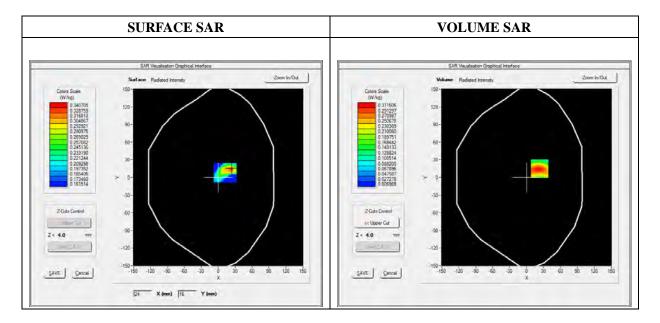
Measurement duration: 12 minutes 3 seconds

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	Middle	
Signal	Duty Cycle 1:8.3	

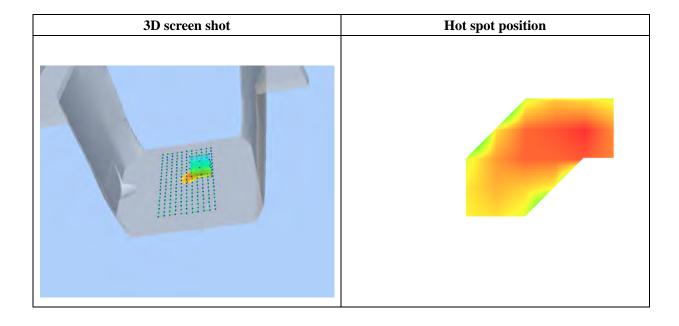
Frequency (MHz)	1909.800000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=23.00, Y=15.00

SAR 10g (W/Kg)	0.184563	
SAR 1g (W/Kg)	0.352551	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3116	0.1622	0.0809	0.0392
	0.31-				
	0.25-	$\overline{}$			
	₩ 0.20-				
	B 0.20- (M) 0.15-				
	단 0.15-				
	0.10-		\rightarrow		
	0.05				
	0.05				
	0.02- 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: 09/22/2014

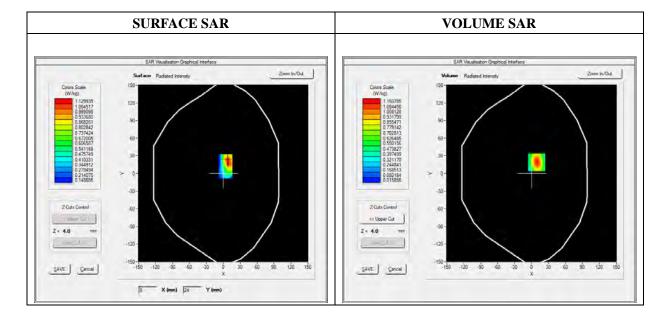
Measurement duration: 12 minutes 3 seconds

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 1:2	

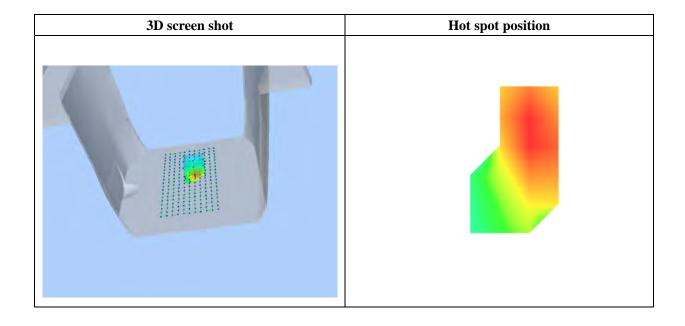
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=9.00, Y=19.00

SAR 10g (W/Kg)	0.499694	
SAR 1g (W/Kg)	1.063491	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	1.1608	0.5186	0.2243	0.1036
	1.2-				
	1.0-	\rightarrow			
	- 0.8 -				
	≥ 0.6-	$+$ \wedge $+$			
	-8.0 (%) WKg -6.0 (%) WKg -8.0 (%)				
	0.4		\mathbf{A}		
	0.2-			_	
	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 22.5 25.0	
			_ v,		



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

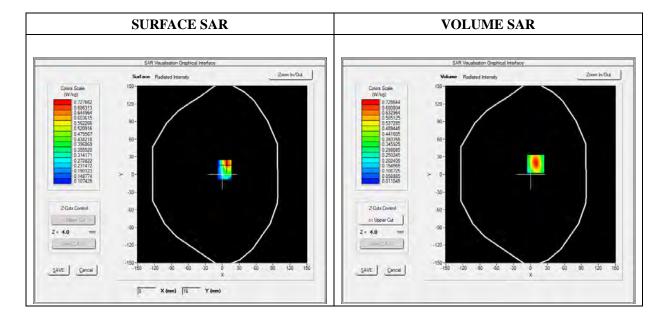
Measurement duration: 12 minutes 3 seconds

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 side	
Band	GPRS1900_4TX	
Channels	Low	
Signal	Duty Cycle 1:2	

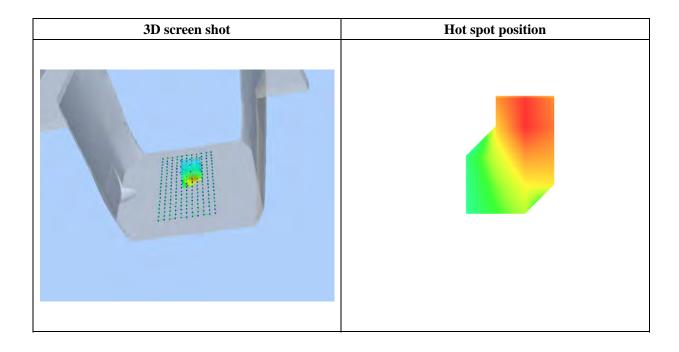
Frequency (MHz)	1850.200000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=9.00, Y=18.00

SAR 10g (W/Kg)	0.320638	
SAR 1g (W/Kg)	0.672289	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.7286	0.3308	0.1464	0.0696
	0.7-				
	0.6				
	_ 0.5-	+			
	₹ 0.4-	$+$ \wedge $+$			
	0.5- W) 0.4- WS 0.3-	++			
	0.2-		+		
	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: 09/22/2014

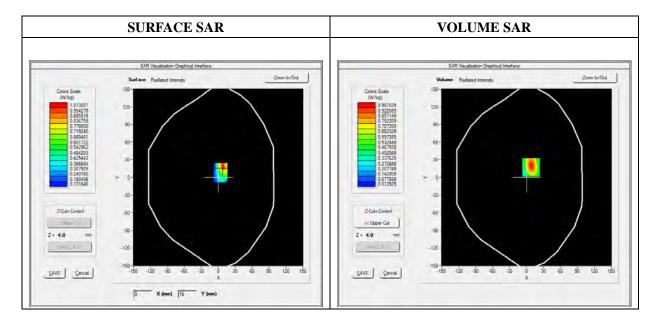
Measurement duration: 12 minutes 3 seconds

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 side	
Band	GPRS1900_4TX	
Channels	Middle	
Signal	Duty Cycle 1:2	

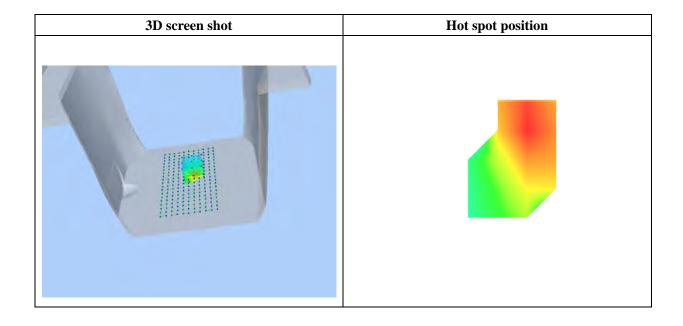
Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=8.00, Y=17.00

SAR 10g (W/Kg)	0.431998	
SAR 1g (W/Kg)	0.916156	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.9799	0.4380	0.1901	0.0888
	1.0-				
		λ			
	-8.0				
	₹ 0.6-				
	2				
	-9.0 GW WW WK WK WK WK WK WK WK WK WK WK WK WK WK W	++	+		
			\downarrow		
	0.2-				
	0.0		105 150 155		
	0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	
			Z (IIIII)		



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

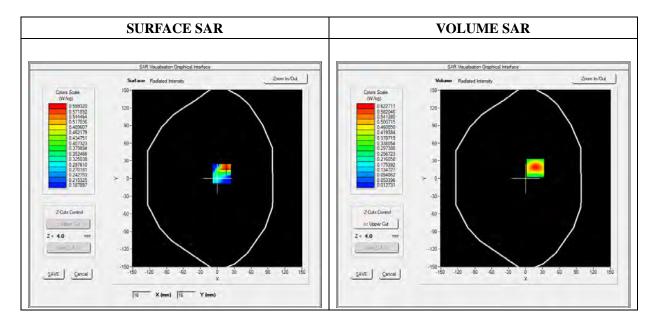
Measurement duration: 12 minutes 3 seconds

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 1:2	

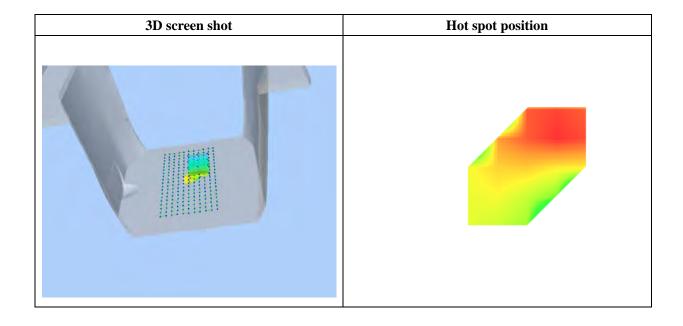
Frequency (MHz)	1909.800000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=17.00, Y=18.00

SAR 10g (W/Kg)	0.279614	
SAR 1g (W/Kg)	0.581951	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.6227	0.2661	0.1108	0.0516
	0.6-				
	0.5	$\overline{}$	+		
	፱ 0.4-	+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$			
	≧				
	0.3- WW W.R	\perp			
	0.2-				
	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: 09/22/2014

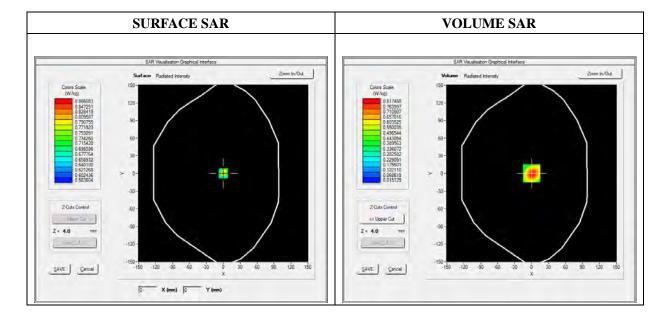
Measurement duration: 12 minutes 3 seconds

