

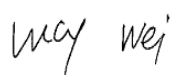
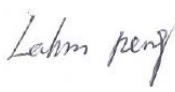
FCC SAR Measurement and Test Report

For

XPX TECHNOLOGY CO., LTD

RM689B, HUAFA 411 Bldg. Huafa N. Road, Futian, Shenzhen, China

FCC ID: 2ADIZ-LIFE

FCC Rules:	FCC Part 2.1093 ANSI / IEEE C95.1 :2005 ANSI / IEEE C95.3 :2002 <u>IEEE 1528 :2013</u>
Product Description:	<u>3G Mobile phone</u>
Tested Model:	<u>LIFE</u>
Report No.:	<u>STR15068240H</u>
Tested Date:	<u>2015-07-13 to 2015-07-14</u>
Issued Date:	<u>2015-07-15</u>
Tested By:	<u>Lucy Wei / Engineer</u> 
Reviewed By:	<u>Lahm Peng / EMC Manager</u> 
Approved & Authorized By:	<u>Jandy So / PSQ Manager</u> 
Prepared By:	

Shenzhen SEM.Test Technology Co., Ltd.
1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road,
Bao'an District, Shenzhen, P.R.C. (518101)
Tel.: +86-755-33663308 Fax.: +86-755-33663309 Website: www.semtest.com.cn

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: XPX TECHNOLOGY CO., LTD
 Address of applicant: RM689B, HUAFA 411 Bldg. Huafa N. Road, Futian, Shenzhen, China
 Manufacturer: XPX TECHNOLOGY CO., LTD
 Address of manufacturer: Flat2, 2/F, Wah Wai Industrial Building, 53-61 Pak Tin Par Street, Tsuen Wan, NT, HK

General Description of EUT	
Product Name:	3G Mobile phone
Brand Name:	LIFE, XPX,ZILO
Model No.:	LIFE
Adding Model:	L4, L5, X35LIFE, X40LIFE, L45, L55, L35
Hardware Version:	CN513-MAINPCB-V2.0.0
Software Version:	CN513EW_ZHANKAI_L40_FOREIGN_V1.0.0_userdebug_r18402
IMEI:	352297070004050/352297070004051
Rated Voltage:	DC 3.7V Li-ion Battery
Battery:	1400mAh
Device Category:	Portable Device
<i>The EUT is dual band GSM 850/1900 MHz, WCDMA 850/1900MHz, 3G Mobile phone. The 3G Mobile phone is intended for speech and Multimedia Message Service (MMS) transmission. It is equipped with GPRS class 12 for GSM 850/1900 and Wi-Fi, Bluetooth, GPS, and camera functions. For more information see the following datasheet.</i> <i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model LIFE , but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
2G	
Support Networks:	GSM, GPRS
Support Band:	GSM850/PCS1900
Uplink Frequency:	GSM/GPRS 850: 824~849MHz GSM/GPRS 1900: 1850~1910MHz
Downlink Frequency:	GSM/GPRS 850: 869~894MHz GSM/GPRS 1900: 1930~1990MHz
RF Output Power:	GSM850: 31.61dBm, GSM1900: 28.79dBm

Type of Modulation:	GMSK
Antenna Type:	Internal Antenna
Antenna Gain:	GSM850: 0.30dBi, GSM1900: 0.30dBi
GPRS Class:	Class 12
3G	
Support Networks:	WCDMA, HSDPA, HSUPA
Support Band:	WCDMA Band II, WCDMA Band V
Uplink Frequency:	WCDMA Band II: 1850~1910MHz WCDMA Band V: 824~849MHz
Downlink Frequency:	WCDMA Band II: 1930~1990MHz WCDMA Band V: 869~894MHz
RF Output Power:	WCDMA850: 21.73dBm, WCDMA1900: 22.74dBm
Type of Modulation:	BPSK
Antenna Type:	Integral Antenna
Antenna Gain:	WCDMA850: 0.30dBi, WCDMA1900: 0.30dBi
WIFI	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/b/n(HT20)
AV Output Power:	11.99dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11 for 802.11b/b/n(HT20)
Channel Separation:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	0.20dBi
Bluetooth	
Bluetooth Version:	V3.0
Frequency Range:	2402-2480MHz
AV Output Power:	7.068dBm (Conducted)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, Pi/4 QDPSK, 8DPSK
Quantity of Channels:	79
Channel Separation:	1MHz
Antenna Type:	Integral Antenna
Antenna Gain:	0.20dBi

1.2 Test Standards

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

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

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

1.3 Test Methodology

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

1.4 Test Facility

- **FCC – Registration No.: 934118**

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

- **Industry Canada (IC) Registration No.: 11464A**

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

- **CNAS Registration No.: L4062**

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

2. Summary of Test Results

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

Frequency Band	Head SAR	Body-worn (10mm Gap)	Hotspot (10mm Gap)	SAR _{lg} Limit (W/kg)
	Maximum SAR _{lg} (W/kg)	Maximum SAR _{lg} (W/kg)	Maximum SAR _{lg} (W/kg)	
GSM850	0.1750	1.1656	0.2023	1.6
GSM1900	0.1274	0.3865	0.2736	1.6
WCDMA Band V	0.1768	0.7122	0.7122	1.6
WCDMA Band II	0.2326	0.5814	0.5814	1.6
WLAN 2.4G	0.0732	0.0808	0.0808	1.6
GSM850 & WLAN 2.4G	0.2482	1.2464	0.2831	1.6
GSM1900 & WLAN 2.4G	0.1744	0.4673	0.3544	1.6
WCDMA Band V & WLAN 2.4GHz	0.2500	0.7930	0.7930	1.6
WCDMA Band II& WLAN 2.4GHz	0.2663	0.6622	0.6622	1.6

*The highest reported SAR values for head, body-worn accessory, wireless router(hotspot),and simultaneous transmission conditions are **0.233 W/kg, 1.166 W/kg , 0.712 W/kg, and 1.246W/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 techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

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:

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

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

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

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

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

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.

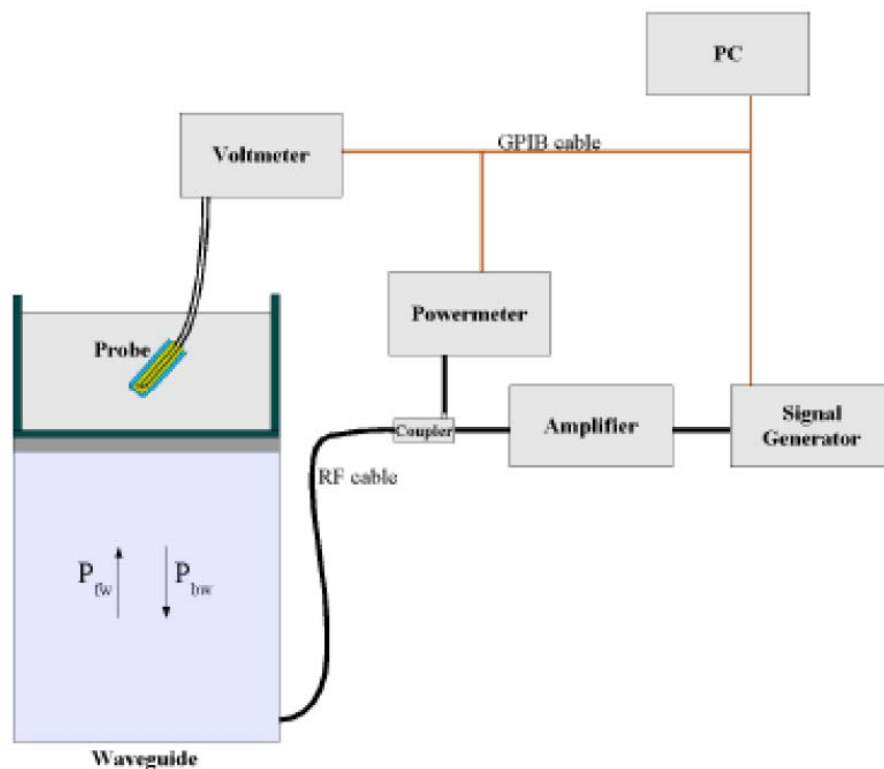
4.2 Probe

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 surface normal line: less 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 annex technique using reference guide at the five frequencies.



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

Where :

P_{fw} = Forward Power

P_{bw} = Backward Power

a and b = Waveguide dimensions

δ = 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:

$$CF(N)=SAR(N)/V_{lin}(N) \quad (N=1,2,3)$$

The linearised output voltage $V_{lin}(N)$ is obtained from the displayed output voltage $V(N)$ using

$$V_{lin}(N)=V(N)*(1+V(N)/DCP(N)) \quad (N=1,2,3)$$

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:

$$SAR = C \frac{\Delta T}{\Delta t}$$

Δt = exposure time (30 seconds),

C = heat capacity of tissue (brain or muscle),

ΔT = temperature increase due to RF exposure.

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

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

Where:

σ = simulated tissue conductivity,

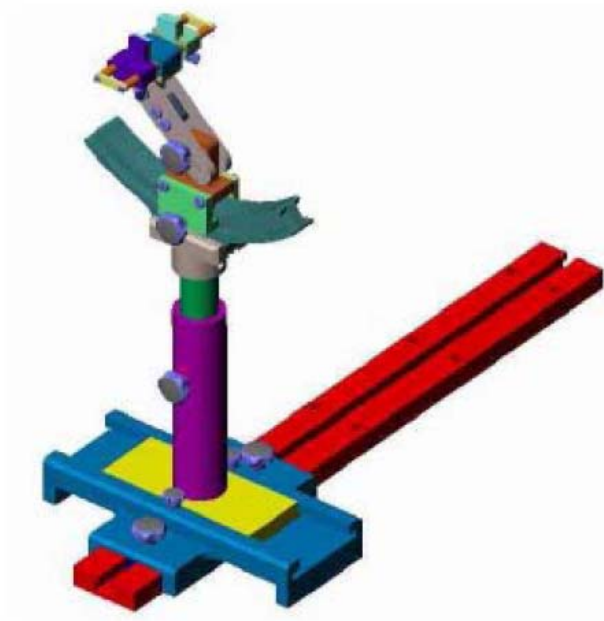
ρ = Tissue density (1.25 g/cm³ for brain tissue)

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

4.6 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
E-Field Probe	SATIMO	SSE5	SN 09/13 EP168	2015-06-03	2016-06-02
835MHz Dipole	SATIMO	SID835	SN 47/12 DIP 0G835-204	2015-03-16	2016-03-15
1900MHz Dipole	SATIMO	SID1900	SN 47/12 DIP 1G900-207	2015-03-16	2016-03-15
2450MHz Dipole	SATIMO	SID2450	SN 13/15 DIP 2G450-364	2015-04-13	2016-04-12
Dielectric Probe Kit	SATIMO	SCLMP	SN 47/12 OCPG49	2015-03-16	2016-03-15
SAM Phantom	SATIMO	SAM	SN/ 47/12 SAM95	N/A	N/A
MULTIMETER	KEITHLEY	Keithley 2000	4006367	2015-05-28	2016-05-27
Signal Generator	Rohde & Schwarz	SMR20	100047	2015-05-28	2016-05-27
Universal Tester	Rohde & Schwarz	CMU200	112012	2015-05-28	2016-05-27
Network Analyzer	HP	8753C	2901A00831	2015-05-28	2016-05-27
Data Acquisition Electronics	SATIMO	DAE4	915	2015-05-28	2016-05-27
Directional Couplers	Agilent	778D	20160	2015-05-28	2016-05-27

5. Tissue Simulating Liquids

5.1 Composition of Tissue Simulating Liquid

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



Liquid Height for Head SAR



Liquid Height for Body SAR

The Composition of Tissue Simulating Liquid

Frequency (MHz)	Water (%)	Salt (%)	Triton (%)	HEC (%)	Preventol (%)	DGBE (%)
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	70.56	0.35	20.88	0.00	0.00	8.21

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.

Target Frequency (MHz)	Head		Body	
	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity (σ)	Permittivity (ϵ_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									
Freq. MHz.	Temp. (°C)	Conductivity			Permittivity			Limit (%)	Date
		Reading (σ)	Target (σ)	Delta (%)	Reading (ϵ_r)	Target (ϵ_r)	Delta (%)		
835	21.2	0.87	0.90	-3.33	41.11	41.50	-0.94	± 5	2015-07-13
1900	21.3	1.38	1.40	-1.43	38.56	40.00	-3.60	± 5	2015-07-13
2450	21.3	1.76	1.80	-2.22	38.6	39.2	-1.53	± 5	2015-07-13

Body Tissue Simulating Liquid									
Freq. MHz.	Temp. (°C)	Conductivity			Permittivity			Limit (%)	Date
		Reading (σ)	Target (σ)	Delta (%)	Reading (ϵ_r)	Target (ϵ_r)	Delta (%)		
835	21.2	0.95	0.97	-2.06	54.85	55.20	-0.63	± 5	2015-07-13
1900	21.3	1.50	1.52	-1.32	52.42	53.30	-1.65	± 5	2015-07-13
2450	21.3	2.00	1.95	2.56	52.3	52.7	-0.76	± 5	2015-07-13

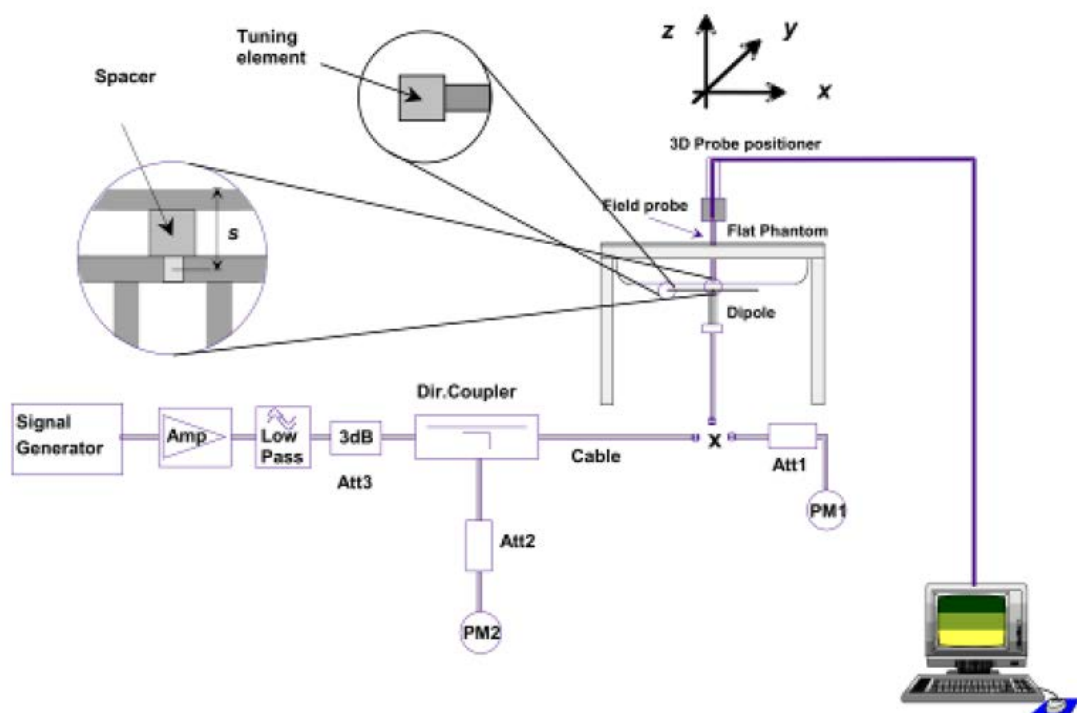
6. SAR Measurement Evaluation

6.1 Purpose of System Performance Check

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

6.2 System Setup

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



System Verification Setup Block Diagram



Setup Photo of Dipole Antenna

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

6.3 Validation Results

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

Frequency	Targeted SAR _{1g}	Measured SAR _{1g}	Normalized SAR _{1g}	Tolerance
MHz	(W/kg)	(W/kg)	(W/kg)	(%)
Head				
835	9.56	2.41	9.65	0.94
1900	39.70	9.90	39.59	-0.28
2450	52.40	13.44	53.76	2.60
Body				
835	9.56	2.34	9.36	-2.09
1900	39.70	9.75	39.01	-1.74
2450	52.40	12.58	50.33	-3.95

Targeted and Measurement SAR

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

7. EUT Testing Position

7.1 Define Two Imaginary Lines on The Handset

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

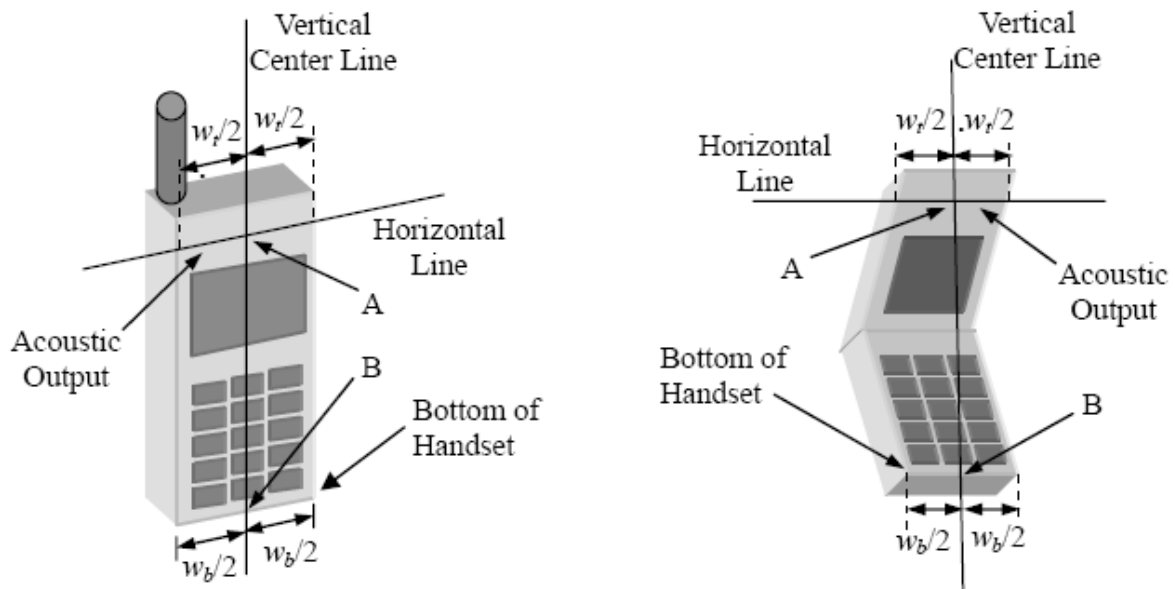


Illustration for Handset Vertical and Horizontal Reference Lines

7.2 Cheek Position

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

(b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig. 7.2).