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 1:2	

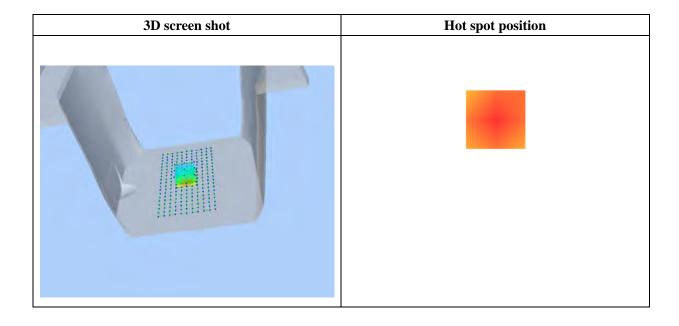
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.374157
SAR 1g (W/Kg)	0.765889

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.8175	0.3556	0.1506	0.0703
	0.8-				
	0.7-				
	0.6-				
	= 0.6 = 0.5				
	0.5- W 0.4- W 0.3-				
	W 0.4				
	0.2-				
	0.1-				
	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: 09/22/2014

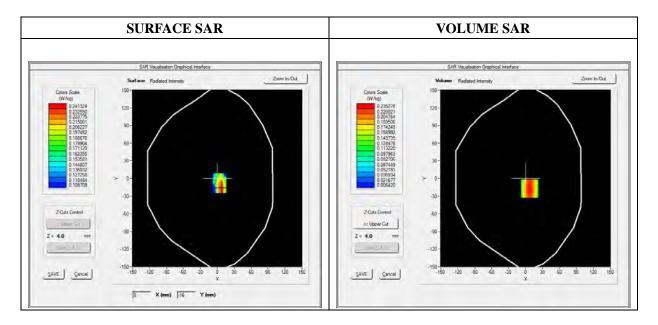
Measurement duration: 12 minutes 3 seconds

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 1:2		

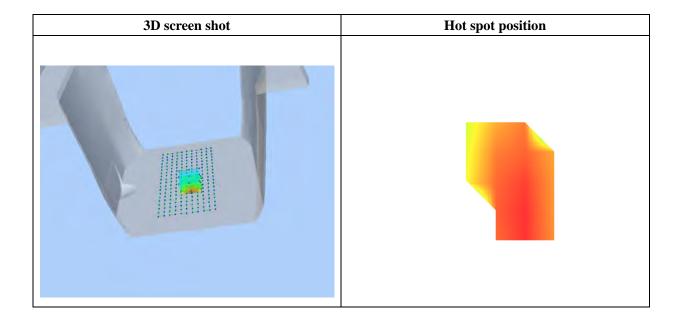
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=-17.00

SAR 10g (W/Kg)	0.113774
SAR 1g (W/Kg)	0.221767

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2353	0.1065	0.0470	0.0223
	0.24- 0.20- W 0.15- W 0.10- 0.05-				
	0.01-		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

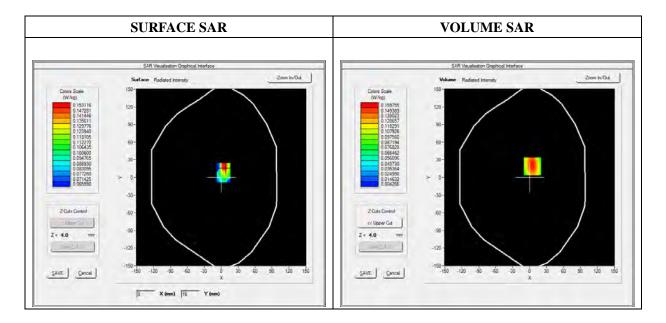
Measurement duration: 12 minutes 3 seconds

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 1:2		

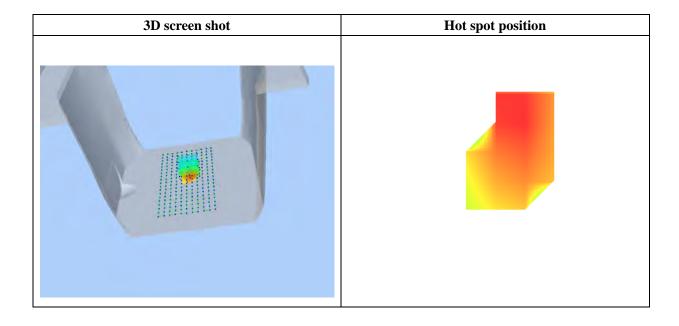
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=5.00, Y=19.00

SAR 10g (W/Kg)	0.076861
SAR 1g (W/Kg)	0.150206

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1598	0.0741	0.0334	0.0158
	0.16- 0.14- 0.12- 0.10- 0.08- 0.08- 0.06- 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: 09/22/2014

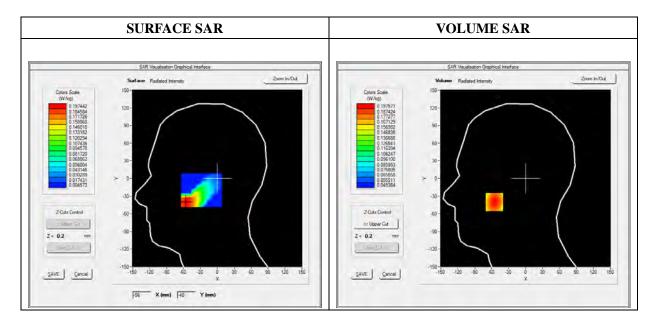
Measurement duration: 12 minutes 3 seconds

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	Low		
Signal	Duty Cycle 1:1		

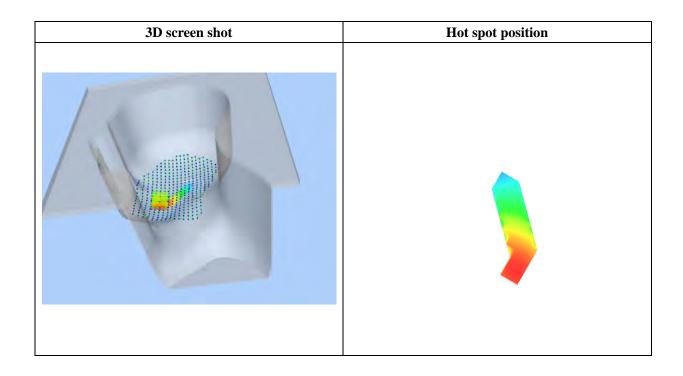
Frequency (MHz)	826.400000	
Relative Permittivity (real part)	41.110245	
Conductivity (S/m)	0.871245	
Power Variation (%)	1.814580	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-55.00, Y=-40.00

SAR 10g (W/Kg)	0.145106	
SAR 1g (W/Kg)	0.190011	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1976	0.1607	0.1300	0.1042
	0.20-				
	0.18-				
	_ 0.16-				
	₹ 0.14-	+	\longrightarrow		
	0.16- BW 0.14- BW 0.12-				
	0.12				
	0.10-		- 		
	0.08-				
	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: 09/22/2014

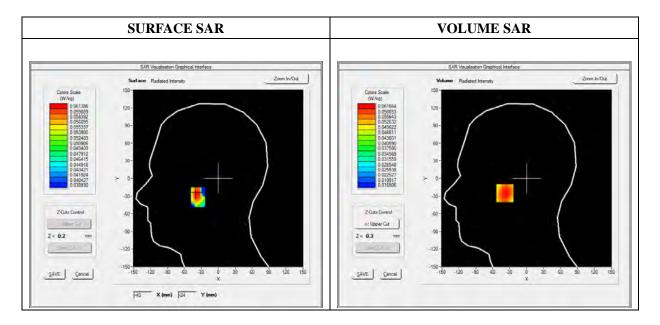
Measurement duration: 12 minutes 3 seconds

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	Low	
Signal	Duty Cycle 1:1	

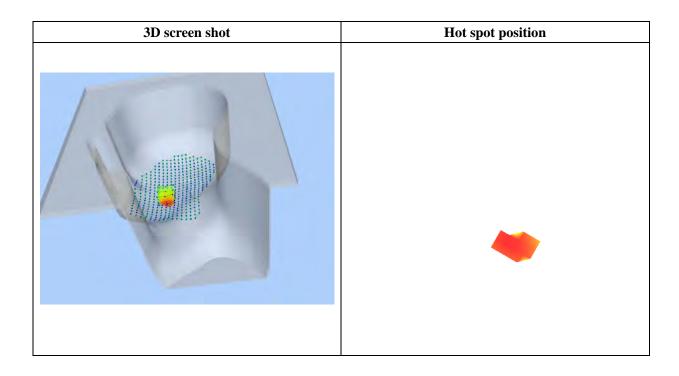
Frequency (MHz)	826.400000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-38.00, Y=-25.00

SAR 10g (W/Kg)	0.044997	
SAR 1g (W/Kg)	0.059465	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0617	0.0483	0.0387	0.0318
	0.062-				
	0.055-	\longrightarrow			
	 0.050 -	$+\lambda$			
	 0.050 ₹ 0.045		+		
	₩ 0.040-		\longrightarrow		
	0.035-				
	0.030-				
	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: 09/22/2014

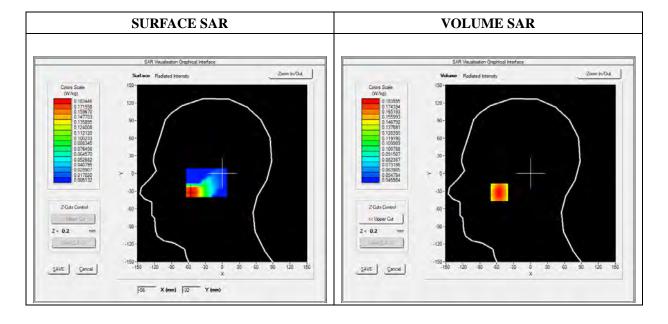
Measurement duration: 12 minutes 3 seconds

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	Low	
Signal	Duty Cycle 1:1	

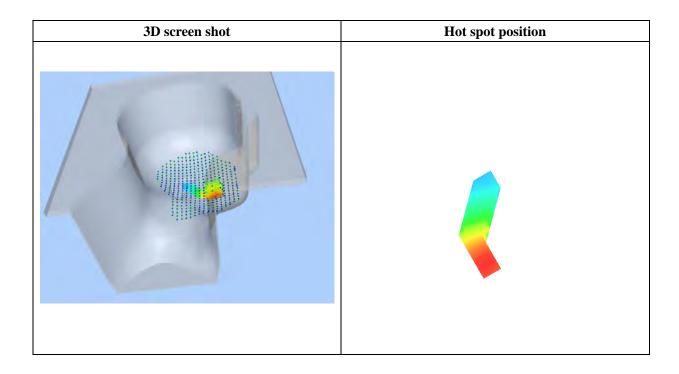
Frequency (MHz)	826.400000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-55.00, Y=-32.00

SAR 10g (W/Kg)	0.135456		
SAR 1g (W/Kg)	0.176472		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1836	0.1505	0.1227	0.0994
23-23 (117 28)	0.18- 0.16- WW 0.14- W 0.12- 0.10-				
	0.08-	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: 09/22/2014

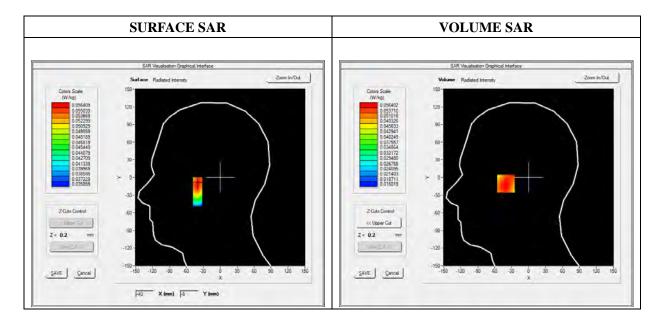
Measurement duration: 12 minutes 3 seconds

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	Low	
Signal	Duty Cycle 1:1	

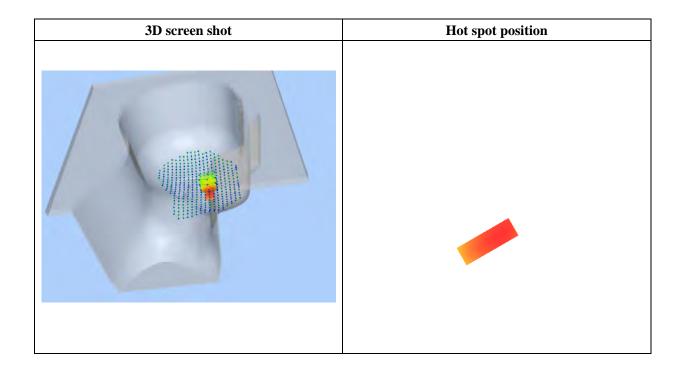
Frequency (MHz)	826.400000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.814580
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-40.00, Y=-10.00

SAR 10g (W/Kg)	0.041658	
SAR 1g (W/Kg)	0.054494	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0564	0.0439	0.0351	0.0289
	0.056				
	0.050-				
	ॼ 0.045-	+			
	0.045- 0.040- WY 0.035-		$\overline{}$		
	ళ 0.035-		$\overline{}$		
	0.030		++		
	0.024 - 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: 09/22/2014

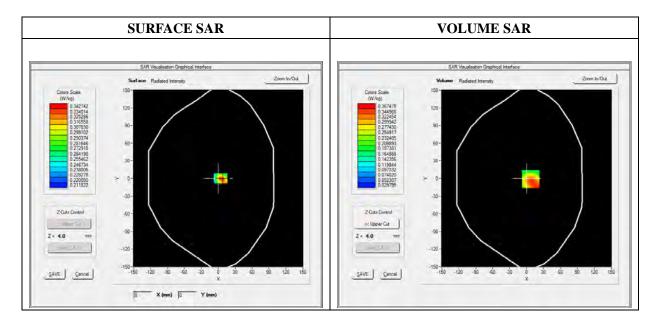
Measurement duration: 12 minutes 3 seconds

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	Low		
Signal	Duty Cycle 1:1		

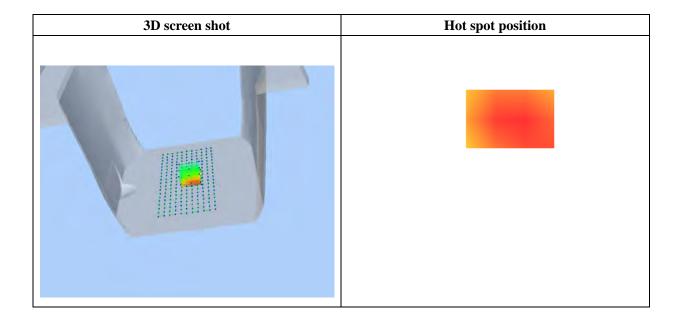
Frequency (MHz)	826.400000	
Relative Permittivity (real part)	54.851214	
Conductivity (S/m)	0.951454	
Power Variation (%)	0.901472	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	0.217191	
SAR 1g (W/Kg)	0.337125	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3423	0.2200	0.1440	0.0976
	0.34-				
	0.30-				
	ੁ 0.25-	+			
	Š n 2n-				
	0.25- W.W. 0.20-				
	0.15-				
	0.10-				
	0.10				
	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: 09/22/2014

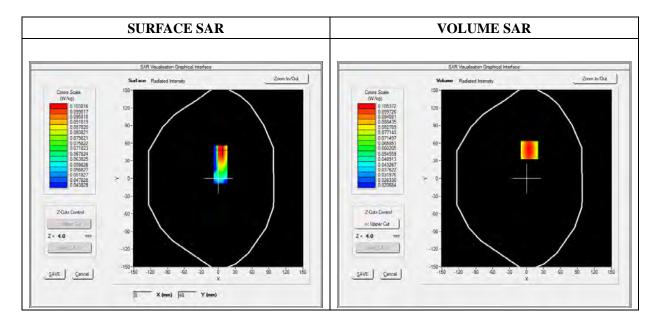
Measurement duration: 12 minutes 3 seconds

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	Low		
Signal	Duty Cycle 1:1		

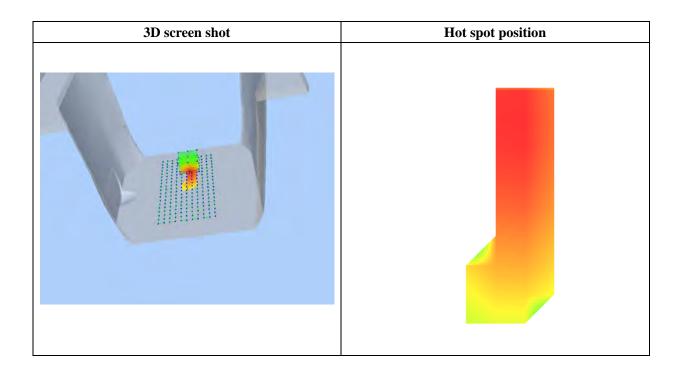
Frequency (MHz)	826.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



 $Maximum\ location:\ X{=}5.00,\ Y{=}48.00$

SAR 10g (W/Kg)	0.067825	
SAR 1g (W/Kg)	0.100098	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1054	0.0731	0.0512	0.0363
	0.11-				
	0.09				
	<u></u>				
	₹ 0.07-				
	0.08 - 0.07 - 0.06 -				
	0.05				
	0.04				
	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: 09/22/2014

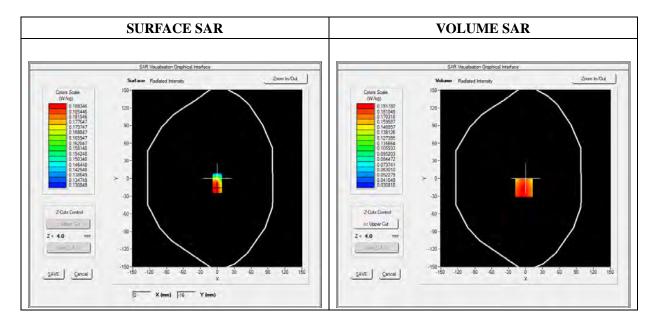
Measurement duration: 12 minutes 3 seconds

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	Low		
Signal	Duty Cycle 1:1		

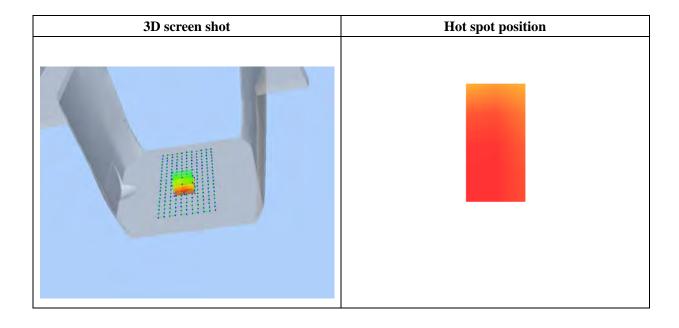
Frequency (MHz)	826.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-3.00, Y=-16.00

SAR 10g (W/Kg)	0.136945	
SAR 1g (W/Kg)	0.185888	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1909	0.1435	0.1070	0.0789
SAR (W/Rg)	0.19- 0.18- 0.16- 0.14- 0.12- 0.10- 0.08- 0.06-				0.0707
	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: 09/22/2014

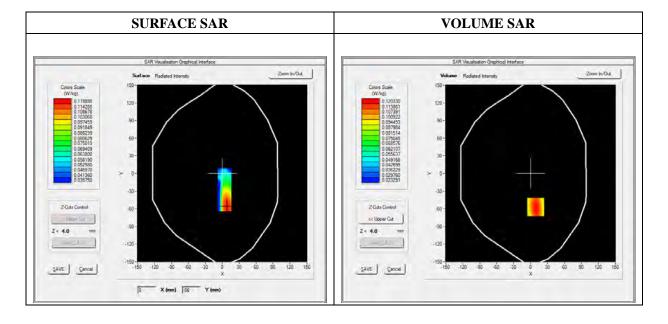
Measurement duration: 12 minutes 3 seconds

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	Low		
Signal	Duty Cycle 1:1		

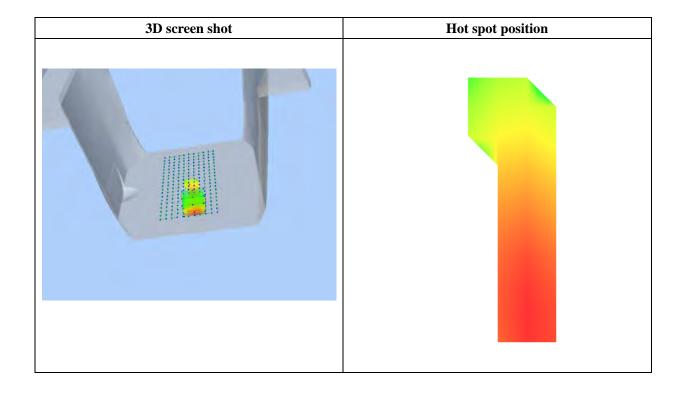
Frequency (MHz)	826.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=9.00, Y=-57.00

SAR 10g (W/Kg)	0.077622	
SAR 1g (W/Kg)	0.114327	

0.0000 0	.1203	0.0834	0.0588	0.0426
0.12-			1	
0.10- 0.08- 0.06- 0.04- 0.03- 0.0 2.5 5.0) 22.5 25.0	
0	.06-	.08- .06- .04- .03- 0.0 2.5 5.0 7.5 10.0 12.5	.08-	.08- .06- .04- .03- 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: 09/22/2014