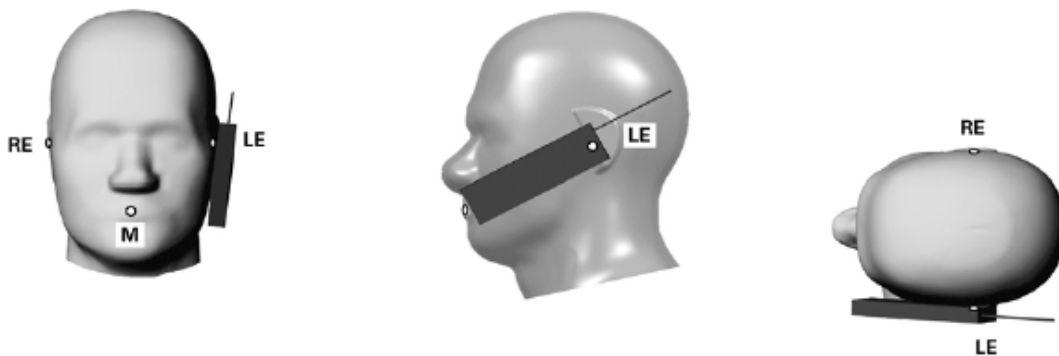


Illustration for Cheek Position

7.3 Tilted Position

(a) To position the device in the “cheek” position described above.

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

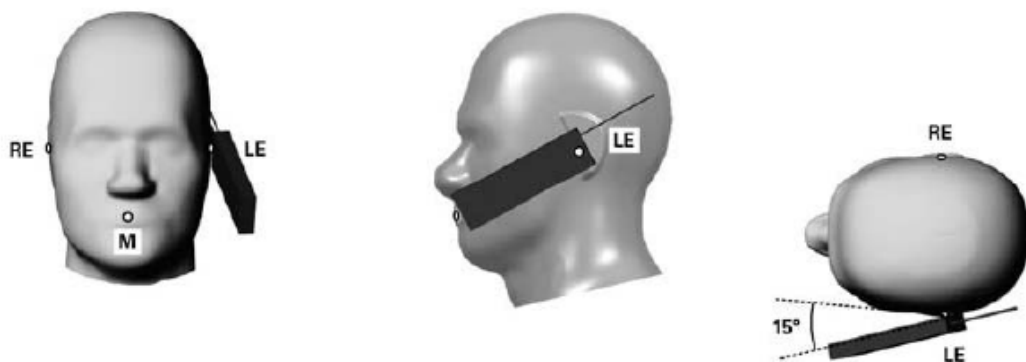


Illustration for Tilted Position

7.4 Body Position

- (a) To position the device parallel to the phantom surface with either keypad up or down.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 10mm.

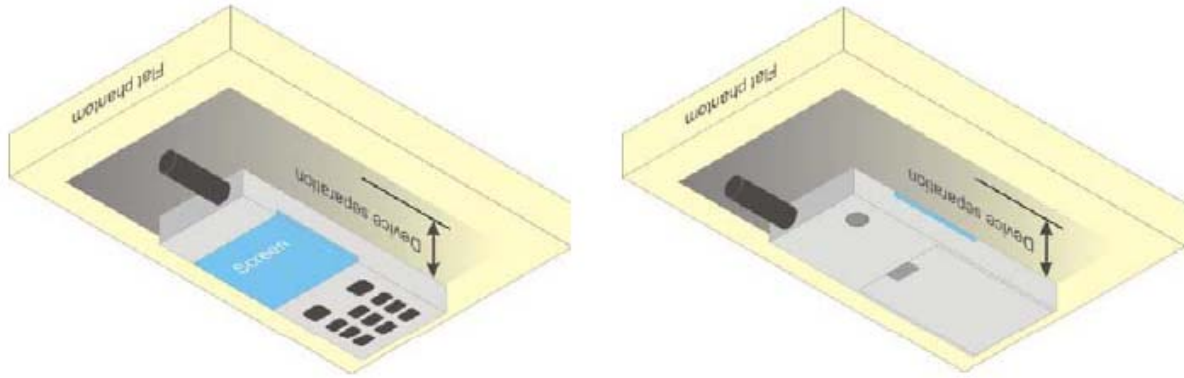


Illustration for Body Position

7.5 EUT Antenna Position



Block Diagram for EUT Antenna Position

7.6 EUT Testing Position

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

Head SAR tests				
Antennas	Right Cheek	Left Cheek	Right Tilted	Left Tilted
WWAN	Yes	Yes	Yes	Yes
WLAN	Yes	Yes	Yes	Yes

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

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

Remark:

1. Referring to KDB 941225 D06, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, 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 from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

8.3 Area & Zoom Scan Procedures

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

8.4 Volume Scan Procedures

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

8.5 SAR Averaged Methods

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

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

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

8.6 Power Drift Monitoring

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

9. SAR Test Result

9.1 Conducted RF Output Power

GSM - Burst Average Power (dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880	1909.8
GSM	31.61	31.31	31.31	28.01	28.49	28.79
GPRS (1 slot)	31.60	31.35	31.36	28.07	28.49	28.74
GPRS (2 slots)	29.85	29.85	29.86	26.22	26.68	26.97
GPRS (3 slots)	28.14	28.14	28.12	24.67	25.10	25.47
GPRS (4 slots)	26.32	26.28	26.22	22.64	23.09	23.46

GSM - Source-Based Time-Average Power (dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880	1909.8
GSM	22.61	22.31	22.31	19.01	19.49	19.79
GPRS (1 slot)	22.60	22.35	22.36	19.07	19.49	19.74
GPRS (2 slots)	23.85	23.85	23.86	20.22	20.68	20.97
GPRS (3 slots)	23.89	23.89	23.87	20.42	20.85	21.22
GPRS (4 slots)	23.32	23.28	23.22	19.64	20.09	20.46

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 (3Tx slots) for GSM850 and GSM1900 due to its highest source-based time-average power.
3. Per KDB 447498 D01 v05r02, the maximum output power channel is used for SAR testing and for further SAR test reduction.
4. The DUT do not support DTM function.

WCDMA - Average Power (dBm)						
Band	WCDMA Band II			WCDMA Band V		
Channel	9262	9400	9538	4132	4182	4233
Frequency (MHz)	1852.4	1880.0	1907.6	826.4	836.4	846.6
RMC 12.2k	21.45	22.74	22.55	21.14	21.73	20.68
HSDPA Subtest-1	21.01	22.33	21.19	20.19	21.72	20.62
HSDPA Subtest-2	20.88	22.15	21.14	20.01	21.59	20.34
HSDPA Subtest-3	20.64	21.92	20.86	19.89	21.35	20.12
HSDPA Subtest-4	20.46	21.74	20.74	19.68	21.13	20.07
HSUPA Subtest-1	21.37	22.52	22.01	20.00	20.63	20.44
HSUPA Subtest-2	21.25	22.43	20.95	19.80	20.43	20.34
HSUPA Subtest-3	21.08	22.29	20.73	19.63	20.27	20.28
HSUPA Subtest-4	20.90	22.18	20.44	19.55	20.13	20.12
HSUPA Subtest-5	20.79	22.01	20.30	19.34	20.04	20.00

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 $\leq 1.2\text{W/kg}$, HSDPA SAR evaluation can be excluded.

WLAN - Maximum Average Power				
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)
802.11b	1Mbps	CH 01	2412	10.84
		CH 06	2437	11.51
		CH 11	2462	11.99
802.11g	54Mbps	CH 01	2412	6.91
		CH 06	2437	7.75
		CH 11	2462	8.09
802.11n (20MHz)	MCS7	CH 01	2412	3.68
		CH 06	2437	4.52
		CH 11	2462	4.72

Remark:

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

Bluetooth - Maximum Average Power				
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)
GFSK	1Mbps	CH 00	2402	6.65
		CH 39	2441	6.863
		CH 78	2480	7.068
8DPSK	3Mbps	CH 00	2402	6.099
		CH 39	2441	6.304
		CH 78	2480	6.493

Remark:

Bluetooth maximum output power is 7.068dBm, and Tune-Up output power is 7.5dBm. Per KDB 648474 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{16} \text{ where}$$

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

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
7.5	5.62	5	2.480	1.77	3

The exclusion thresholds is $1.77 < 3$, therefore, the RF exposure evaluation is not required.

9.2 Test Results for Standalone SAR Test

Head SAR

GSM850 – Head SAR Test									
Plot No.	Mode	Test Position Head	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
1	GSM	Right Cheek	128	824.2	31.61	32.0	1.0940	0.1546	0.1691
2	GSM	Right Tilted	128	824.2	31.61	32.0	1.0940	0.0979	0.1071
3	GSM	Left Cheek	128	824.2	31.61	32.0	1.0940	0.1600	0.1750
4	GSM	Left Tilted	128	824.2	31.61	32.0	1.0940	0.1000	0.1094

GSM1900 – Head SAR Test									
Plot No.	Mode	Test Position Head	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	M Hz					
14	GSM	Right Cheek	810	1909.8	28.79	29.0	1.0495	0.1214	0.1274
15	GSM	Right Tilted	810	1909.8	28.79	29.0	1.0495	0.0148	0.0155
16	GSM	Left Cheek	810	1909.8	28.79	29.0	1.0495	0.0964	0.1012
17	GSM	Left Tilted	810	1909.8	28.79	29.0	1.0495	0.0295	0.0310

WCDMA Band V – Head SAR Test									
Plot No.	Mode	Test Position Head	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
25	RMC	Right Cheek	4182	836.4	21.73	22.0	1.0641	0.1598	0.1701
26	RMC	Right Tilted	4182	836.4	21.73	22.0	1.0641	0.1124	0.1196
27	RMC	Left Cheek	4182	836.4	21.73	22.0	1.0641	0.1661	0.1768
28	RMC	Left Tilted	4182	836.4	21.73	22.0	1.0641	0.1207	0.1284

WCDMA Band II – Head SAR Test									
Plot No.	Mode	Test Position Head	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
34	RMC	Right Cheek	9400	1880.0	22.74	23.0	1.0617	0.2191	0.2326
35	RMC	Right Tilted	9400	1880.0	22.74	23.0	1.0617	0.0290	0.0308
36	RMC	Left Cheek	9400	1880.0	22.74	23.0	1.0617	0.1687	0.1791
37	RMC	Left Tilted	9400	1880.0	22.74	23.0	1.0617	0.0556	0.0590

WLAN 2.4GHz – Head SAR Test									
Plot No.	Mode	Test Position Head	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
43	802.11b	Right Cheek	11	2462	11.99	12.0	1.0023	0.0336	0.0337
44	802.11b	Right Tilted	11	2462	11.99	12.0	1.0023	0.0289	0.0290
45	802.11b	Left Cheek	11	2462	11.99	12.0	1.0023	0.0730	0.0732
46	802.11b	Left Tilted	11	2462	11.99	12.0	1.0023	0.0727	0.0729

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 No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
5	GSM	Back	128	824.2	31.61	32.0	1.0940	0.9778	1.0697
6	GSM	Back	190	836.6	31.31	32.0	1.1722	0.9481	1.1114
7	GSM	Back	251	848.8	31.31	32.0	1.1722	0.9944	1.1656
8	GSM	Front	128	824.2	31.61	32.0	1.0940	0.2558	0.2798

GSM1900 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
18	GSM	Back	810	1909.8	28.79	29.0	1.0495	0.3683	0.3865
19	GSM	Front	810	1909.8	28.79	29.0	1.0495	0.1230	0.1291

WCDMA Band V – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
29	RMC 12.2k	Back	4182	836.4	21.73	22.0	1.0641	0.6693	0.7122
30	RMC 12.2k	Front	4182	836.4	21.73	22.0	1.0641	0.2072	0.2205

WCDMA Band II – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
38	RMC 12.2k	Back	9400	1880.0	22.74	23.0	1.0617	0.5476	0.5814
39	RMC 12.2k	Front	9400	1880.0	22.74	23.0	1.0617	0.2414	0.2563

WLAN 2.4GHz –Body SAR Test									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
47	802.11b	Back Side	11	2462	11.99	12.0	1.0023	0.0806	0.0808
48	802.11b	Front Side	11	2462	11.99	12.0	1.0023	0.0213	0.0213

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 No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
9	GPRS_3TX	Back Side	128	824.2	28.14	28.5	1.0864	0.1862	0.2023
10	GPRS_3TX	Front Side	128	824.2	28.14	28.5	1.0864	0.1127	0.1224
11	GPRS_3TX	Bottom side	128	824.2	28.14	28.5	1.0864	0.0238	0.0259
12	GPRS_3TX	Right side	128	824.2	28.14	28.5	1.0864	0.0914	0.0993
13	GPRS_3TX	Left side	128	824.2	28.14	28.5	1.0864	0.0797	0.0866

GSM1900 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
20	GPRS_3TX	Back Side	810	1909.8	25.47	25.5	1.0069	0.2717	0.2736
21	GPRS_3TX	Front Side	810	1909.8	25.47	25.5	1.0069	0.1462	0.1472
22	GPRS_3TX	Bottom side	810	1909.8	25.47	25.5	1.0069	0.0480	0.0483
23	GPRS_3TX	Right side	810	1909.8	25.47	25.5	1.0069	0.0662	0.0667
24	GPRS_3TX	Left side	810	1909.8	25.47	25.5	1.0069	0.0035	0.0035

WCDMA Band V – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
29	RMC 12.2k	Back Side	4182	836.4	21.73	22.0	1.0641	0.6693	0.7122
30	RMC 12.2k	Front Side	4182	836.4	21.73	22.0	1.0641	0.2072	0.2205
31	RMC 12.2k	Bottom side	4182	836.4	21.73	22.0	1.0641	0.0717	0.0763
32	RMC 12.2k	Right side	4182	836.4	21.73	22.0	1.0641	0.3682	0.3918
33	RMC 12.2k	Left side	4182	836.4	21.73	22.0	1.0641	0.3656	0.3891

WCDMA Band II – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
38	RMC 12.2k	Back Side	9400	1880.0	22.74	23.0	1.0617	0.5476	0.5814
39	RMC 12.2k	Front Side	9400	1880.0	22.74	23.0	1.0617	0.2414	0.2563
40	RMC 12.2k	Bottom side	9400	1880.0	22.74	23.0	1.0617	0.2556	0.2714
41	RMC 12.2k	Right side	9400	1880.0	22.74	23.0	1.0617	0.3659	0.3885
42	RMC 12.2k	Left side	9400	1880.0	22.74	23.0	1.0617	0.0304	0.0323

WLAN 2.4GHz –Body SAR Test									
Plot No.	Mode	Test Position Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
47	802.11b	Back Side	11	2462	11.99	12.0	1.0023	0.0806	0.0808
48	802.11b	Front Side	11	2462	11.99	12.0	1.0023	0.0213	0.0213
49	802.11b	Left side	11	2462	11.99	12.0	1.0023	0.0713	0.0715
50	802.11b	Top Side	11	2462	11.99	12.0	1.0023	0.0171	0.0171

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

9.3 Simultaneous Multi-band Transmission SAR Analysis

List of Mode for Simultaneous Multi-band Transmission

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

Remark:

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

$$(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})} / x] \text{ W/kg}$$
for test separation distances $\leq 50 \text{ mm}$;
where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01v05r01 as below:

Bluetooth:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	X	SAR(1g) 5mm	SAR(1g) 10mm
7.5	5.62	5/10	2.480	7.5	0.2360	0.1180

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

Head SAR**WWAN and WLAN**

	WWAN		WLAN	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM850	0.1691	0.0337	0.2028
Right Tilted	GSM850	0.1071	0.0290	0.1361
Left Cheek	GSM850	0.1750	0.0732	0.2482
Left Tilted	GSM850	0.1094	0.0729	0.1823
Right Cheek	GSM1900	0.1274	0.0337	0.1611
Right Tilted	GSM1900	0.0155	0.0290	0.0445
Left Cheek	GSM1900	0.1012	0.0732	0.1744
Left Tilted	GSM1900	0.0310	0.0729	0.1039
Right Cheek	WCDMA Band V	0.1701	0.0337	0.2038
Right Tilted	WCDMA Band V	0.1196	0.0290	0.1486
Left Cheek	WCDMA Band V	0.1768	0.0732	0.25
Left Tilted	WCDMA Band V	0.1284	0.0729	0.2013
Right Cheek	WCDMA Band II	0.2326	0.0337	0.2663
Right Tilted	WCDMA Band II	0.0308	0.0290	0.0598
Left Cheek	WCDMA Band II	0.1791	0.0732	0.2523
Left Tilted	WCDMA Band II	0.0590	0.0729	0.1319

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM850	0.1691	0.2360	0.4051
Right Tilted	GSM850	0.1071	0.2360	0.3431
Left Cheek	GSM850	0.1750	0.2360	0.411
Left Tilted	GSM850	0.1094	0.2360	0.3454
Right Cheek	GSM1900	0.1274	0.2360	0.3634
Right Tilted	GSM1900	0.0155	0.2360	0.2515
Left Cheek	GSM1900	0.1012	0.2360	0.3372
Left Tilted	GSM1900	0.0310	0.2360	0.267
Right Cheek	WCDMA Band V	0.1701	0.2360	0.4061
Right Tilted	WCDMA Band V	0.1196	0.2360	0.3556
Left Cheek	WCDMA Band V	0.1768	0.2360	0.4128
Left Tilted	WCDMA Band V	0.1284	0.2360	0.3644
Right Cheek	WCDMA Band II	0.2326	0.2360	0.4686
Right Tilted	WCDMA Band II	0.0308	0.2360	0.2668
Left Cheek	WCDMA Band II	0.1791	0.2360	0.4151
Left Tilted	WCDMA Band II	0.0590	0.2360	0.295