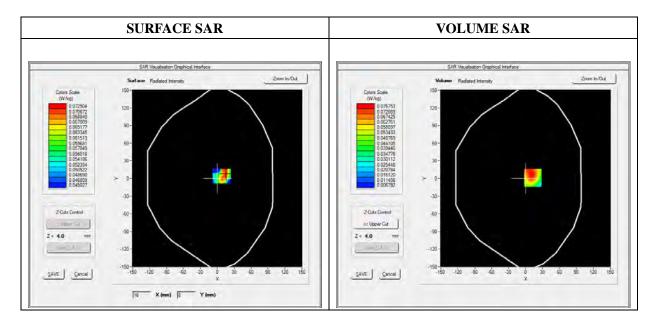
Measurement duration: 12 minutes 3 seconds

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	Low		
Signal	Duty Cycle 1:1		

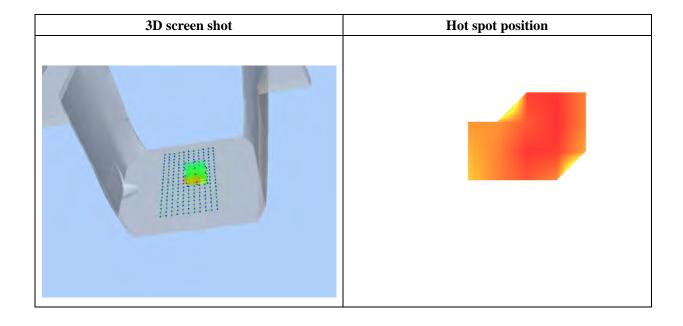
Frequency (MHz)	826.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=13.00, Y=1.00

SAR 10g (W/Kg)	0.044456	
SAR 1g (W/Kg)	0.072768	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0740	0.0463	0.0295	0.0195
	0.07-				
	0.06-	\rightarrow			
	₹ 0.05-				
	§				
	図 0.05 - (0.04 -				
	0.03-				
	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: 09/22/2014

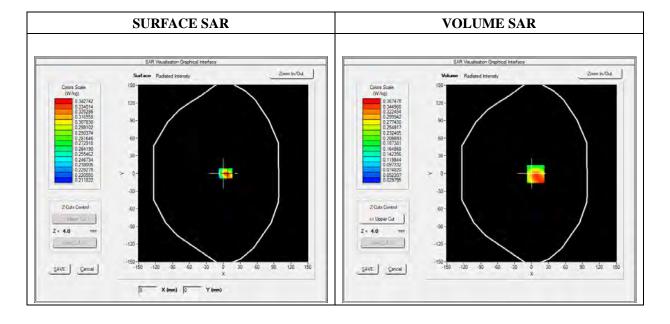
Measurement duration: 12 minutes 3 seconds

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	Low		
Signal	Duty Cycle 1:1		

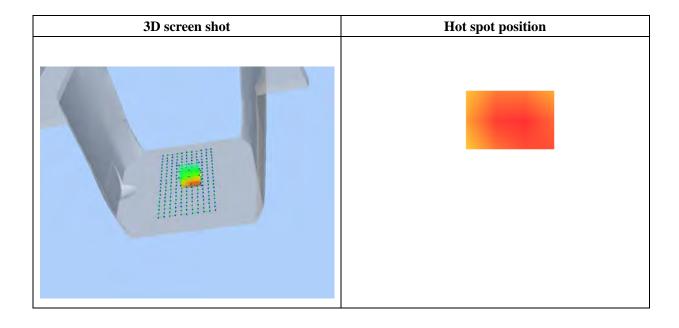
Frequency (MHz)	826.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	0.217121	
SAR 1g (W/Kg)	0.337025	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3411	0.2198	0.1424	0.0952
	0.34-				
	0.30-	\rightarrow			
	₩ 0.25-				
	₹ 0.20-	\rightarrow			
	0.25 - 0.20 - 0.20 - 0.25 - 0.25 - 0.20 - 0.25 - 0.		\setminus		
	0.15				
	0.10-		+		
	0.07-		105 150 175	22.5 25.0	
	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	
			2 pinti)		



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

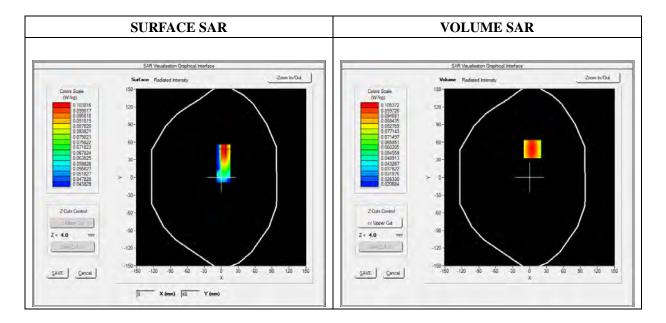
Measurement duration: 12 minutes 3 seconds

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	Low		
Signal	Duty Cycle 1:1		

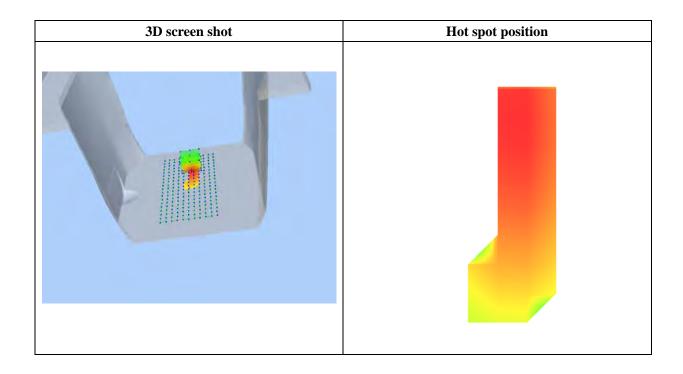
Frequency (MHz)	826.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=5.00, Y=48.00

SAR 10g (W/Kg)	0.067458	
SAR 1g (W/Kg)	0.095756	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1045	0.0716	0.0511	0.0352
	0.11-				
	0.00				
	0.09				
	0.08 - 0.06 - 0.06 - 0.05 - 0.				
	£ 0.06-				
	[∞] 0.05-		\longrightarrow		
	0.04	\rightarrow	+		
	0.02				
	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)		
	0.0 2.5	5.0 7.5 10.0		20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

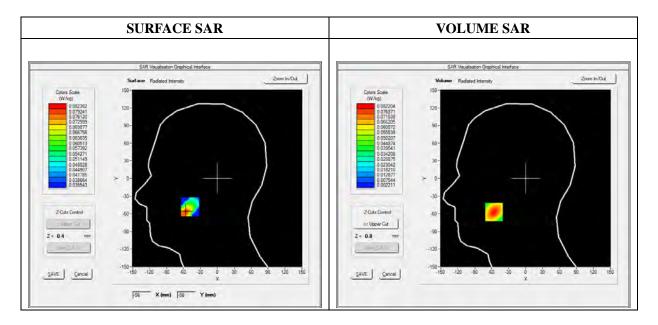
Measurement duration: 12 minutes 3 seconds

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	High		
Signal	Duty Cycle 1:1		

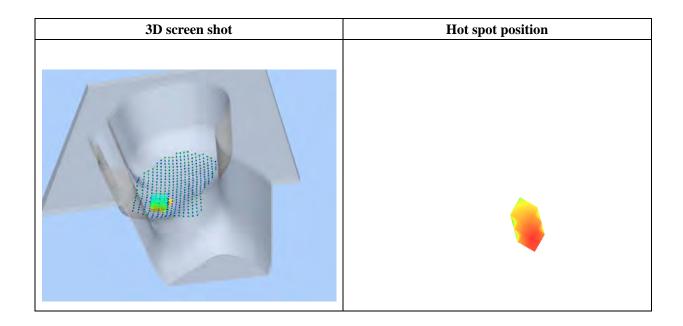
Frequency (MHz)	1907.600000	
Relative Permittivity (real part)	38.560124	
Conductivity (S/m)	1.380369	
Power Variation (%)	1.022540	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-56.00, Y=-57.00

SAR 10g (W/Kg)	0.040406
SAR 1g (W/Kg)	0.076927

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0822	0.0406	0.0197	0.0101
	0.08- 0.07- 0.06- 30.05- 0.04- 0.03- 0.02- 0.01- 0.0 2.5		12.5 15.0 17.5 Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

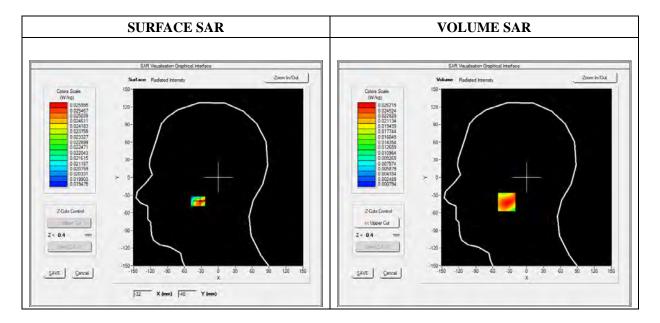
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:1	

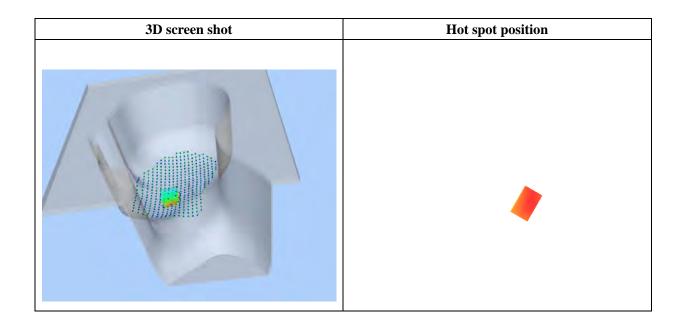
Frequency (MHz)	1907.600000	
Relative Permittivity (real part)	38.560124	
Conductivity (S/m)	1.380369	
Power Variation (%)	1.022540	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-32.00, Y=-42.00

SAR 10g (W/Kg)	0.013479	
SAR 1g (W/Kg)	0.024757	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0262	0.0135	0.0068	0.0035
	0.026-				
	0.020- W 0.015- 0.005- 0.002- 0.00 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: 09/22/2014

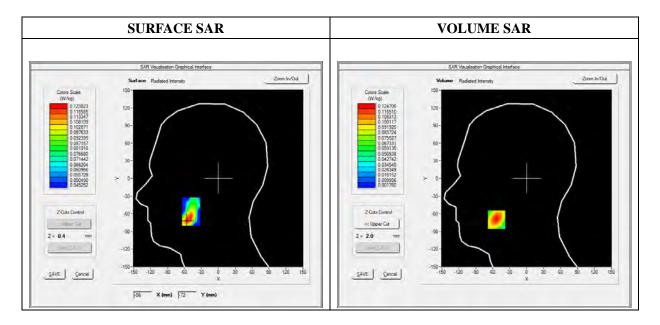
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:1	

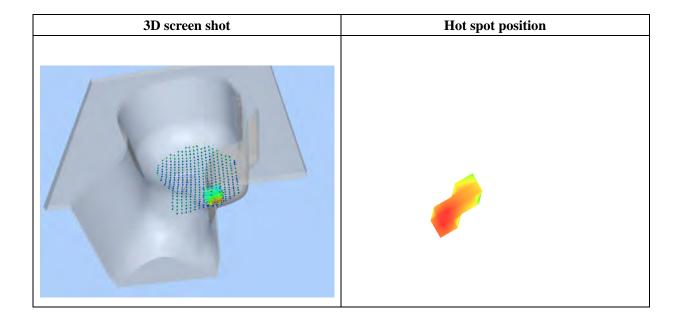
Frequency (MHz)	1907.600000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-53.00, Y=-70.00

SAR 10g (W/Kg)	0.060508		
SAR 1g (W/Kg)	0.116399		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1247	0.0624	0.0311	0.0166
	0.12- 0.10- 9 0.08- WW 0.06- 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: 09/22/2014

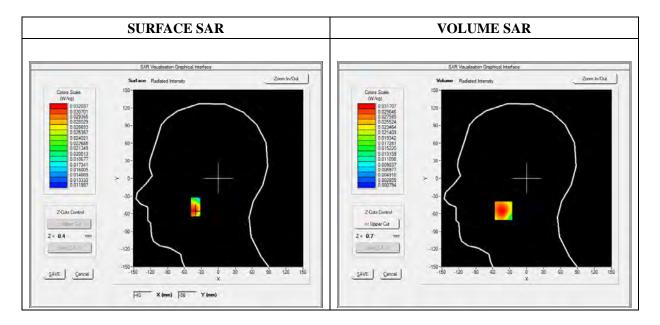
Measurement duration: 12 minutes 3 seconds

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 High		
Signal	Duty Cycle 1:1	

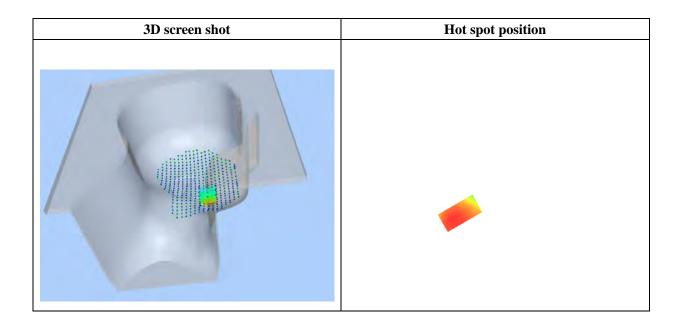
Frequency (MHz)	1907.600000		
Relative Permittivity (real part)	38.560124		
Conductivity (S/m)	1.380369		
Power Variation (%)	1.022540		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



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

SAR 10g (W/Kg)	0.016679	
SAR 1g (W/Kg)	0.030103	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0317	0.0171	0.0089	0.0046
	0.032-				
	0.025- By 0.020- WW 0.015- 0.010- 0.005- 0.002- 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: 09/22/2014

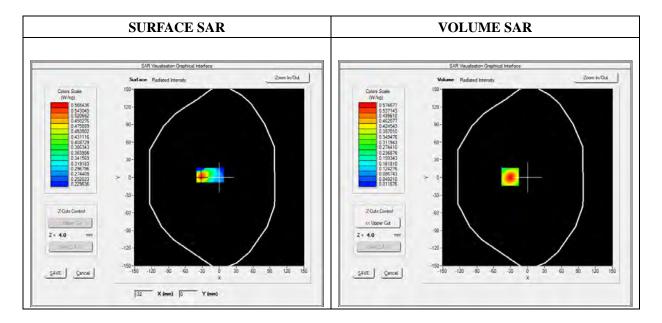
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:1	

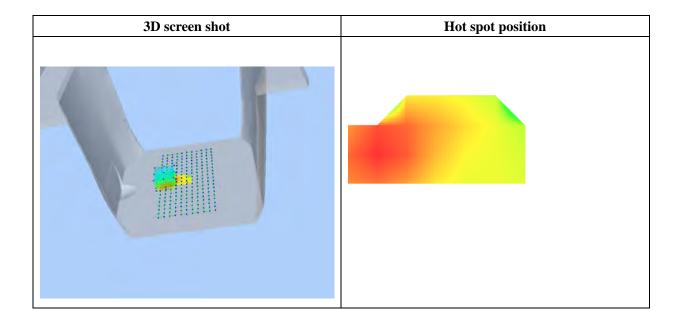
Frequency (MHz)	1907.600000	
Relative Permittivity (real part)	52.420415	
Conductivity (S/m)	1.501966	
Power Variation (%)	0.541872	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-31.00, Y=1.00

SAR 10g (W/Kg)	0.266298	
SAR 1g (W/Kg)	0.534961	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5747	0.2633	0.1172	0.0554
	0.6-				
	0.5-	\rightarrow			
	- 0.4				
	≥ 0.3-	+			
	O.3-				
	0.2				
	0.1-				
	0.0		105 150 175	20.0	
	0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	
			2 (11111)		



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

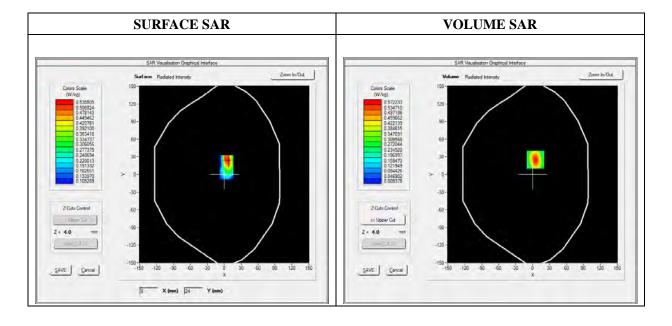
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:1	

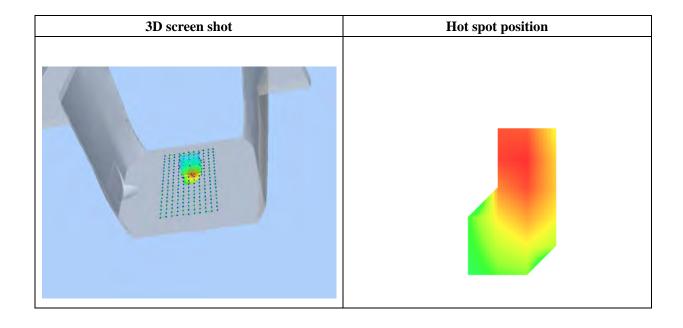
Frequency (MHz)	1907.600000	
Relative Permittivity (real part)	52.420415	
Conductivity (S/m)	1.501966	
Power Variation (%)	0.541872	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=5.00, Y=25.00

SAR 10g (W/Kg)	0.250092	
SAR 1g (W/Kg)	0.523040	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5722	0.2605	0.1156	0.0550
	0.6-				
	0.5-	\rightarrow			
	- 0.4				
	≥ 0.3-	+			
	O.3-				
	0.2-				
	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: 09/22/2014

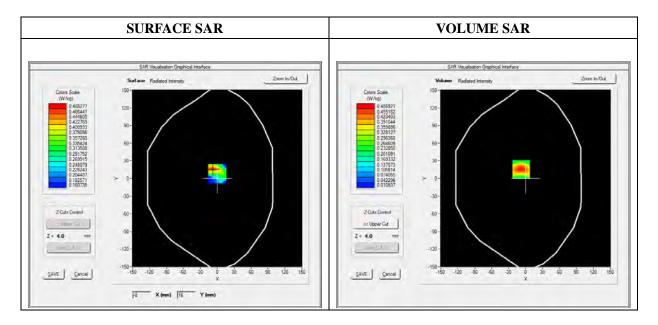
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:1	

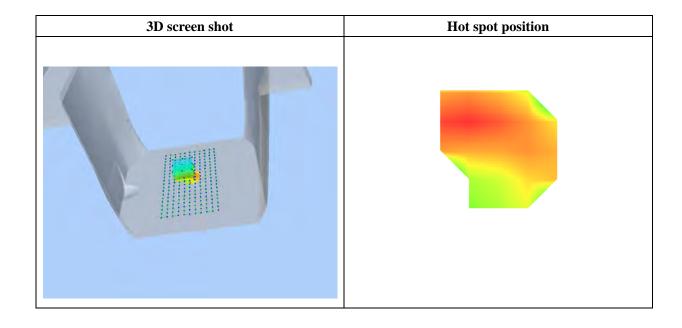
Frequency (MHz)	1907.600000	
Relative Permittivity (real part)	52.420415	
Conductivity (S/m)	1.501966	
Power Variation (%)	0.541872	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-8.00, Y=16.00

SAR 10g (W/Kg)	0.221033	
SAR 1g (W/Kg)	0.449188	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4869	0.2233	0.0998	0.0475
	0.5-				
		λ			
	0.4-				
	₹03-				
	§ "				
	0.3- WK 0.2-	++			
			\mathbf{A}		
	0.1-				
	0.0				
	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: 09/22/2014

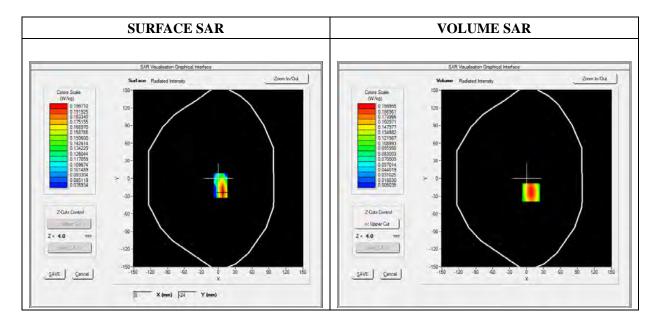
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:1	

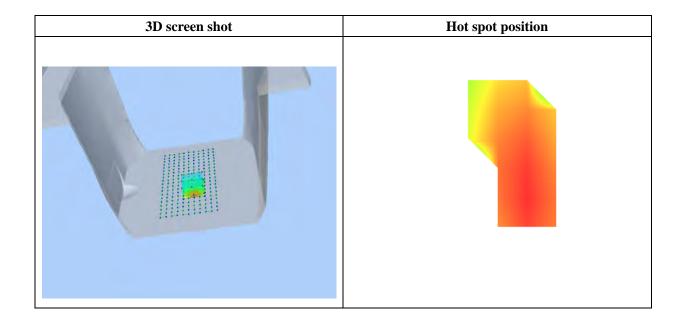
Frequency (MHz)	1907.600000	
Relative Permittivity (real part)	52.420415	
Conductivity (S/m)	1.501966	
Power Variation (%)	0.541872	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=8.00, Y=-24.00