Body-worn SAR**WWAN and WLAN**

	WWAN		WLAN	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM850	1.1656	0.0808	1.2464
Front	GSM850	0.2798	0.0213	0.3011
Back	GSM1900	0.3865	0.0808	0.4673
Front	GSM1900	0.1291	0.0213	0.1504
Back	WCDMA Band V	0.7122	0.0808	0.793
Front	WCDMA Band V	0.2205	0.0213	0.2418
Back	WCDMA Band II	0.5814	0.0808	0.6622
Front	WCDMA Band II	0.2563	0.0213	0.2776

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM850	1.1656	0.1180	1.2836
Front	GSM850	0.2798	0.1180	0.3978
Back	GSM1900	0.3865	0.1180	0.5045
Front	GSM1900	0.1291	0.1180	0.2471
Back	WCDMA Band V	0.7122	0.1180	0.8302
Front	WCDMA Band V	0.2205	0.1180	0.3385
Back	WCDMA Band II	0.5814	0.1180	0.6994
Front	WCDMA Band II	0.2563	0.1180	0.3743

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

Hotspot SAR**WWAN and WLAN**

	WWAN		WLAN	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM850	0.2023	0.0808	0.2831
Front	GSM850	0.1224	0.0213	0.1437
Bottom side	GSM850	0.0259	--	0.0259
Top side	GSM850	--	0.0171	0.0171
Right side	GSM850	0.0993	--	0.0993
Left side	GSM850	0.0866	0.0715	0.1581
Back	GSM1900	0.2736	0.0808	0.3544
Front	GSM1900	0.1472	0.0213	0.1685
Bottom side	GSM1900	0.0483	--	0.0483
Top side	GSM1900	--	0.0171	0.0171
Right side	GSM1900	0.0667	--	0.0667
Left side	GSM1900	0.0035	0.0715	0.075
Back	WCDMA Band V	0.7122	0.0808	0.7930
Front	WCDMA Band V	0.2205	0.0213	0.2418
Bottom side	WCDMA Band V	0.0763	--	0.0763
Top side	WCDMA Band V	--	0.0171	0.0171
Right side	WCDMA Band V	0.3918	--	0.3918
Left side	WCDMA Band V	0.3891	0.0715	0.4606
Back	WCDMA Band II	0.5814	0.0808	0.6622
Front	WCDMA Band II	0.2563	0.0213	0.2776
Bottom side	WCDMA Band II	0.2714	--	0.2714
Top side	WCDMA Band II	--	0.0171	0.0171
Right side	WCDMA Band II	0.3885	--	0.3885
Left side	WCDMA Band II	0.0323	0.0715	0.1038

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM850	0.2023	0.1180	0.3203
Front	GSM850	0.1224	0.1180	0.2404
Bottom side	GSM850	0.0259	0.1180	0.1439
Top side	GSM850	--	0.1180	0.1180
Right side	GSM850	0.0993	0.1180	0.2173
Left side	GSM850	0.0866	0.1180	0.2046
Back	GSM1900	0.2736	0.1180	0.3916
Front	GSM1900	0.1472	0.1180	0.2652
Bottom side	GSM1900	0.0483	0.1180	0.1663
Top side	GSM1900	--	0.1180	0.1180
Right side	GSM1900	0.0667	0.1180	0.1847
Left side	GSM1900	0.0035	0.1180	0.1215
Back	WCDMA Band V	0.7122	0.1180	0.8302
Front	WCDMA Band V	0.2205	0.1180	0.3385
Bottom side	WCDMA Band V	0.0763	0.1180	0.1943
Top side	WCDMA Band V	--	0.1180	0.1180
Right side	WCDMA Band V	0.3918	0.1180	0.5098
Left side	WCDMA Band V	0.3891	0.1180	0.5071
Back	WCDMA Band II	0.5814	0.1180	0.6994
Front	WCDMA Band II	0.2563	0.1180	0.3743
Bottom side	WCDMA Band II	0.2714	0.1180	0.3894
Top side	WCDMA Band II	--	0.1180	0.1180
Right side	WCDMA Band II	0.3885	0.1180	0.5065
Left side	WCDMA Band II	0.0323	0.1180	0.1503

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

10. Measurement Uncertainty

10.1 Uncertainty for EUT SAR Test

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

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

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. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+- %)	Vi
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	$(1_{Cp})^{1/2}$	$(1_{Cp})^{1/2}$	1.02	1.02	∞
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	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∞
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
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 measurement	8,6.6.2	12.02	R	$\sqrt{3}$	1	1	6.94	6.94	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Liquid conductivity - deviation from target value	E.3.2	5.00	R	$\sqrt{3}$	0.64	0.43	1.85	1.24	

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

Annex A. Plots of System Performance Check

MEASUREMENT 1

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 07/13/2015

Measurement duration: 7 minutes 21 seconds

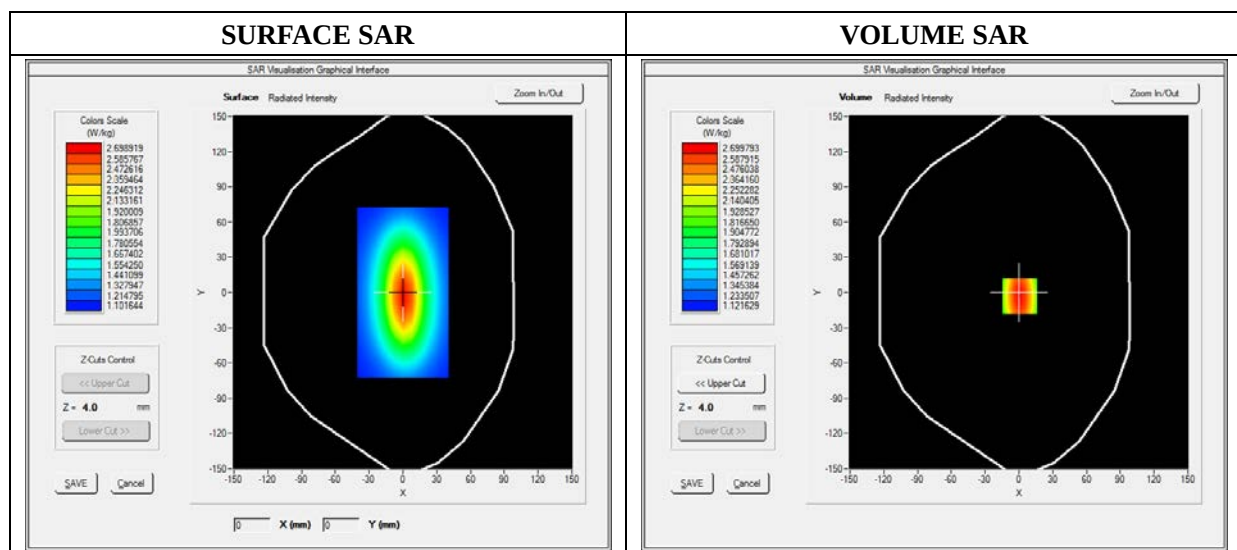
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.838910
Ambient Temperature	21.1
Liquid Temperature	21.3

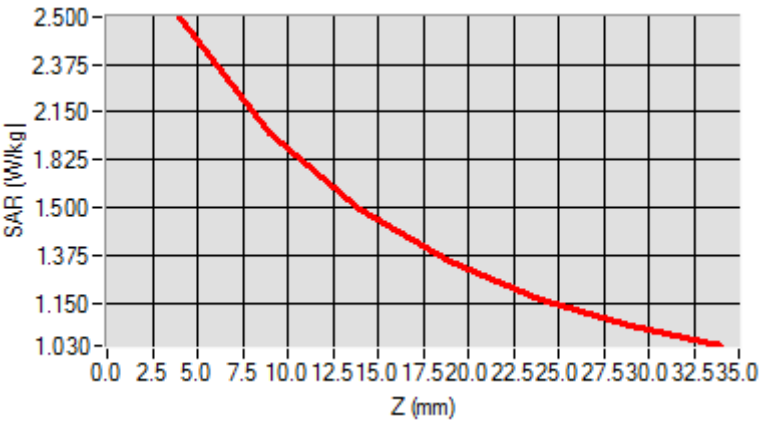


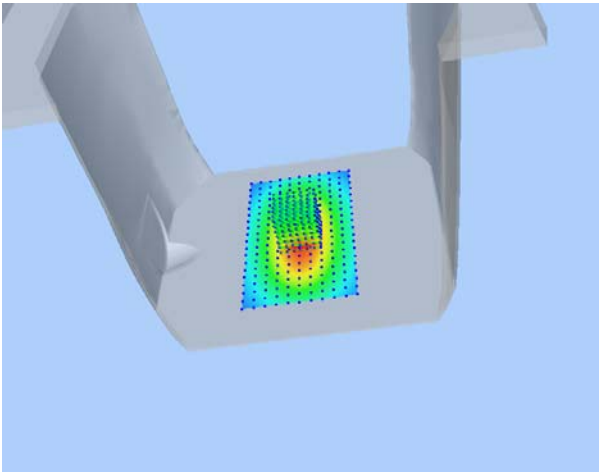
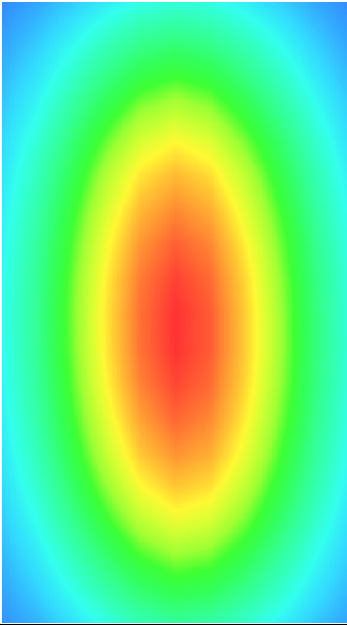
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.129489
SAR 1g (W/Kg)	2.411250

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.4900	1.8942	1.4811	1.3541	1.1123	1.0539



3D screen shot	Hot spot position
	

MEASUREMENT 2

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 21 seconds

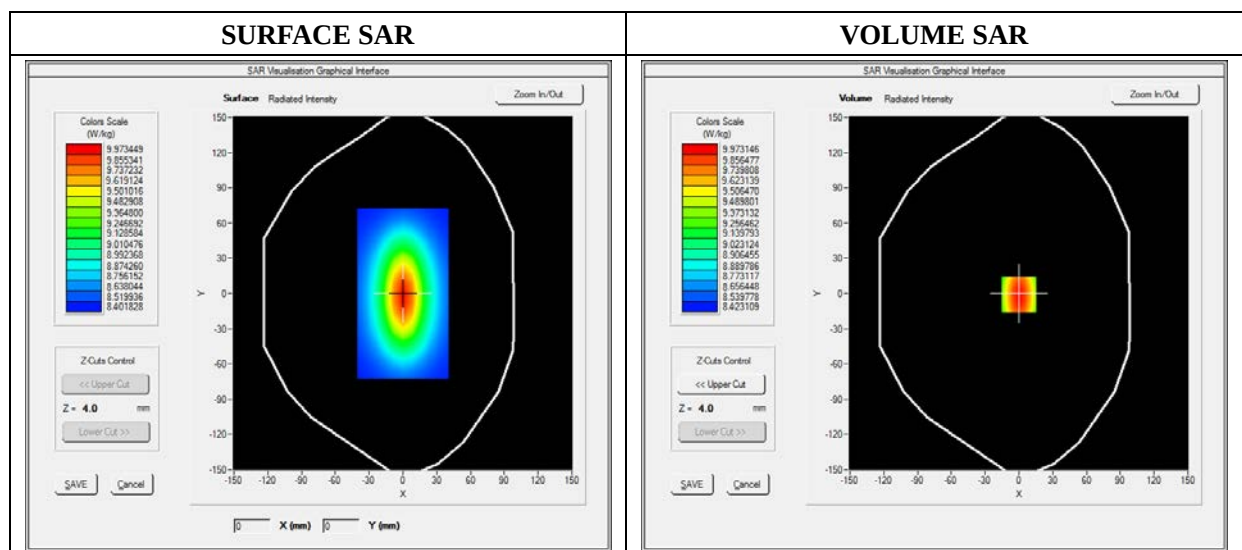
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.126780
Ambient Temperature	21.1
Liquid Temperature	21.3

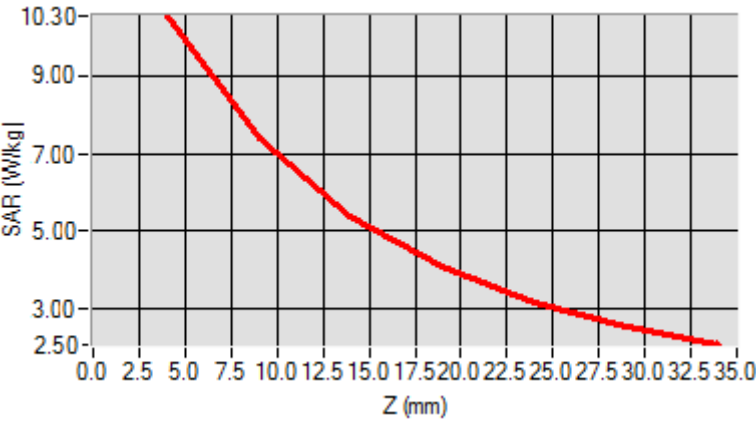


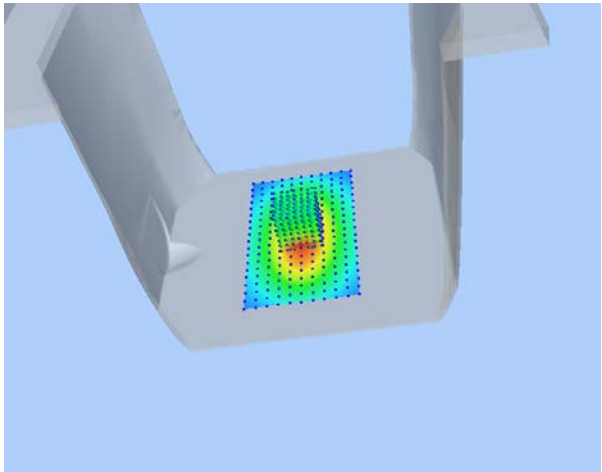
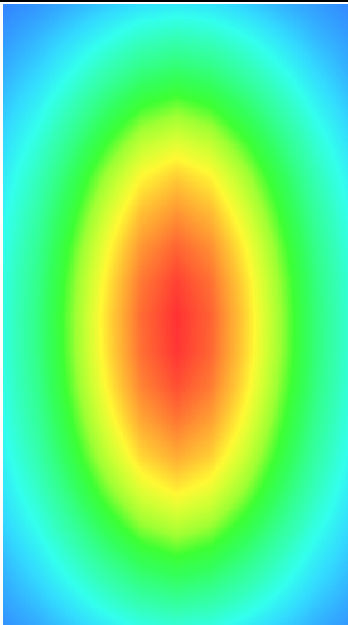
Maximum location: X=0.00, Y=0.00

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

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2354	6.8400	5.0121	4.1189	3.0522	2.8424



3D screen shot	Hot spot position
	

MEASUREMENT 3

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

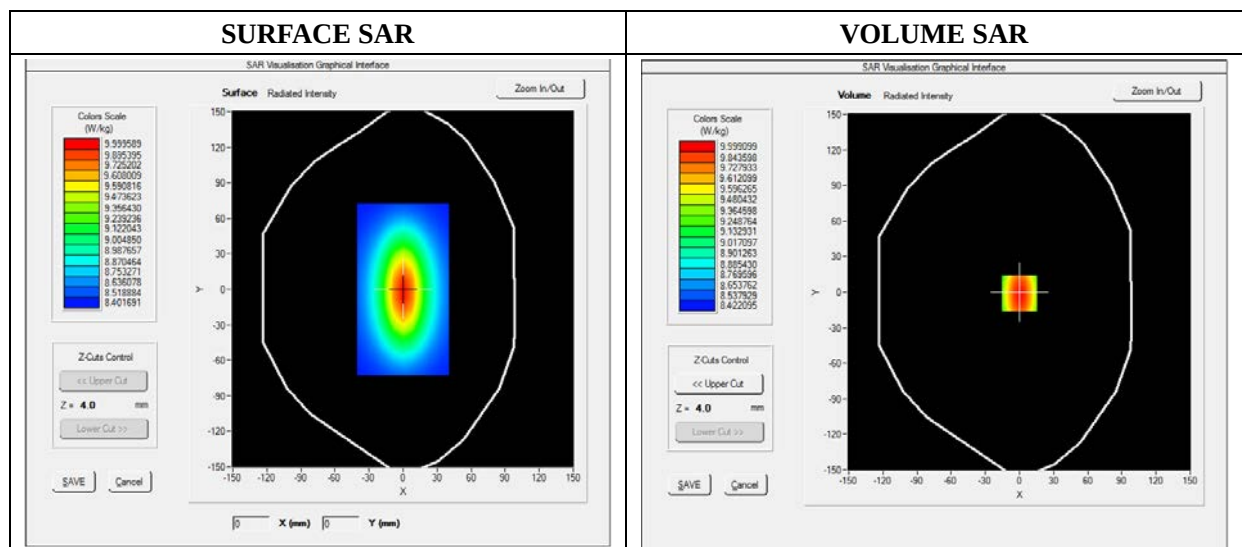
A. Experimental conditions

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

B. SAR Measurement Results

Middle Band SAR

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	38.611212
Conductivity (S/m)	1.763146
Power Variation (%)	1.237090
Ambient Temperature	21.4
Liquid Temperature	21.2