SAR 10g (W/Kg)	0.095137		
SAR 1g (W/Kg)	0.187437		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2000	0.0914	0.0407	0.0192
	0.200-				
	0.175-	\rightarrow			
	0.150-	\rightarrow			
	₹ 0.125-	\longrightarrow	+++		
	0.125- 0.100- 90.075-	\longrightarrow	+++		
	S 0.075-	\rightarrow	+		
	0.050-		\rightarrow		
	0.025		105 450 455		
	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: 09/22/2014

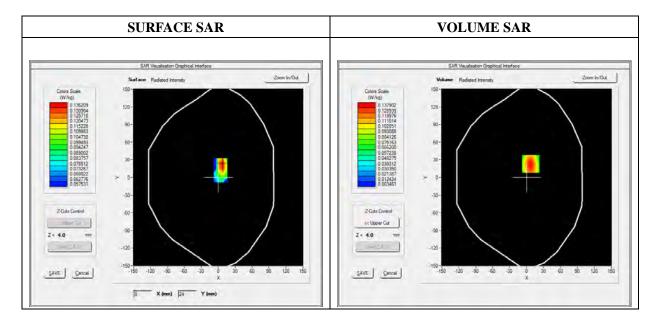
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:1	

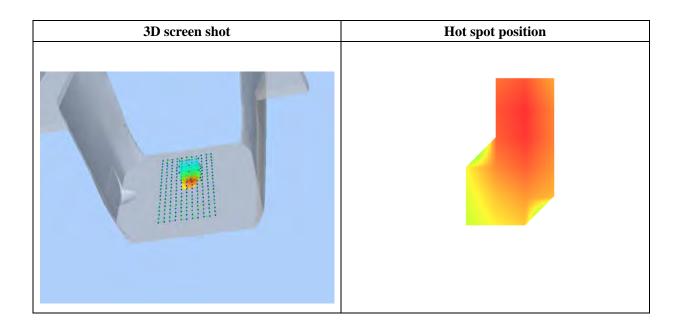
Frequency (MHz)	1907.600000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=7.00, Y=23.00

SAR 10g (W/Kg)	0.066356	
SAR 1g (W/Kg)	0.129140	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1379	0.0646	0.0294	0.0141
	0.14 - 0.12 - 0.10 - 0.08 - 0.06 - 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: 09/22/2014

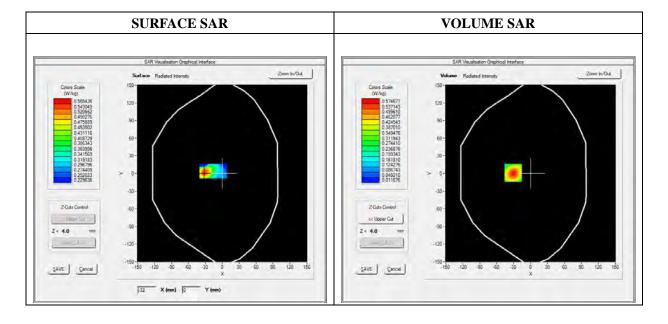
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:1	

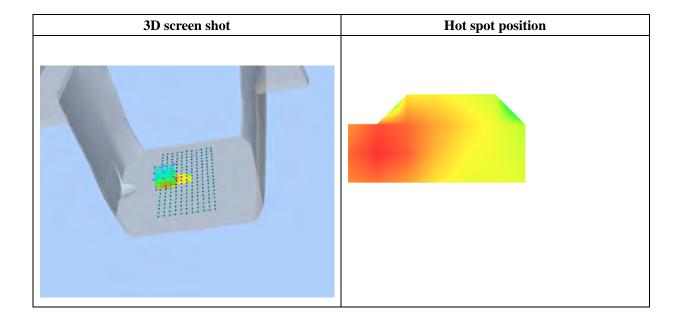
Frequency (MHz)	1907.600000		
Relative Permittivity (real part)	52.420415		
Conductivity (S/m)	1.501966		
Power Variation (%)	0.541872		
Ambient Temperature	21.1		
Liquid Temperature	21.3		



Maximum location: X=-31.00, Y=1.00

SAR 10g (W/Kg)	0.265145	
SAR 1g (W/Kg)	0.534258	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5742	0.2632	0.1152	0.0512
	0.6-				
	0.5-	\rightarrow			
	- 0.4-				
	≥ 0.3-	+++++			
	SAR (WIKgl				
	0.2				
	0.1-			_	
	0.0-	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: 09/22/2014

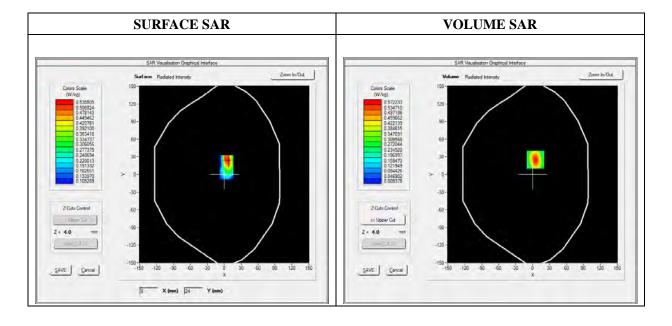
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle 1:1	

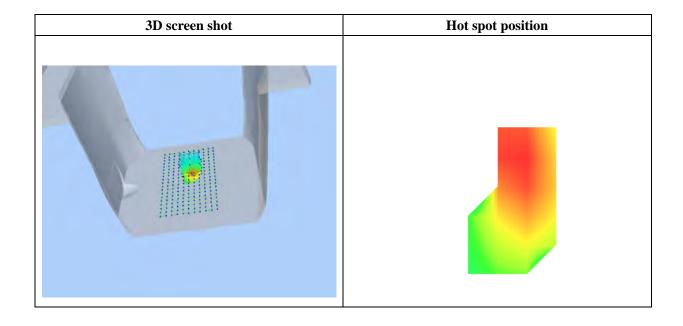
Frequency (MHz)	1907.600000	
Relative Permittivity (real part)	52.420415	
Conductivity (S/m)	1.501966	
Power Variation (%)	0.541872	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=5.00, Y=25.00

SAR 10g (W/Kg)	0.250008	
SAR 1g (W/Kg)	0.523012	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5714	0.2601	0.1125	0.0542
	0.6-				
	0.5-	\rightarrow			
	_ 0.4-				
	≥ 0.3-	+			
	O.3-				
	0.2-				
	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: 09/22/2014

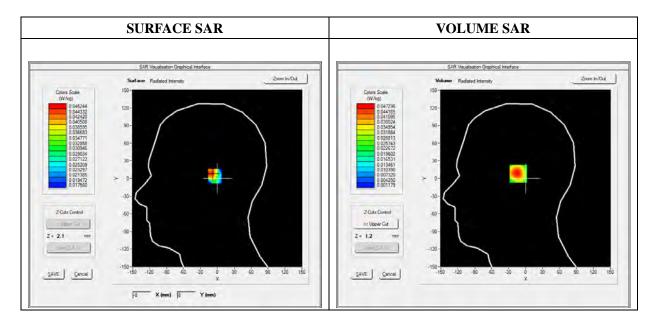
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

A. Experimental conditions

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

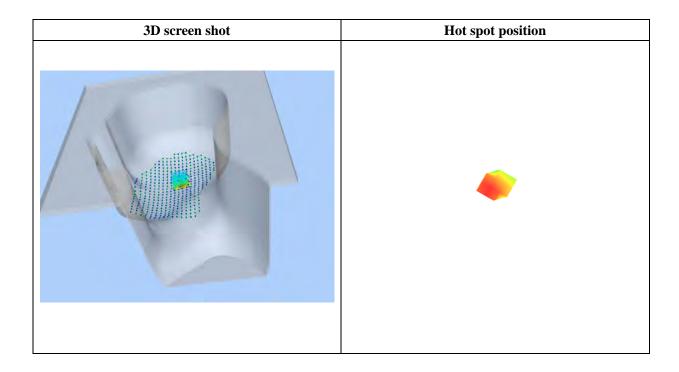
Frequency (MHz)	2442.000000
Relative Permittivity (real part)	38.762140
Conductivity (S/m)	1.781240
Power Variation (%)	1.144120
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-11.00, Y=8.00

SAR 10g (W/Kg)	0.021087	
SAR 1g (W/Kg)	0.045931	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0472	0.0155	0.0047	0.0020
	0.05- 0.04- WW 0.03- WW 0.02- 0.01- 0.00- 0.0 2.0	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

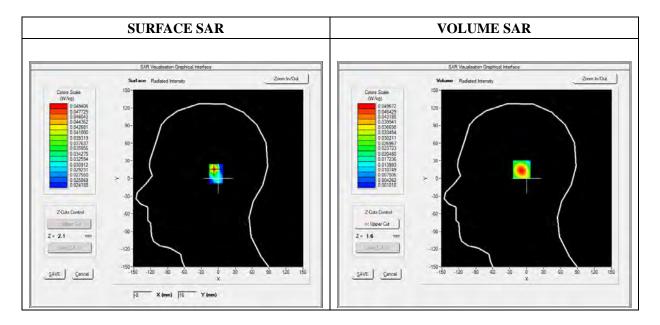
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

A. Experimental conditions

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

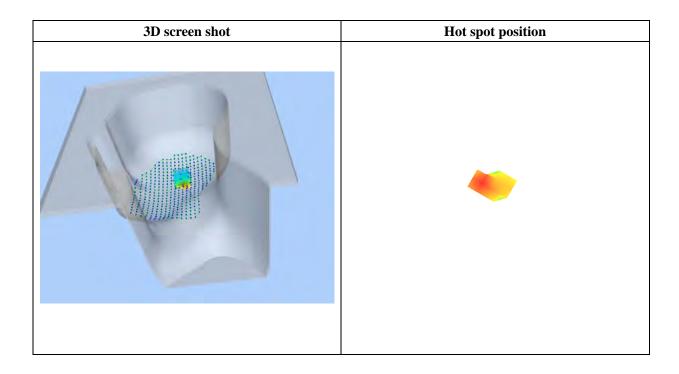
Frequency (MHz)	2442.000000
Relative Permittivity (real part)	38.762140
Conductivity (S/m)	1.781240
Power Variation (%)	1.144120
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-7.00, Y=16.00

SAR 10g (W/Kg)	0.020571
SAR 1g (W/Kg)	0.047520

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	R (W/Kg) 0.0000	0.0497	0.0148	0.0040	0.0017
	0.05- 0.04- 0.03- WW 0.03- 0.02- 0.01- 0.00- 0.00 2.		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

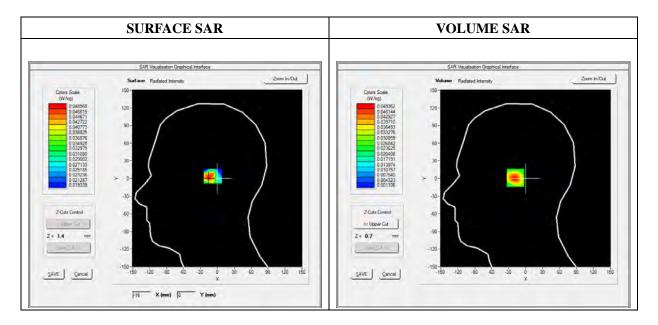
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

A. Experimental conditions

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

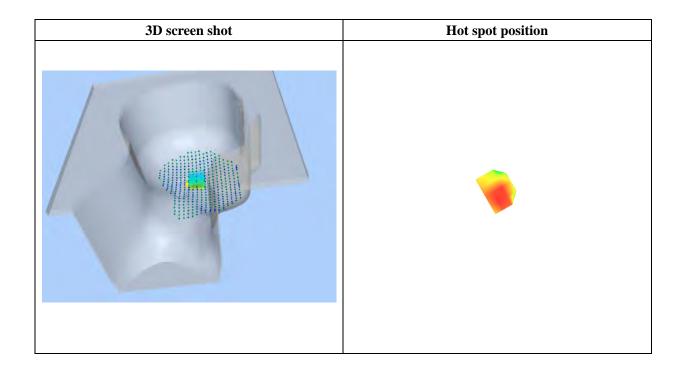
Frequency (MHz)	2442.000000
Relative Permittivity (real part)	38.762140
Conductivity (S/m)	1.781240
Power Variation (%)	1.144120
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-16.00, Y=1.00

SAR 10g (W/Kg)	0.021131	
SAR 1g (W/Kg)	0.046548	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0494	0.0175	0.0058	0.0024
	0.05- 0.04- 8W 0.03- WY 0.02- 0.01- 0.00- 0.0 2.		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

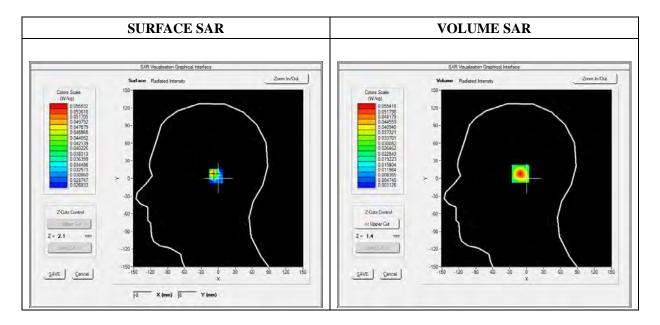
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

A. Experimental conditions

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

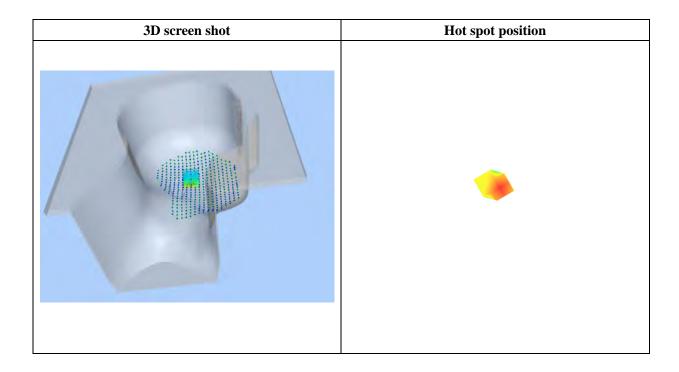
Frequency (MHz)	2442.000000		
Relative Permittivity (real part)	38.762140		
Conductivity (S/m)	1.781240		
Power Variation (%)	1.144120		
Ambient Temperature	21.1		
Liquid Temperature	21.2		



Maximum location: X=-9.00, Y=8.00

SAR 10g (W/Kg)	0.022607	
SAR 1g (W/Kg)	0.051924	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0554	0.0185	0.0057	0.0023
	0.06- 0.05- 0.04- 0.03- 0.02- 0.01- 0.00- 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: 09/22/2014

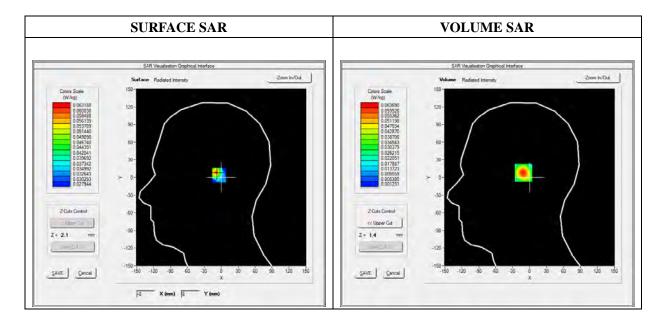
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

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)	

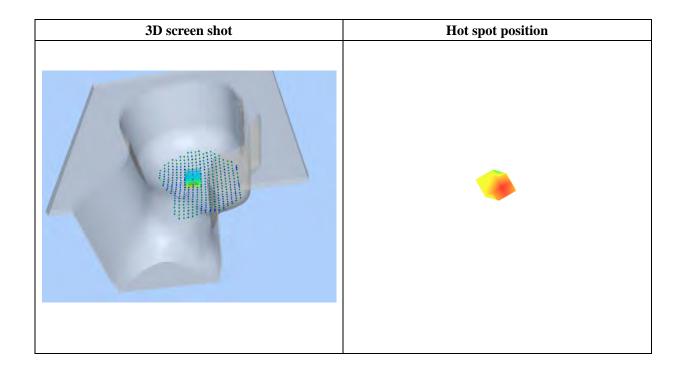
Frequency (MHz)	2412.000000		
Relative Permittivity (real part)	38.762140		
Conductivity (S/m)	1.781240		
Power Variation (%)	1.144120		
Ambient Temperature	21.1		
Liquid Temperature	21.2		



Maximum location: X=-9.00, Y=8.00

SAR 10g (W/Kg)	0.025896	
SAR 1g (W/Kg)	0.059586	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0637	0.0213	0.0064	0.0025
	0.06-	<u> </u>			
	0.05				
	SAB (Wild State of the State of	+	 		
	€ 0.03-	\rightarrow			
	₹ 0.02-				
	0.01				
	0.00-	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: 09/22/2014

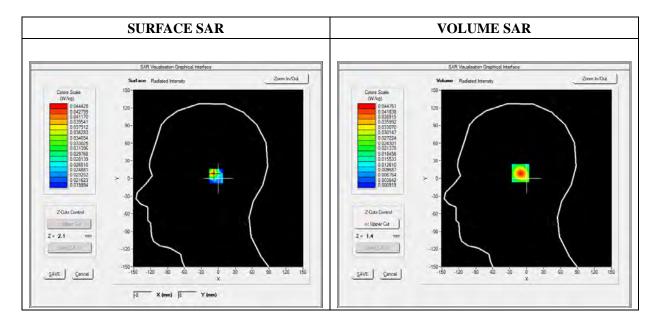
Measurement duration: 12 minutes 3 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.51; Calibrated: 03/21/2014

A. Experimental conditions

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

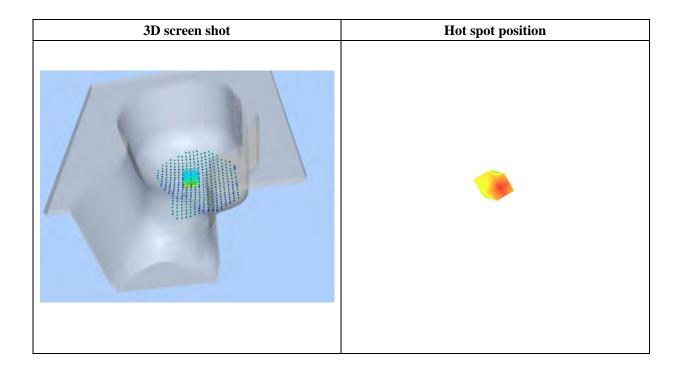
Frequency (MHz)	2472.000000		
Relative Permittivity (real part)	38.762140		
Conductivity (S/m)	1.781240		
Power Variation (%)	1.144120		
Ambient Temperature	21.1		
Liquid Temperature	21.2		



Maximum location: X=-9.00, Y=9.00

SAR 10g (W/Kg)	0.018150	
SAR 1g (W/Kg)	0.041935	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0448	0.0147	0.0045	0.0020
	0.04 - 0.04 - 0.04 - 0.03 - 0.02 - 0.01 - 0.00 - 0.	5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

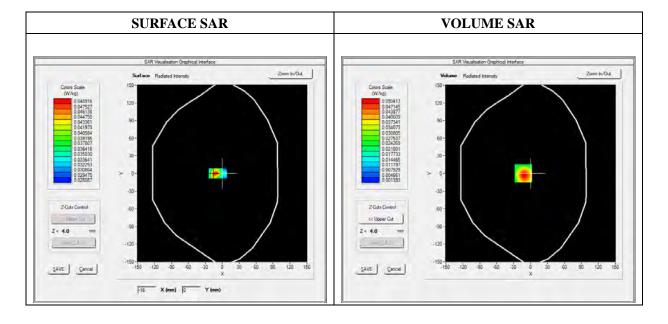
Measurement duration: 12 minutes 3 seconds

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	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

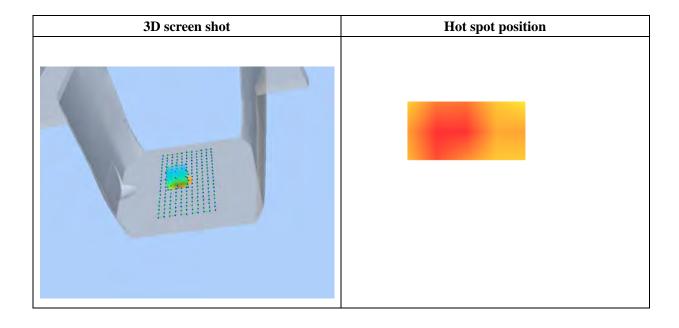
Frequency (MHz)	2442.000000
Relative Permittivity (real part)	52.431240
Conductivity (S/m)	1.921230
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-13.00, Y=0.00

SAR 10g (W/Kg)	0.022188	
SAR 1g (W/Kg)	0.049094	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0504	0.0168	0.0052	0.0022
	0.05 - 0.04 - 0.03 - 0.02 - 0.01 - 0.00 - 0.0 2		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

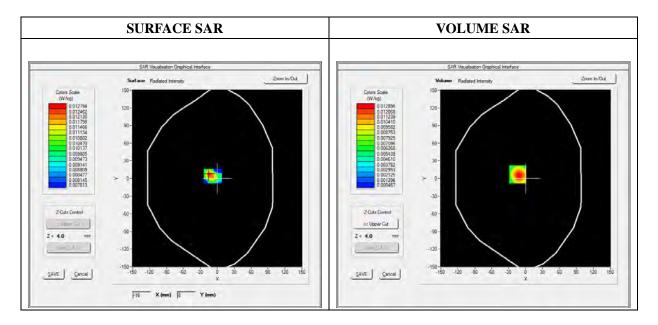
Measurement duration: 12 minutes 3 seconds