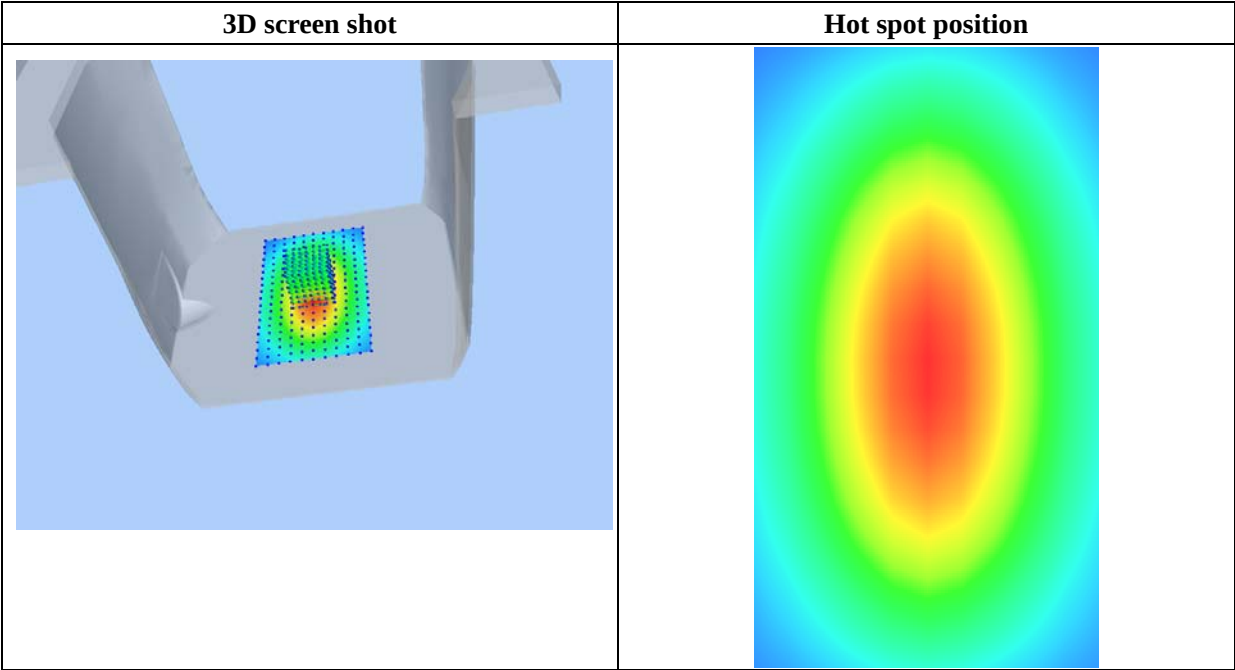
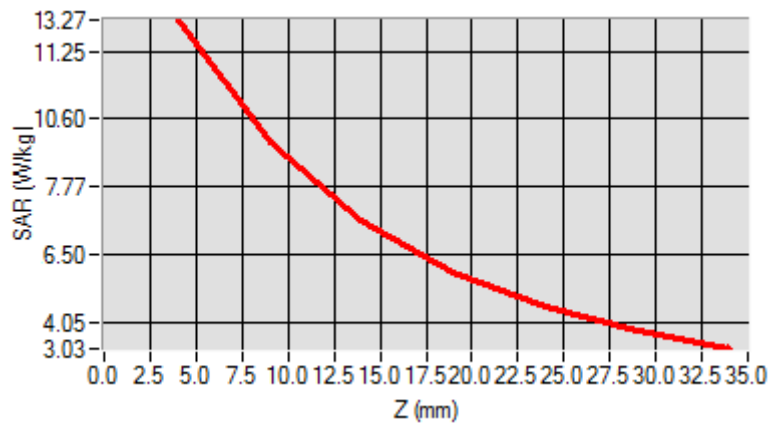


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	7.173428
SAR 1g (W/Kg)	13.442277

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	13.1145	10.7782	8.7531	6.9641	5.6433	3.5341



MEASUREMENT 4

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 21 seconds

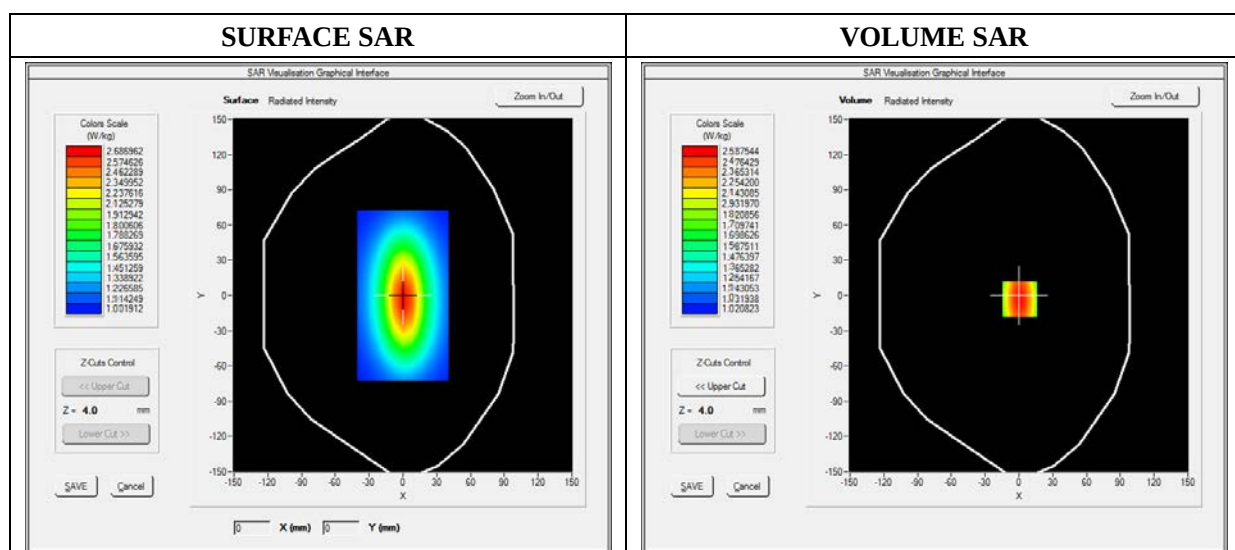
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.568902
Ambient Temperature	21.1
Liquid Temperature	21.3

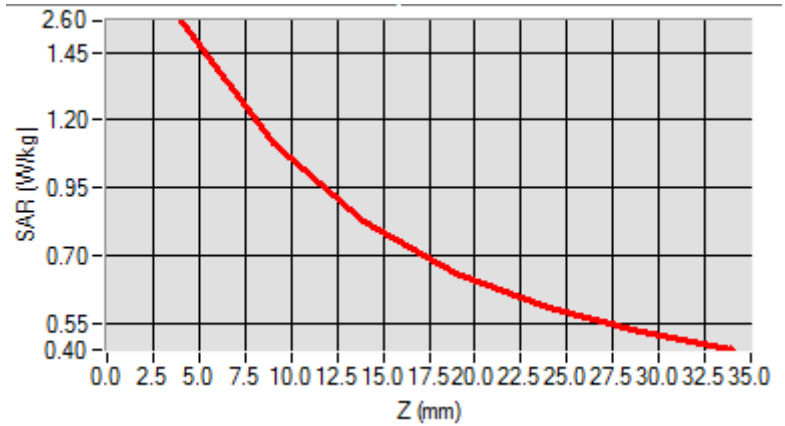


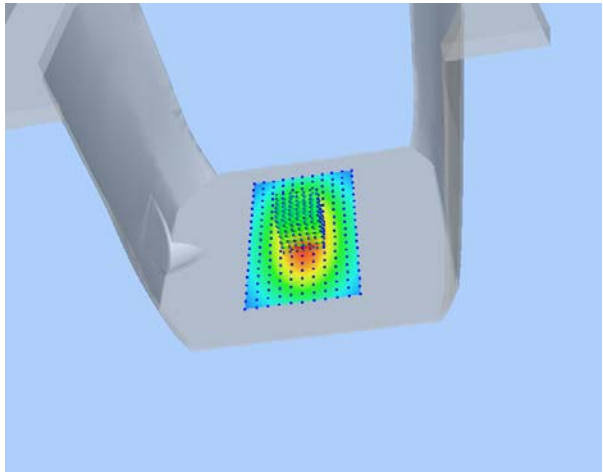
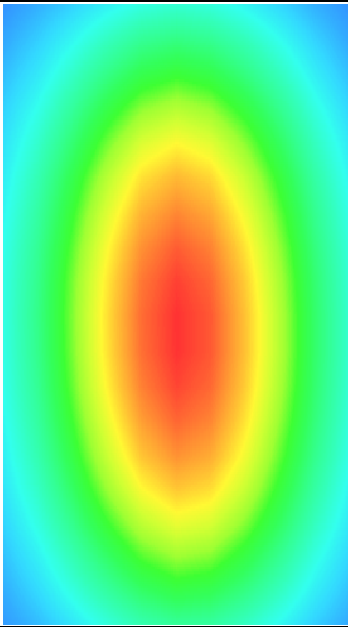
Maximum location: X=0.00, Y=0.00

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

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.5789	1.1300	0.8795	0.5940	0.5011	0.5100



3D screen shot	Hot spot position
	

MEASUREMENT 5

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 21 seconds

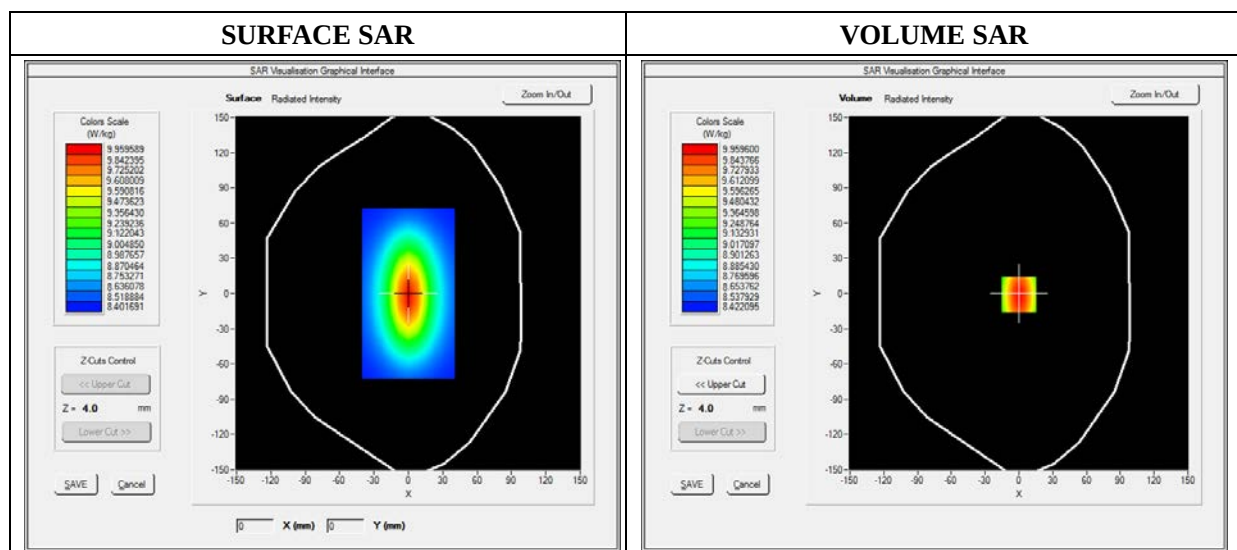
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.579072
Ambient Temperature	21.1
Liquid Temperature	21.3

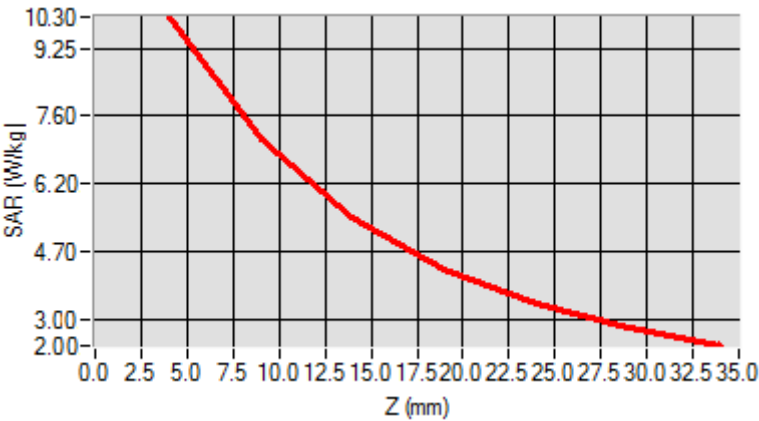


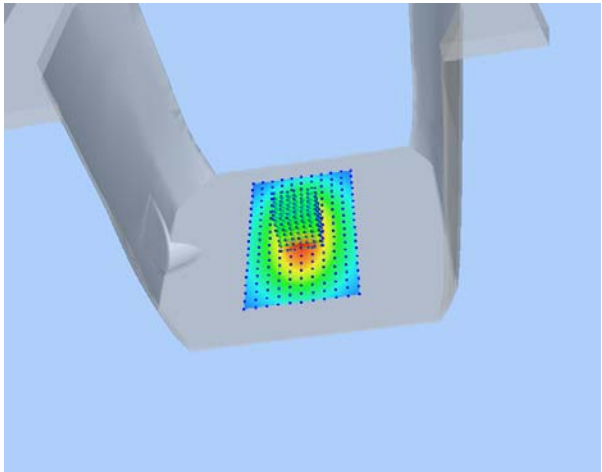
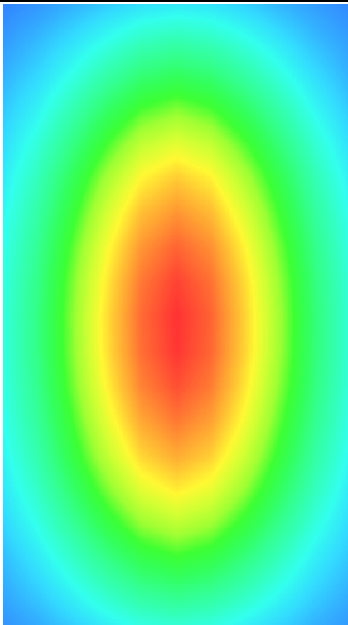
Maximum location: X=0.00, Y=0.00

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

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2031	6.43001	4.9011	4.5325	3.1201	2.5024



3D screen shot	Hot spot position
	

MEASUREMENT 6

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 21 seconds

E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

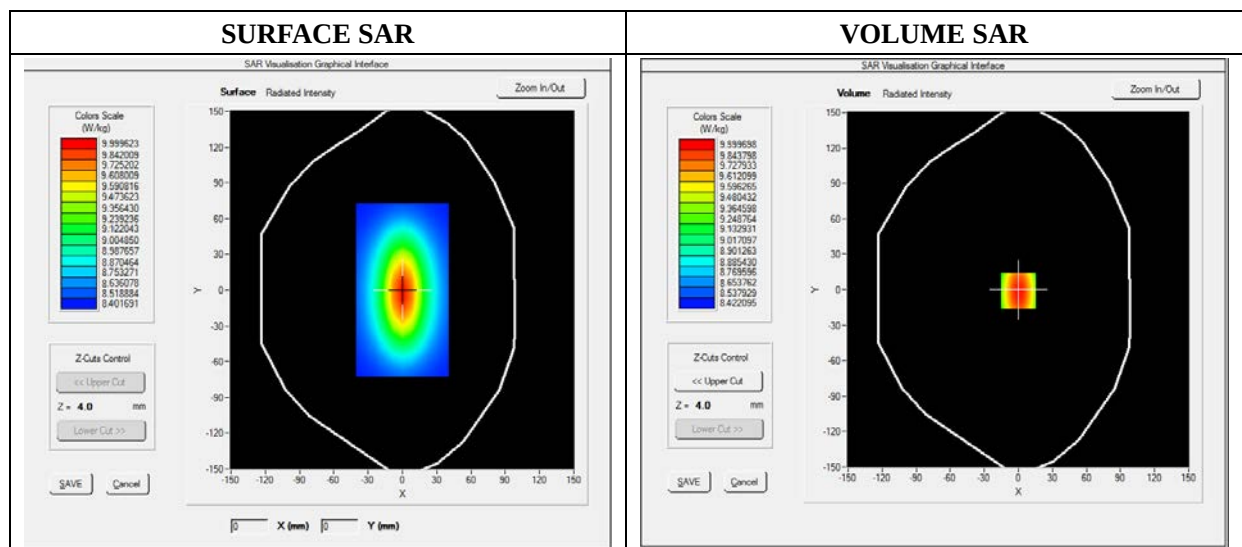
A. Experimental conditions

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

B. SAR Measurement Results

Middle Band SAR

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	52.324633
Conductivity (S/m)	2.002385
Power Variation (%)	0.457809
Ambient Temperature	21.3
Liquid Temperature	21.2

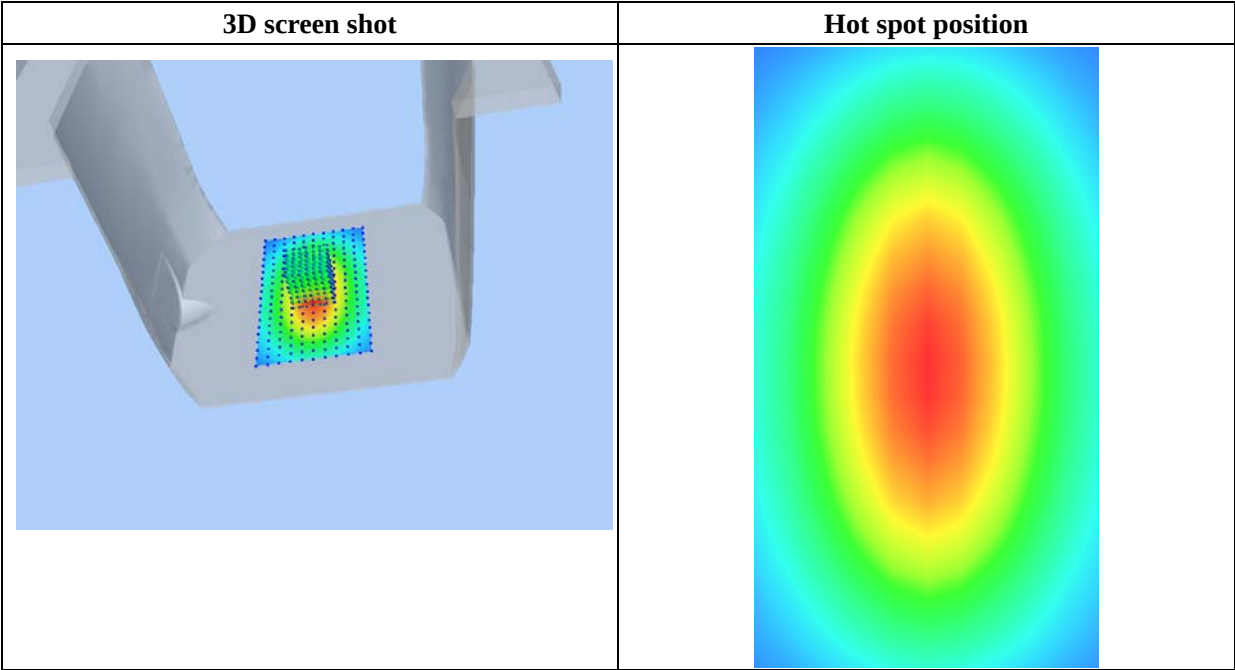
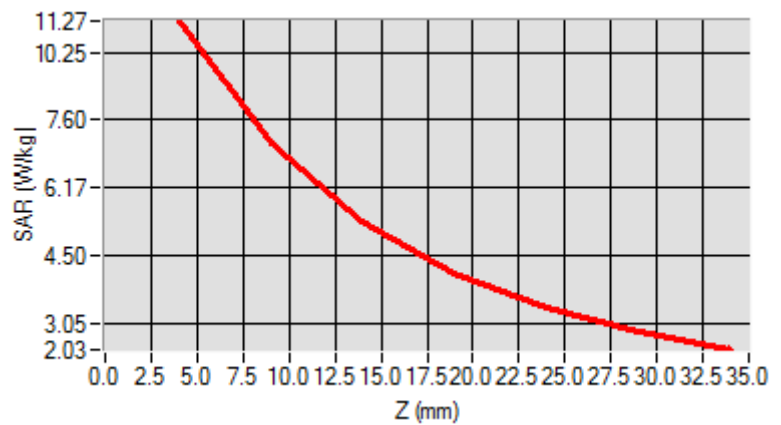


Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	6.131337
SAR 1g (W/Kg)	12.58272

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.2013	10.0043	9.232	8.5424	6.3445	4.4642



Annex B. Plots of SAR Measurement

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
Phone	GSM850	<u>Measurement 1:</u> Right Head with Cheek device position on Low Channel in GSM mode
Phone	GSM850	<u>Measurement 2:</u> Right Head with Tilt device position on Low Channel in GSM mode
Phone	GSM850	<u>Measurement 3:</u> Left Head with Cheek device position on Low Channel in GSM mode
Phone	GSM850	<u>Measurement 4:</u> Left Head with Tilt device position on Low Channel in GSM mode
Phone	GSM850	<u>Measurement 5:</u> Flat Plane with Back(Body-worn) device position on Low Channel in GSM mode
Phone	GSM850	<u>Measurement 6:</u> Flat Plane with Back(Body-worn) device position on Middle Channel in GSM mode
Phone	GSM850	<u>Measurement 7:</u> Flat Plane with Back(Body-worn) device position on High Channel in GSM mode
Phone	GSM850	<u>Measurement 8:</u> Flat Plane with Front(Body-worn) device position on Low Channel in GSM mode
Phone	GPRS850_3TX	<u>Measurement 9:</u> Flat Plane with Back device position on Low Channel in GPRS mode
Phone	GPRS850_3TX	<u>Measurement 10:</u> Flat Plane with Front device position on Low Channel in GPRS mode
Phone	GPRS850_3TX	<u>Measurement 11:</u> Flat Plane with Bottom side device position on Low Channel in GPRS mode
Phone	GPRS850_3TX	<u>Measurement 12:</u> Flat Plane with Right side device position on Low Channel in GPRS mode
Phone	GPRS850_3TX	<u>Measurement 13:</u> Flat Plane with Left side device position on Low Channel in GPRS mode
Phone	GSM1900	<u>Measurement 14:</u> Right Head with Cheek device position on High Channel in GSM mode
Phone	GSM1900	<u>Measurement 15:</u> Right Head with Tilt device position on High Channel in GSM mode
Phone	GSM1900	<u>Measurement 16:</u> Left Head with Cheek device position on High Channel in GSM mode
Phone	GSM1900	<u>Measurement 17:</u> Left Head with Tilt device position on High Channel in GSM mode
Phone	GSM1900	<u>Measurement 18:</u> Flat Plane with Back(Body-worn) device position on High Channel in GSM mode
Phone	GSM1900	<u>Measurement 19:</u> Flat Plane with Front(Body-worn) device position on High Channel in GSM mode

Phone	GPRS1900_3TX	<u>Measurement 20:</u> Flat Plane with Back device position on High Channel in GPRS mode
Phone	GPRS1900_3TX	<u>Measurement 21:</u> Flat Plane with Front device position on High Channel in GPRS mode
Phone	GPRS1900_3TX	<u>Measurement 22:</u> Flat Plane with Bottom side device position on High Channel in GPRS mode
Phone	GPRS1900_3TX	<u>Measurement 23:</u> Flat Plane with Right side device position on High Channel in GPRS mode
Phone	GPRS1900_3TX	<u>Measurement 24:</u> Flat Plane with Left side device position on High Channel in GPRS mode
Phone	WCDMA850_RMC	<u>Measurement 25:</u> Right Head with Cheek device position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	<u>Measurement 26:</u> Right Head with Tilt device position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	<u>Measurement 27:</u> Left Head with Cheek device position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	<u>Measurement 28:</u> Left Head with Tilt device position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	<u>Measurement 29:</u> Flat Plane with Back device position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	<u>Measurement 30:</u> Flat Plane with Front device position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	<u>Measurement 31:</u> Flat Plane with Bottom side device position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	<u>Measurement 32:</u> Flat Plane with Right side device position on Middle Channel in WCDMA mode
Phone	WCDMA850_RMC	<u>Measurement 33:</u> Flat Plane with Left side device position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	<u>Measurement 34:</u> Right Head with Cheek device position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	<u>Measurement 35:</u> Right Head with Tilt device position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	<u>Measurement 36:</u> Left Head with Cheek device position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	<u>Measurement 37:</u> Left Head with Tilt device position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	<u>Measurement 38:</u> Flat Plane with Back device position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	<u>Measurement 39:</u> Flat Plane with Front device position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	<u>Measurement 40:</u> Flat Plane with Bottom side device position on Middle Channel in WCDMA mode
Phone	WCDMA1900_RMC	<u>Measurement 41:</u> Flat Plane with Right side device position on Middle Channel in WCDMA mode

Phone	WCDMA1900_RMC	<u>Measurement 42:</u> Flat Plane with Left side device position on Middle Channel in WCDMA mode
Phone	WiFi_802.11b	<u>Measurement 43:</u> Right Head with Cheek device position on High Channel in WIFI mode
Phone	WiFi_802.11b	<u>Measurement 44:</u> Right Head with Tilt device position on High Channel in WIFI mode
Phone	WiFi_802.11b	<u>Measurement 45:</u> Left Head with Cheek device position on High Channel in WIFI mode
Phone	WiFi_802.11b	<u>Measurement 46:</u> Left Head with Tilt device position on High Channel in WIFI mode
Phone	WiFi_802.11b	<u>Measurement 47:</u> Flat Plane with Back side device position on High Channel in WIFI mode
Phone	WiFi_802.11b	<u>Measurement 48:</u> Flat Plane with Front side device position on High Channel in WIFI mode
Phone	WiFi_802.11b	<u>Measurement 49:</u> Flat Plane with Top side device position on High Channel in WIFI mode
Phone	WiFi_802.11b	<u>Measurement 50:</u> Flat Plane with Left side device position on High Channel in WIFI mode

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

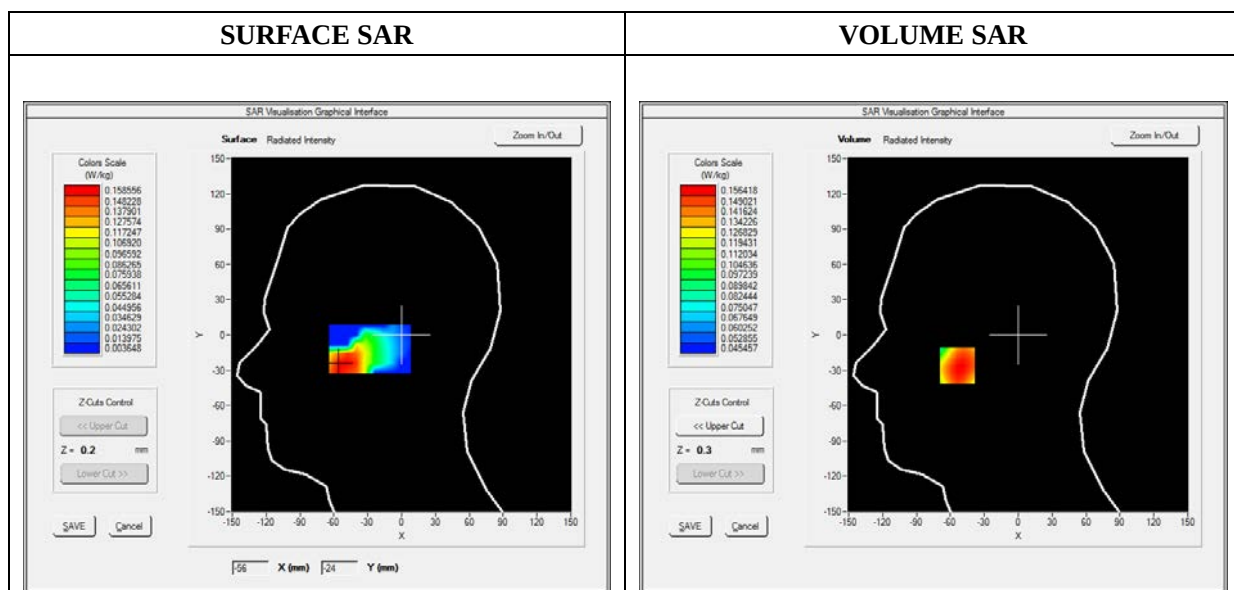
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

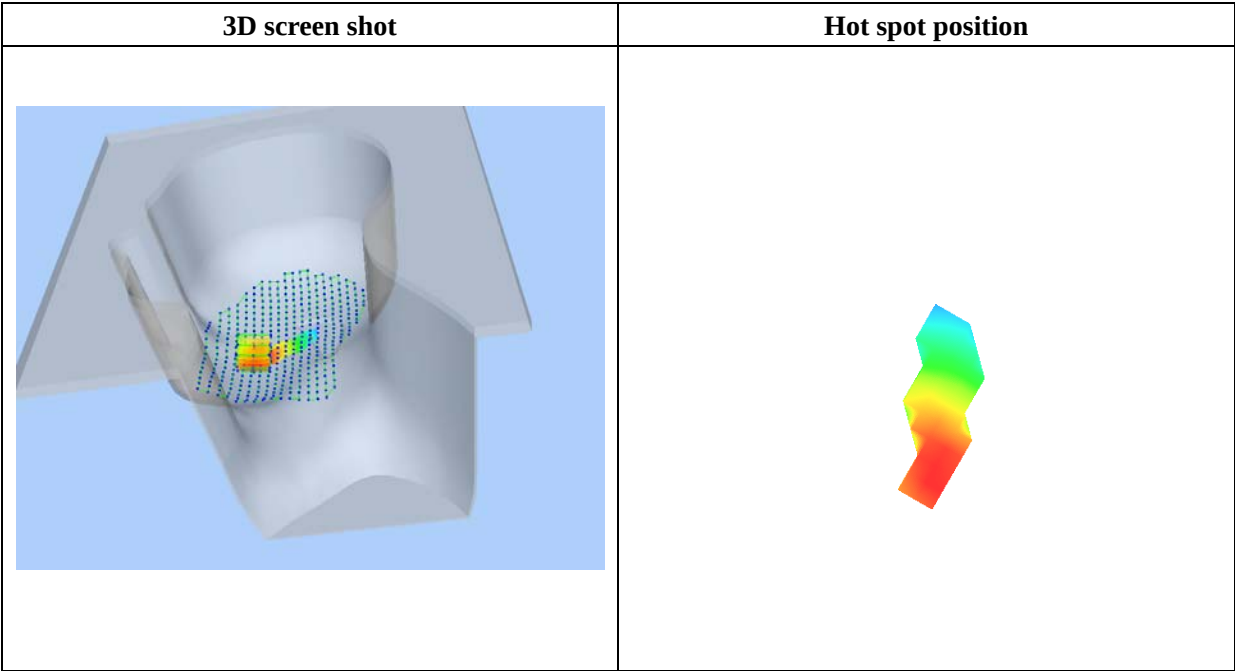
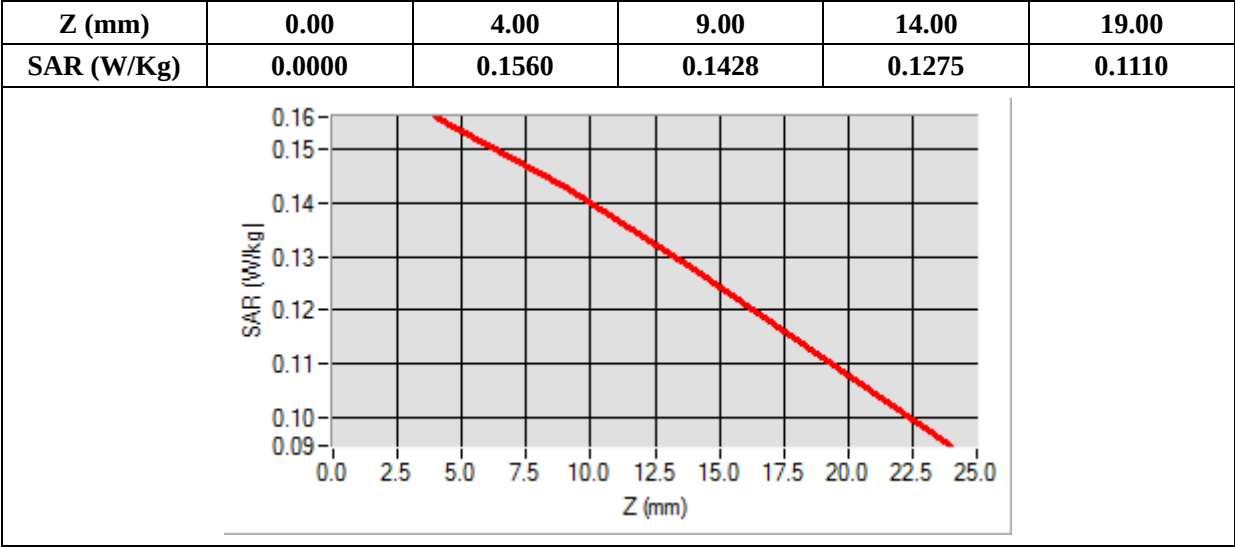
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.815609
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-54.00, Y=-26.00

SAR 10g (W/Kg)	0.129586
SAR 1g (W/Kg)	0.154588



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

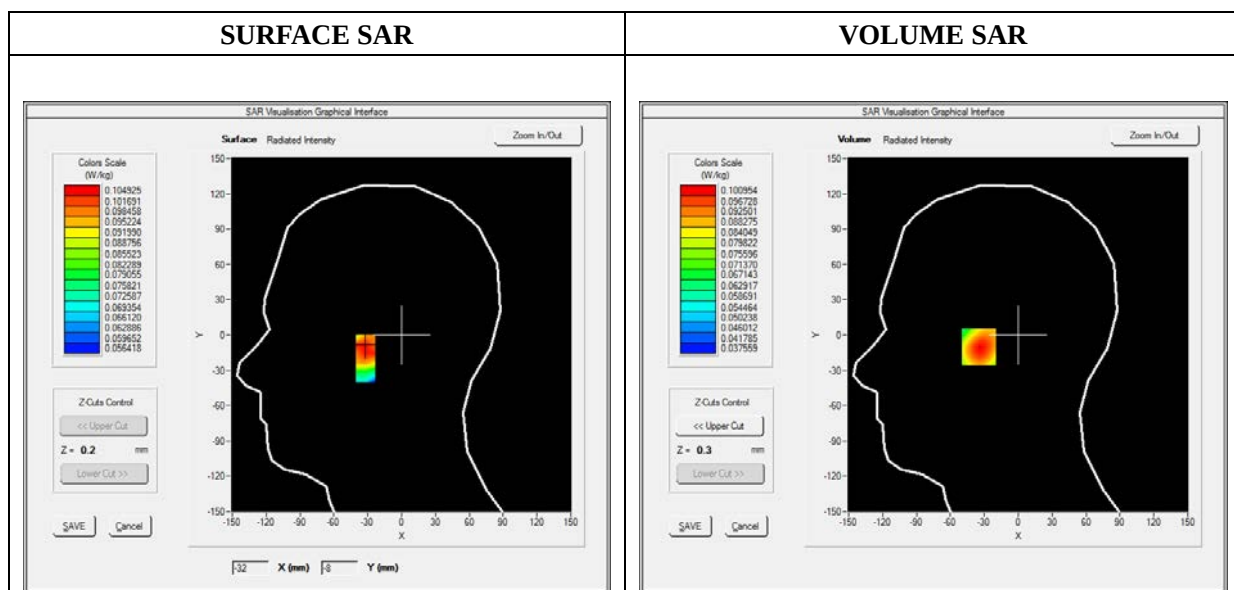
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