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	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

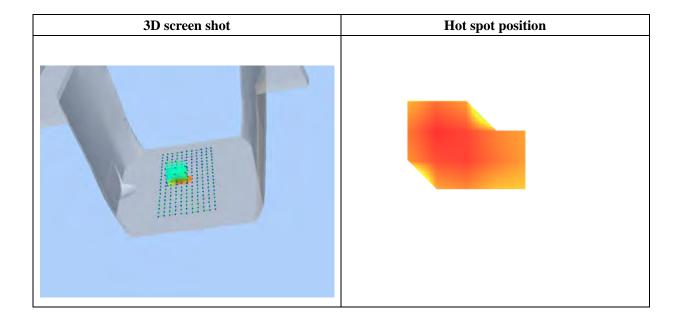
Frequency (MHz)	2442.000000	
Relative Permittivity (real part)	52.431240	
Conductivity (S/m)	1.921230	
Power Variation (%)	0.551121	
Ambient Temperature	21.1	
Liquid Temperature	21.2	



Maximum location: X=-14.00, Y=7.00

SAR 10g (W/Kg)	0.005878	
SAR 1g (W/Kg)	0.012870	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0129	0.0035	0.0010	0.0008
	0.013-				
	0.010- 0.008- 0.006- 0.004- 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: 09/22/2014

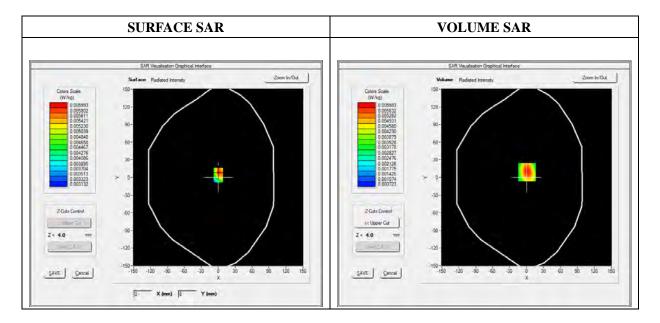
Measurement duration: 12 minutes 3 seconds

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	Right Side	
Band	WiFi_802.11b	
Channels	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

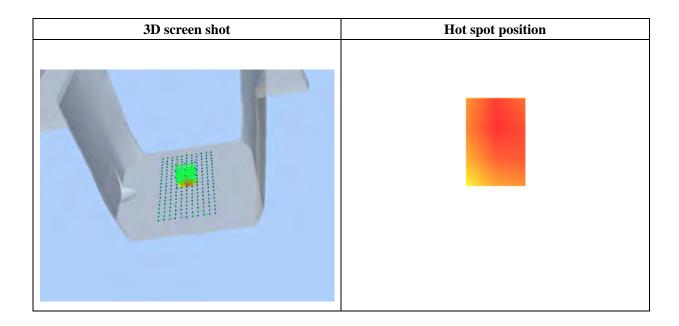
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	52.431240
Conductivity (S/m)	1.921230
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=1.00, Y=9.00

SAR 10g (W/Kg)	0.002974	
SAR 1g (W/Kg)	0.005802	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0060	0.0022	0.0010	0.0010
	0.006-				
	0.005-	\longrightarrow			
	₩ 0.004-	$\square \backslash \square$			
	W 0.004- W 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: 09/22/2014

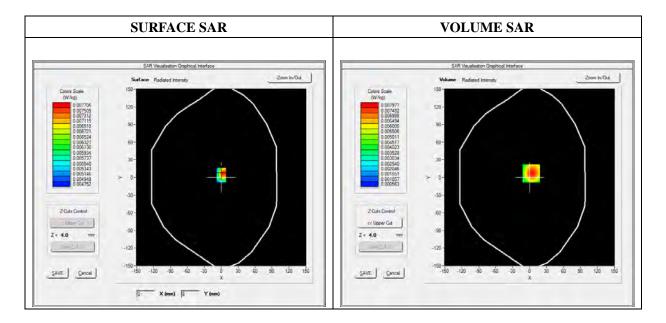
Measurement duration: 12 minutes 3 seconds

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	Bottom Side	
Band	WiFi_802.11b	
Channels	Middle	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

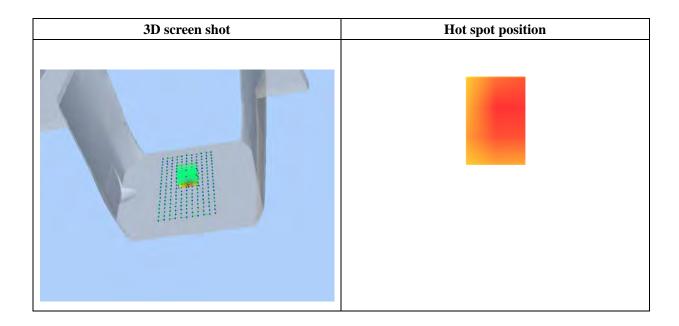
Frequency (MHz)	2442.000000
Relative Permittivity (real part)	52.431240
Conductivity (S/m)	1.921230
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=3.00, Y=7.00

SAR 10g (W/Kg)	0.003751
SAR 1g (W/Kg)	0.007907

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0080	0.0023	0.0008	0.0008
(0.008 - 0.007 - 0.006 - 0.005 - 0.005 - 0.004 - 0.003 - 0.003 - 0.002				
	0.001-	.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: 09/22/2014

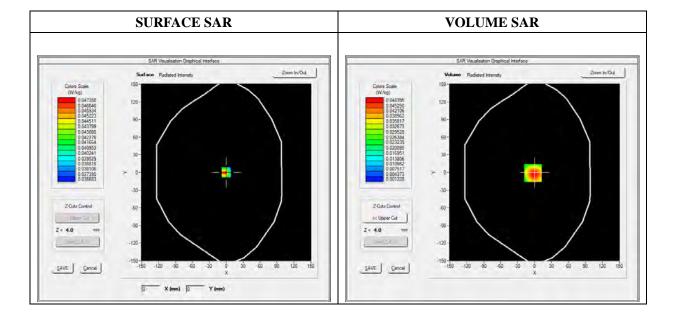
Measurement duration: 12 minutes 3 seconds

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)	

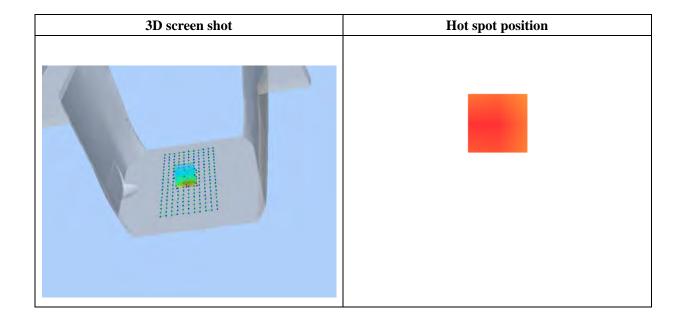
Frequency (MHz)	2412.000000
Relative Permittivity (real part)	52.431240
Conductivity (S/m)	1.921230
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-3.00, Y=-1.00

SAR 10g (W/Kg)	0.021747	
SAR 1g (W/Kg)	0.047140	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0484	0.0159	0.0049	0.0021
	0.05- 0.04- WW (WW W W W W W W W W W W W W W W W W		12.5 15.0 17.5 Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 09/22/2014

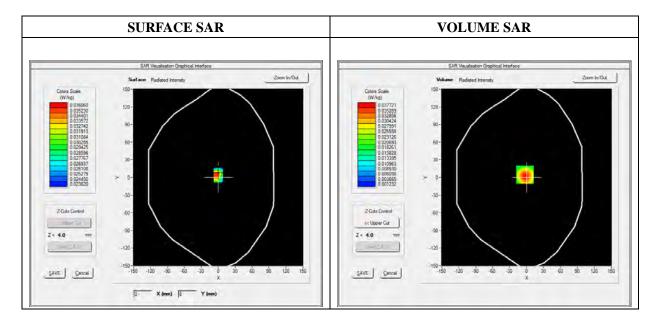
Measurement duration: 12 minutes 3 seconds

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	High	
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)	

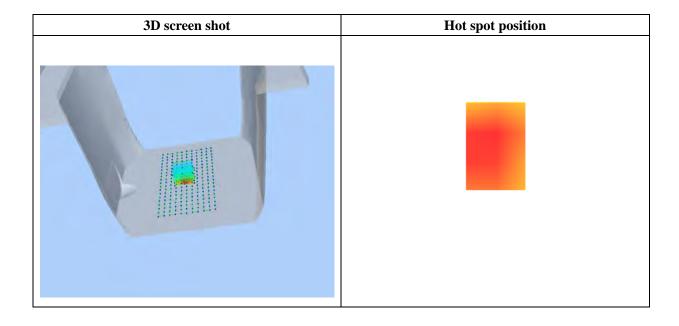
Frequency (MHz)	2472.000000
Relative Permittivity (real part)	52.431240
Conductivity (S/m)	1.921230
Power Variation (%)	0.551121
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-3.00, Y=5.00

SAR 10g (W/Kg)	0.016602	
SAR 1g (W/Kg)	0.036792	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0377	0.0117	0.0035	0.0016
	0.038-				
	0.030- 0.025- 0.020- W 0.015- 0.010- 0.005- 0.001- 0.00 2	.5 5.0 7.5 10.0	12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Annex C. EUT Photos

EUT View Front



EUT View Back



Antenna View



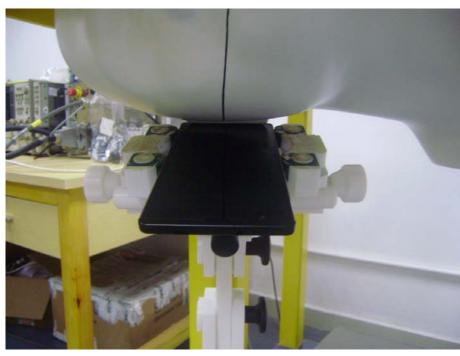
Annex D. Test Setup Photos

Test View 1 (Right Head)



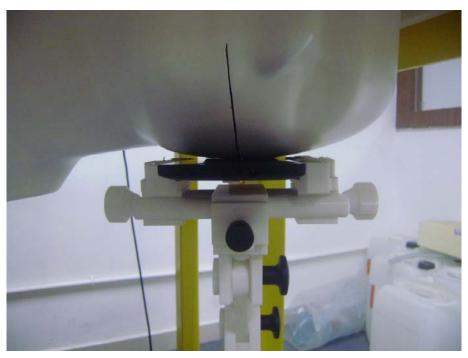


Tilt



Test View 2 (Left Head)





Tilt



Test View 3





Back Side



Right side



Left side



Top Side



Body Bottom



Body-worn



Annex E. Calibration Certificate

Please refer to the exhibit for the calibration certificate

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