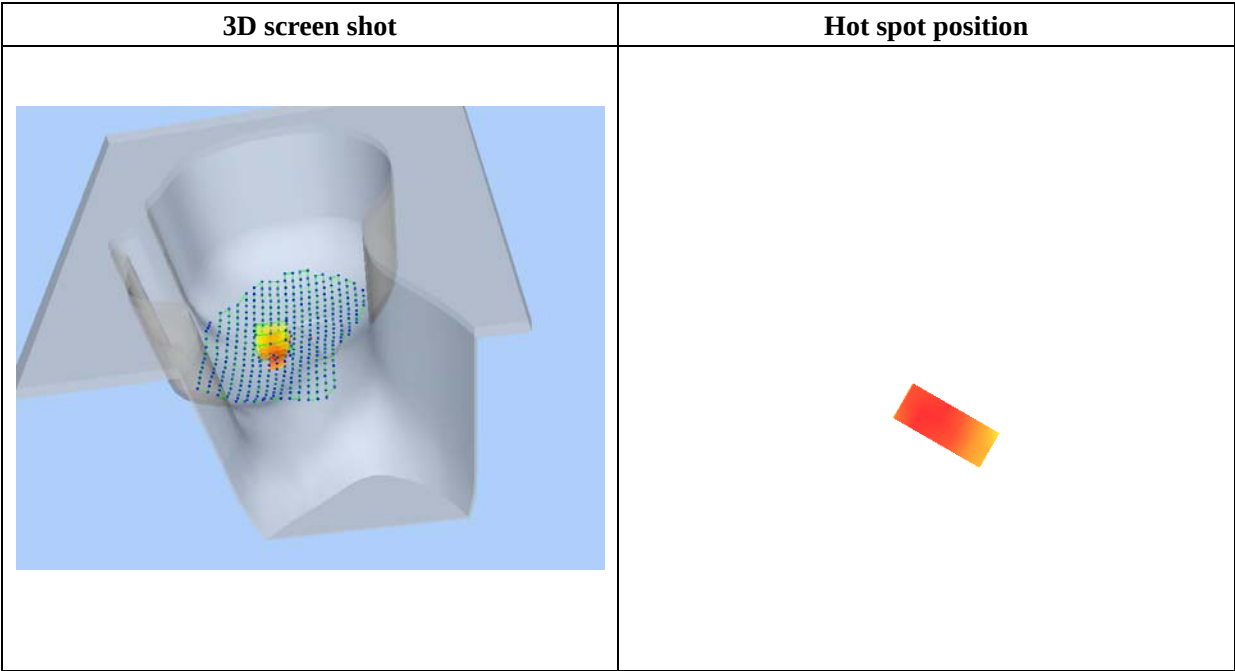
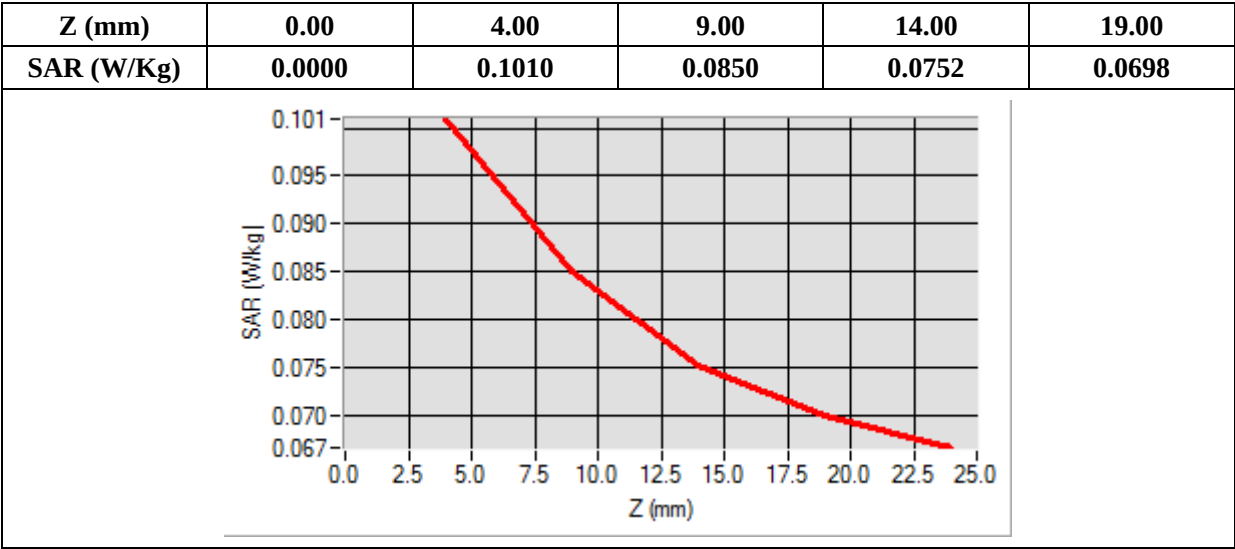
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.835490
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-34.00, Y=-10.00

SAR 10g (W/Kg)	0.079834
SAR 1g (W/Kg)	0.097882



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 11 minutes 48 seconds

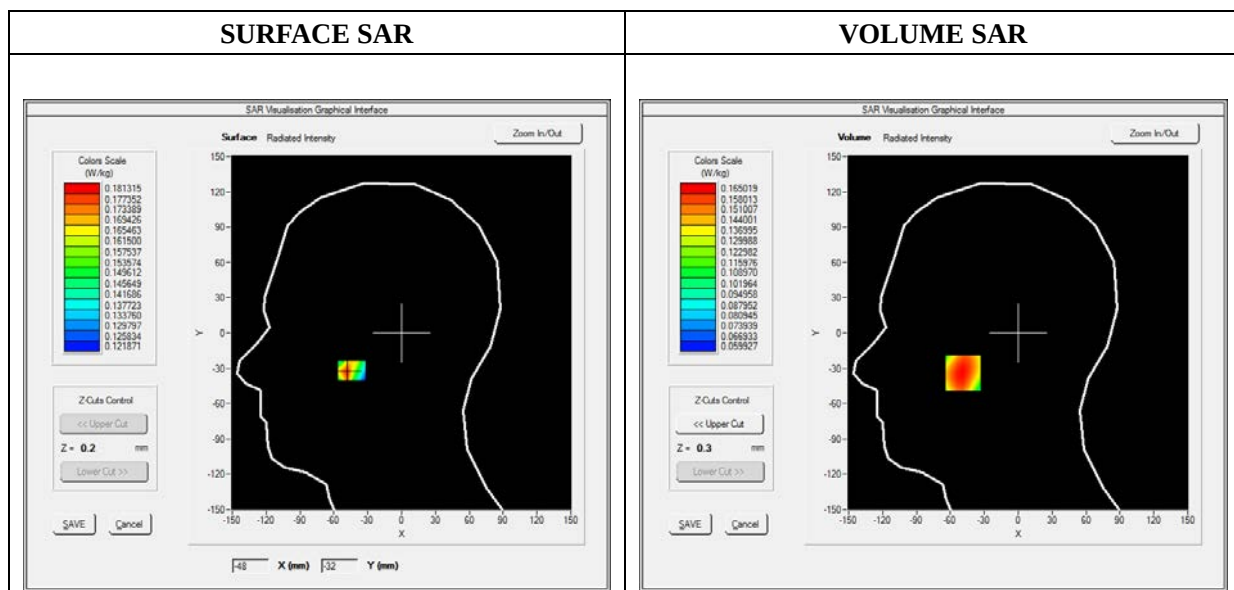
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

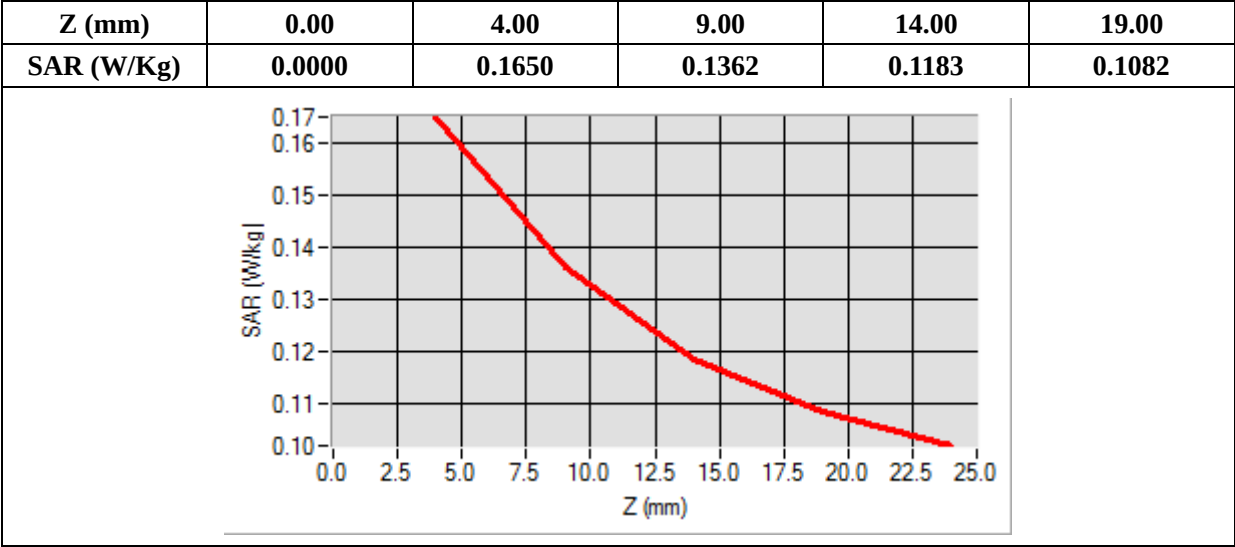
B. SAR Measurement Results

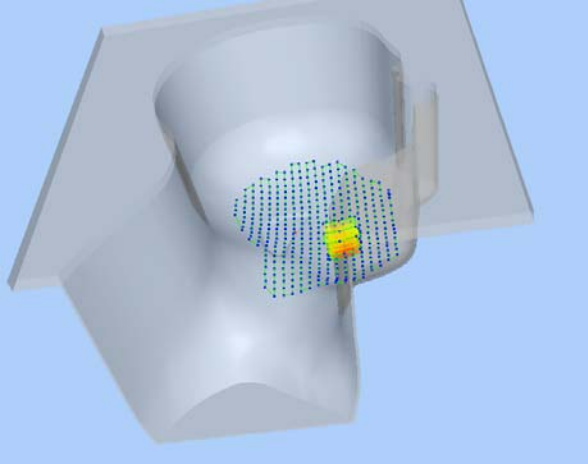
Frequency (MHz)	824.200012
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.493780
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-49.00, Y=-34.00

SAR 10g (W/Kg)	0.129908
SAR 1g (W/Kg)	0.160000



3D screen shot	Hot spot position
	

MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

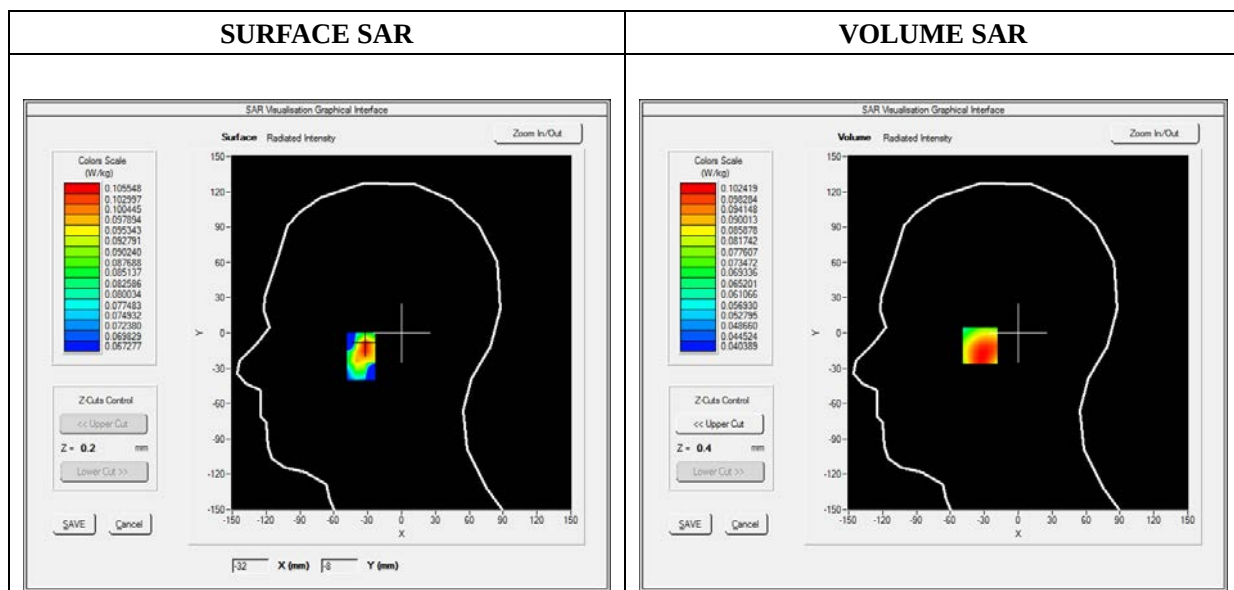
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

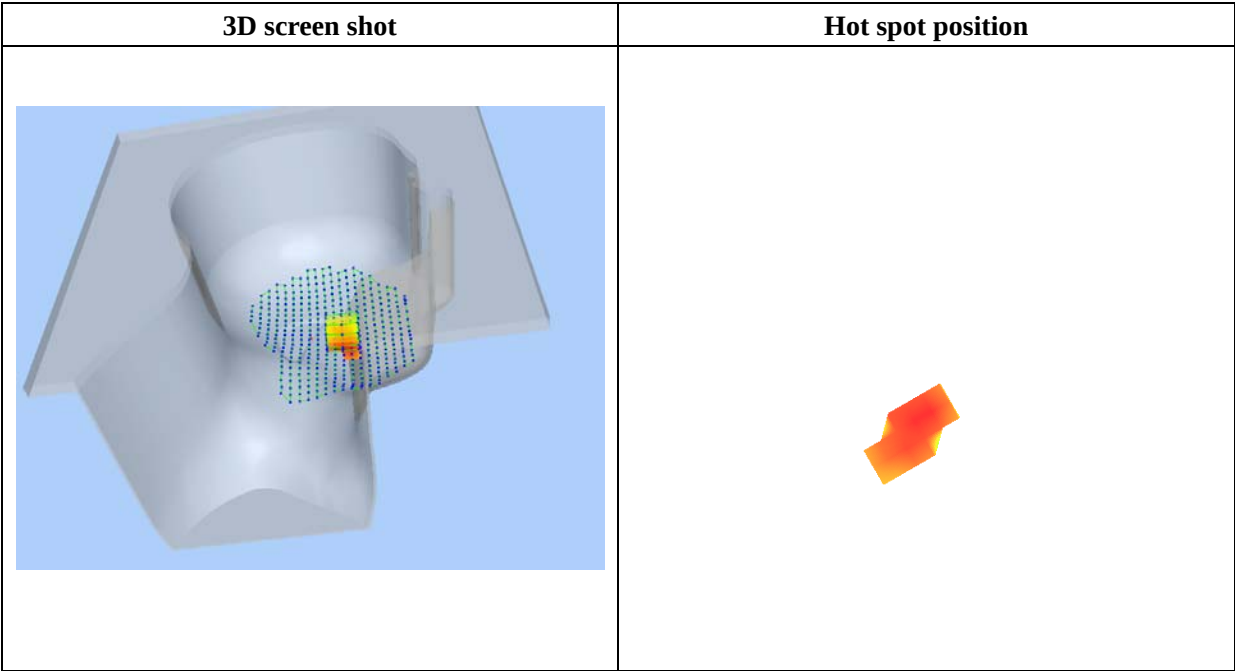
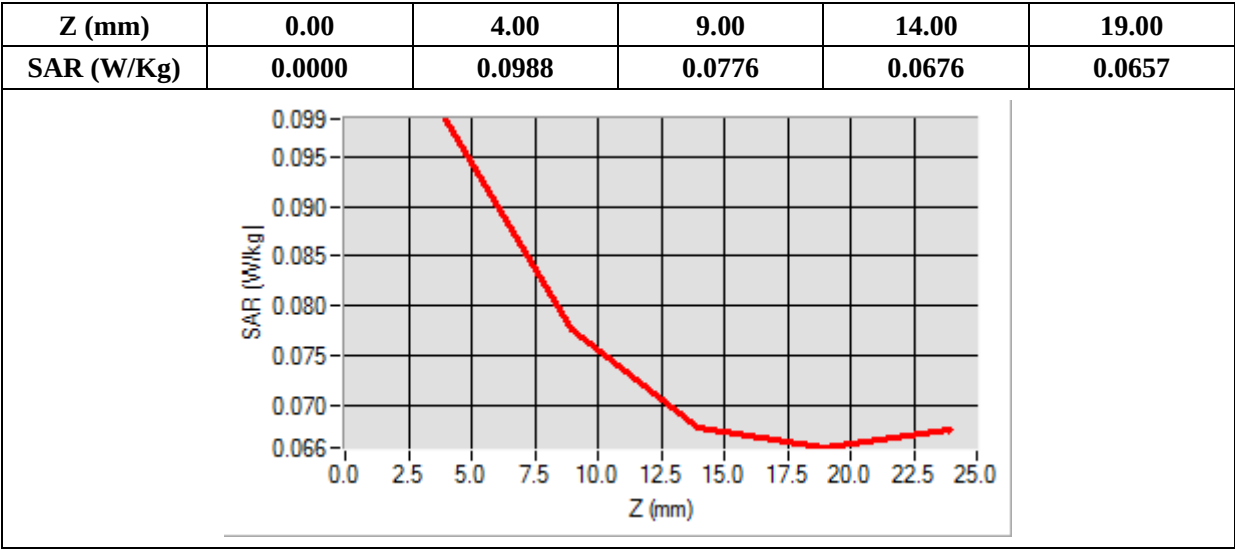
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.983890
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-32.00, Y=-11.00

SAR 10g (W/Kg)	0.079164
SAR 1g (W/Kg)	0.100001



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

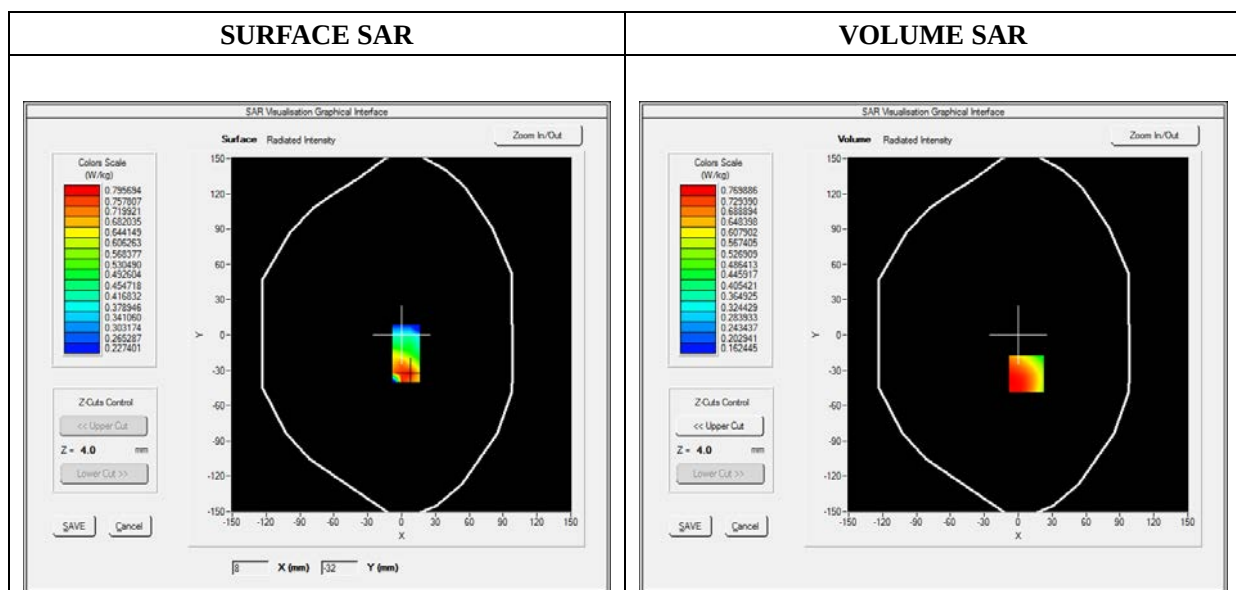
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

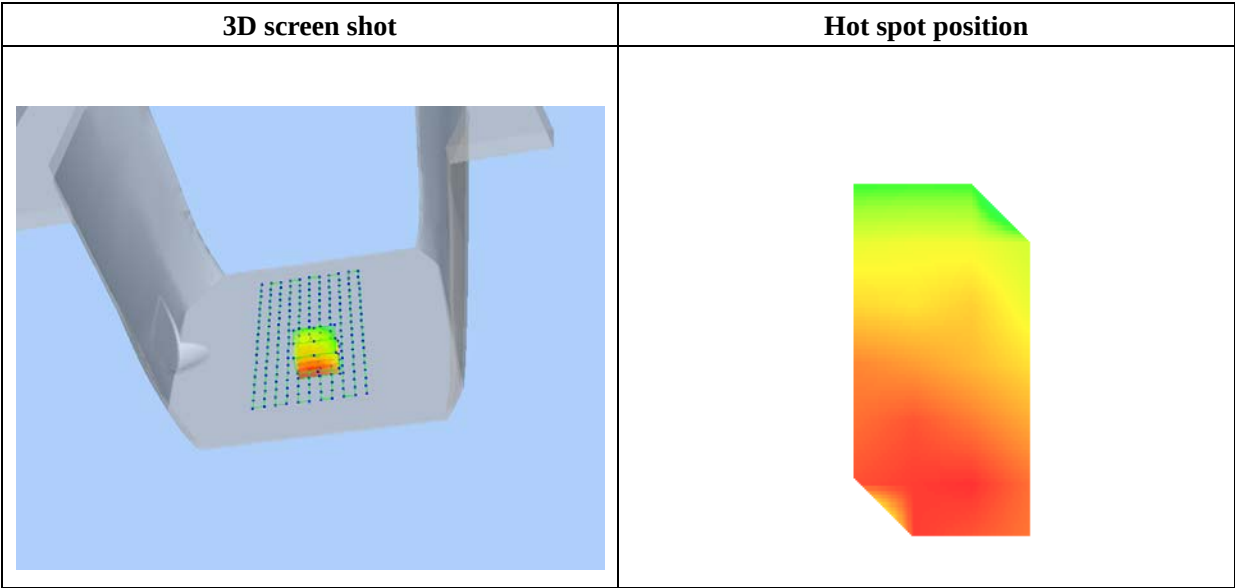
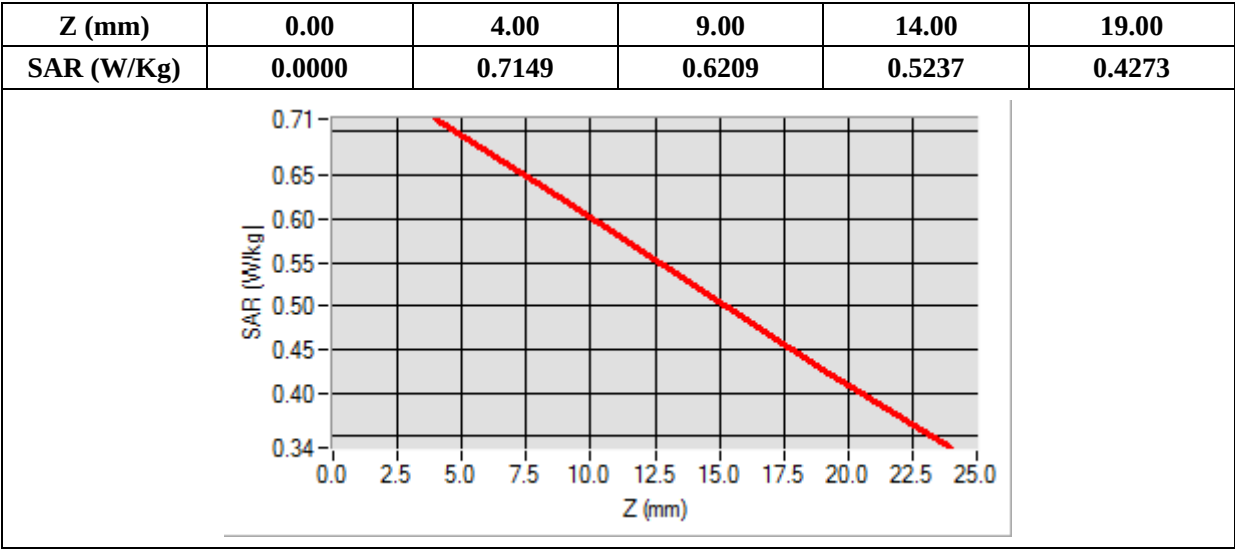
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.957890
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=-33.00

SAR 10g (W/Kg)	0.767810
SAR 1g (W/Kg)	0.977846



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

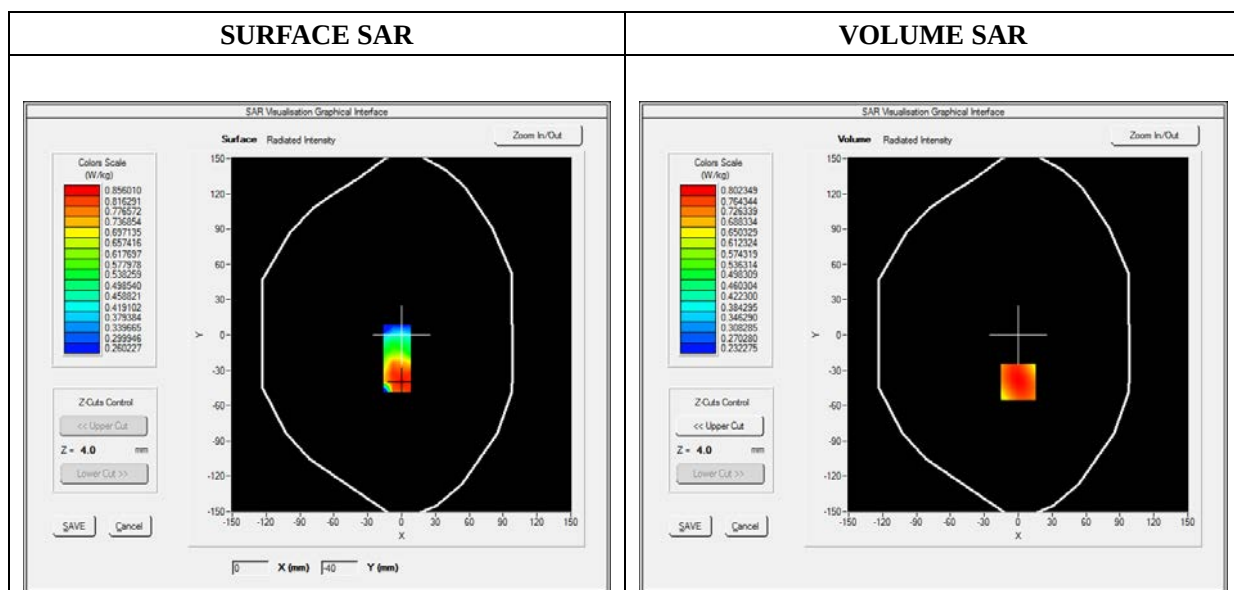
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

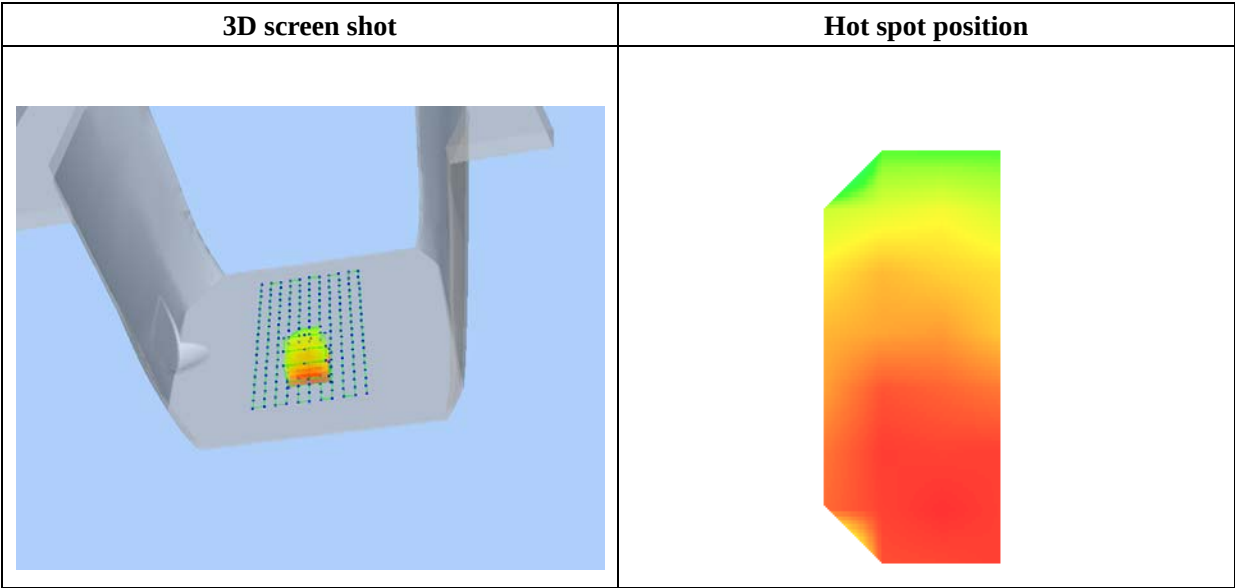
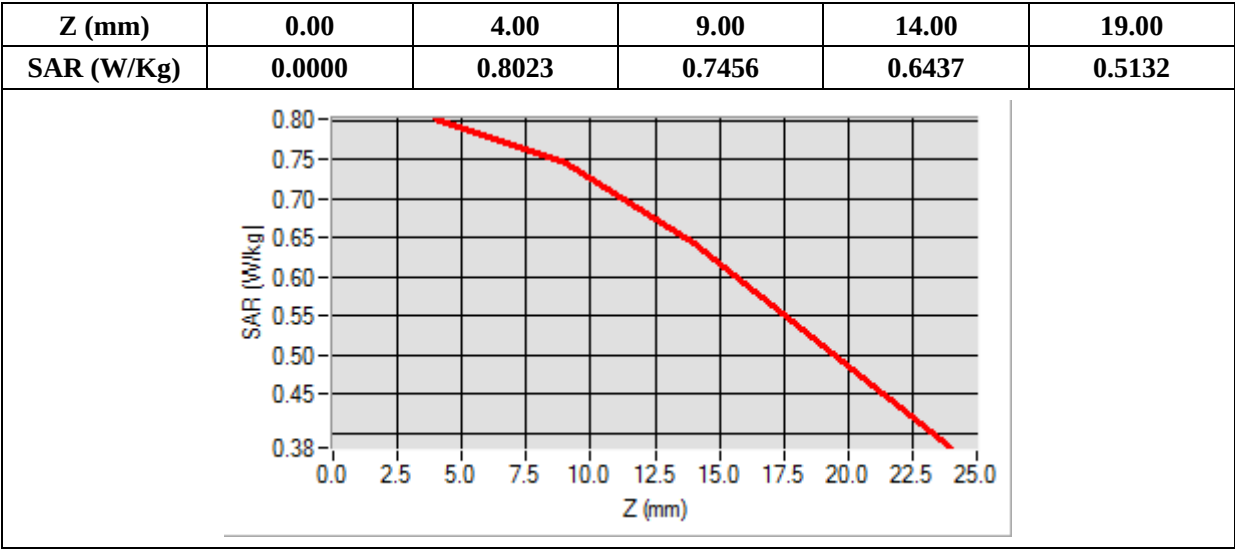
B. SAR Measurement Results

Frequency (MHz)	836.599976
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.763680
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=-40.00

SAR 10g (W/Kg)	0.772910
SAR 1g (W/Kg)	0.948139



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

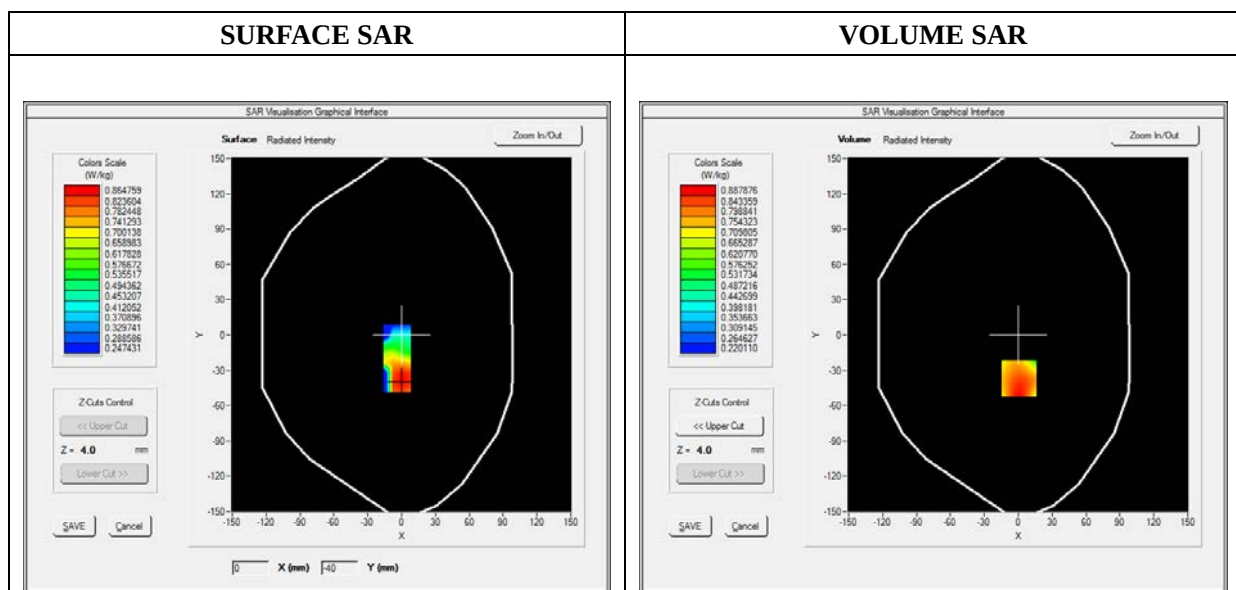
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

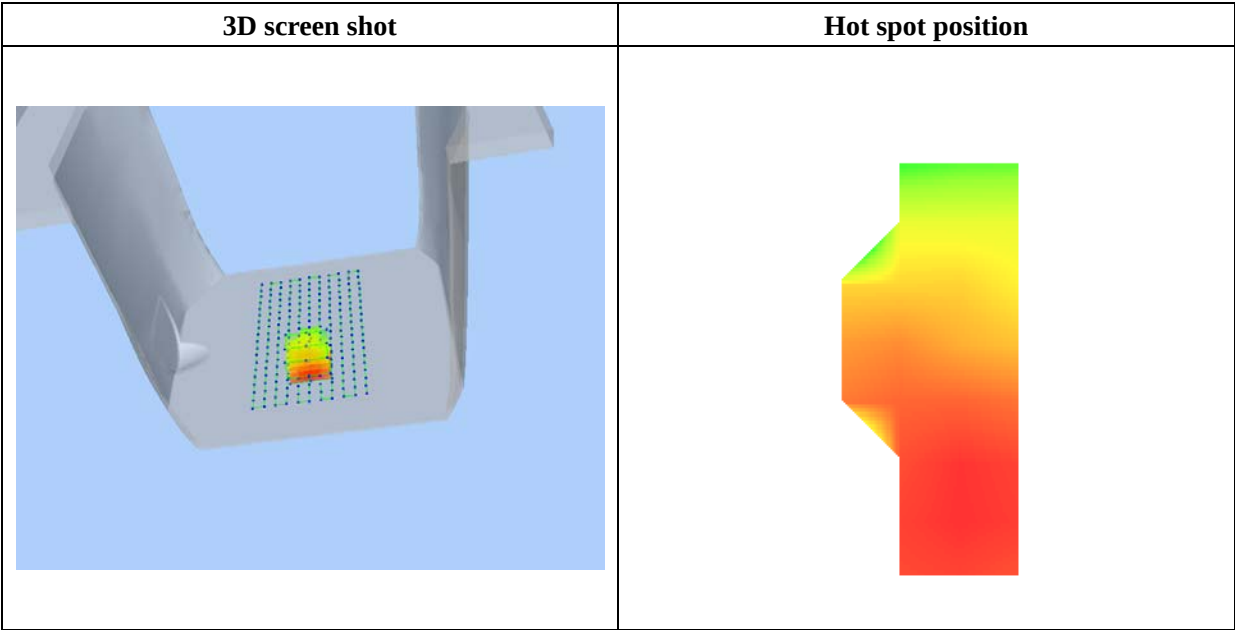
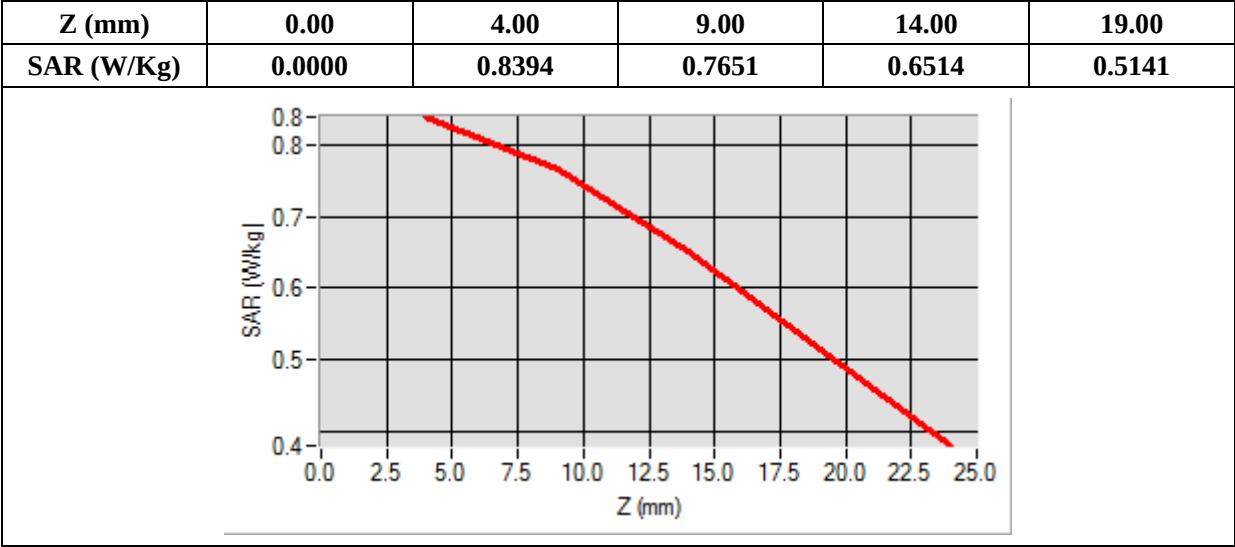
B. SAR Measurement Results

Frequency (MHz)	848.799988
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.536780
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=-37.00

SAR 10g (W/Kg)	0.785028
SAR 1g (W/Kg)	0.994397



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

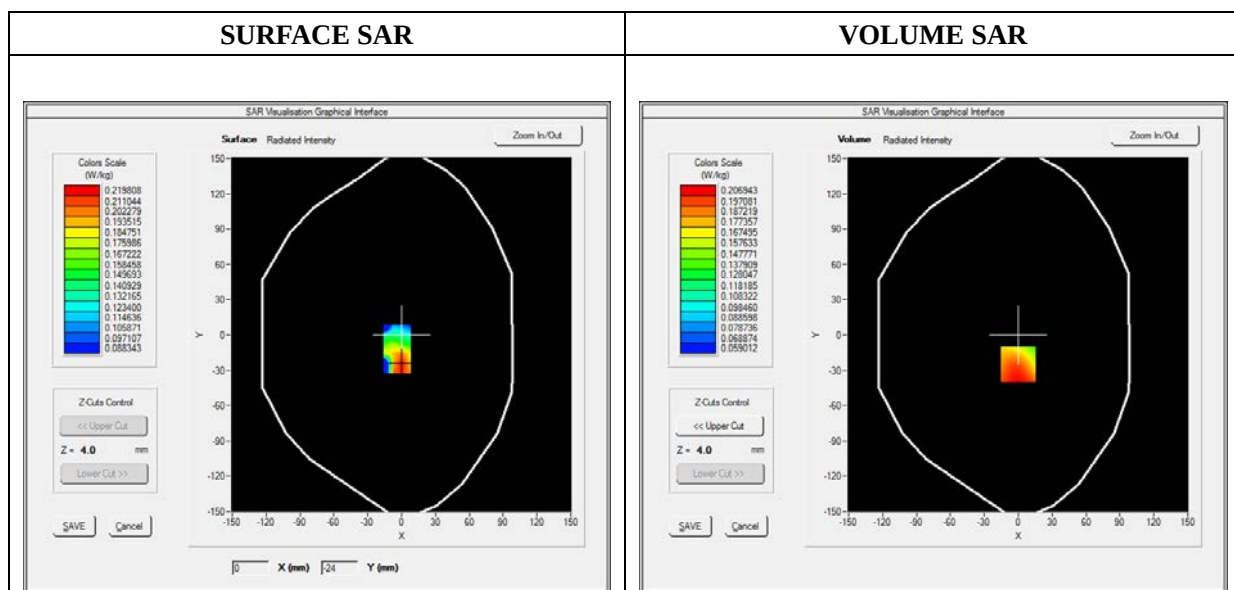
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

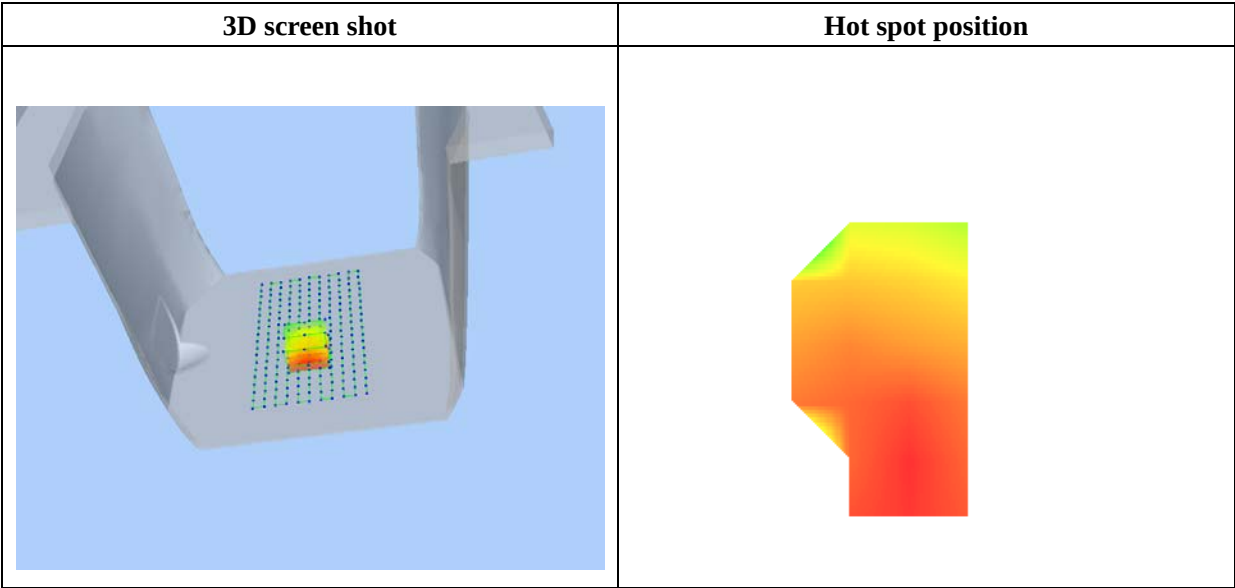
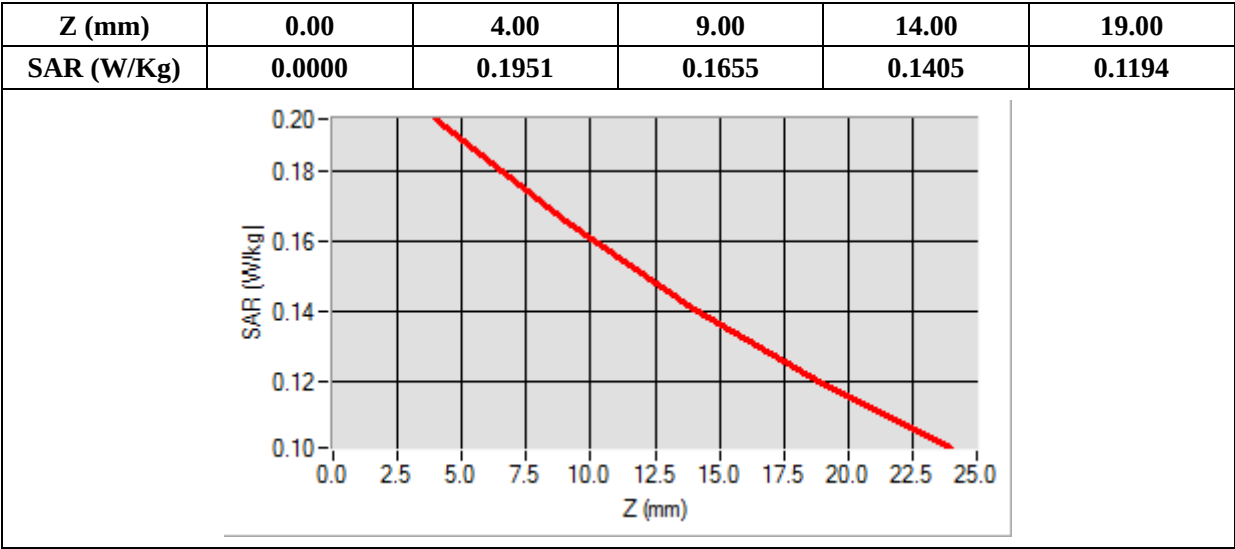
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.654680
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=-25.00

SAR 10g (W/Kg)	0.208583
SAR 1g (W/Kg)	0.255778



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

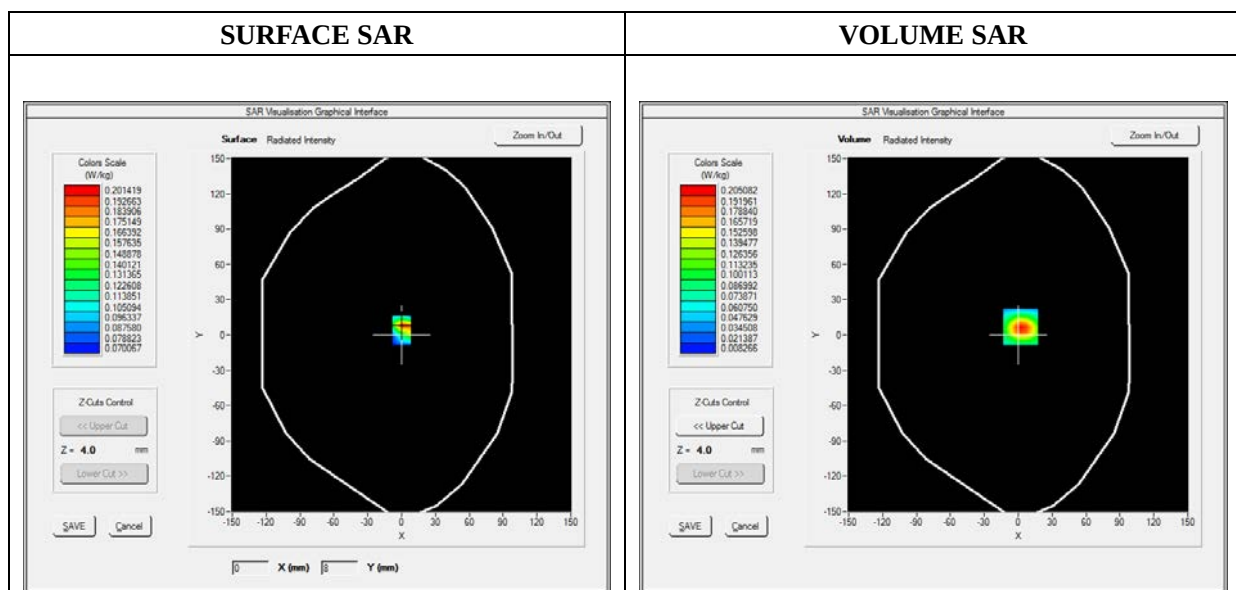
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Back
Band	GPRS850_3TX
Channels	Low
Signal	Duty Cycle 1:2

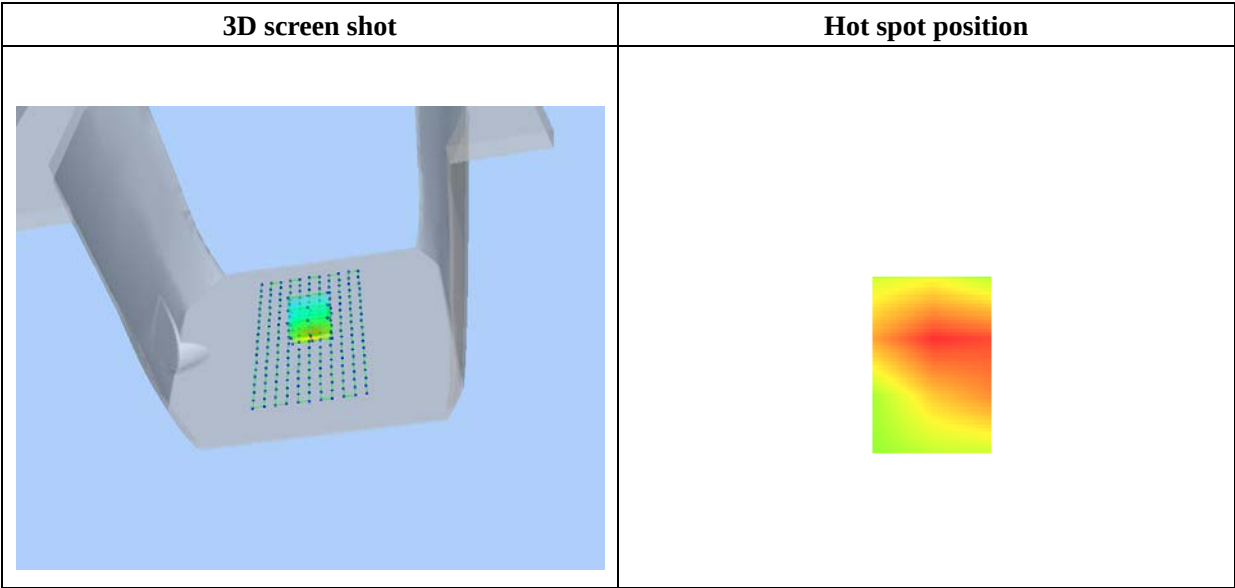
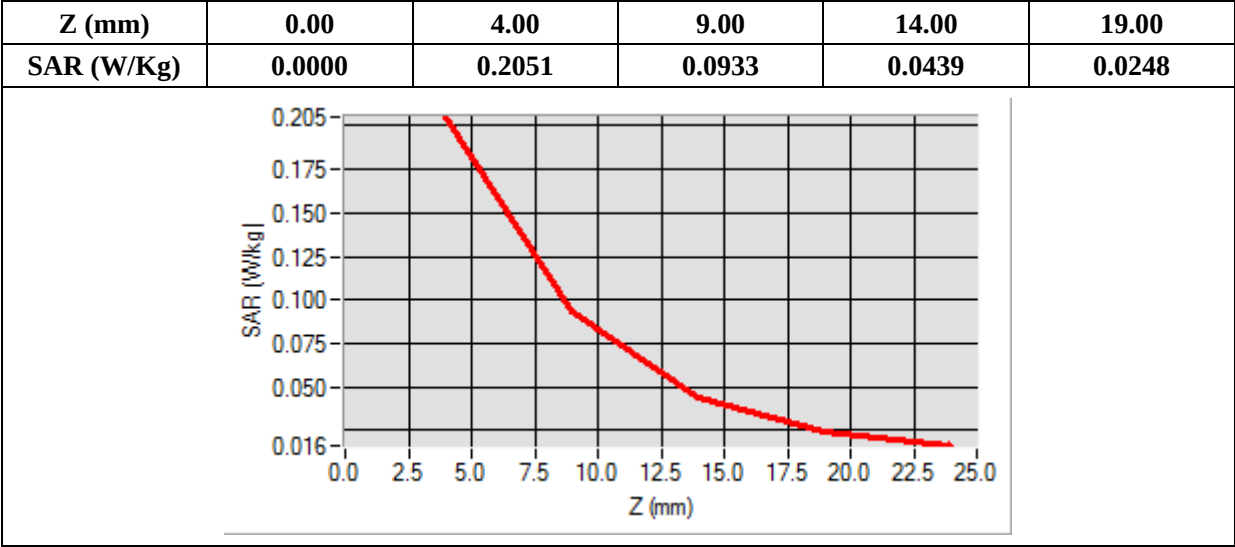
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.495780
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=2.00, Y=7.00

SAR 10g (W/Kg)	0.088540
SAR 1g (W/Kg)	0.186245



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

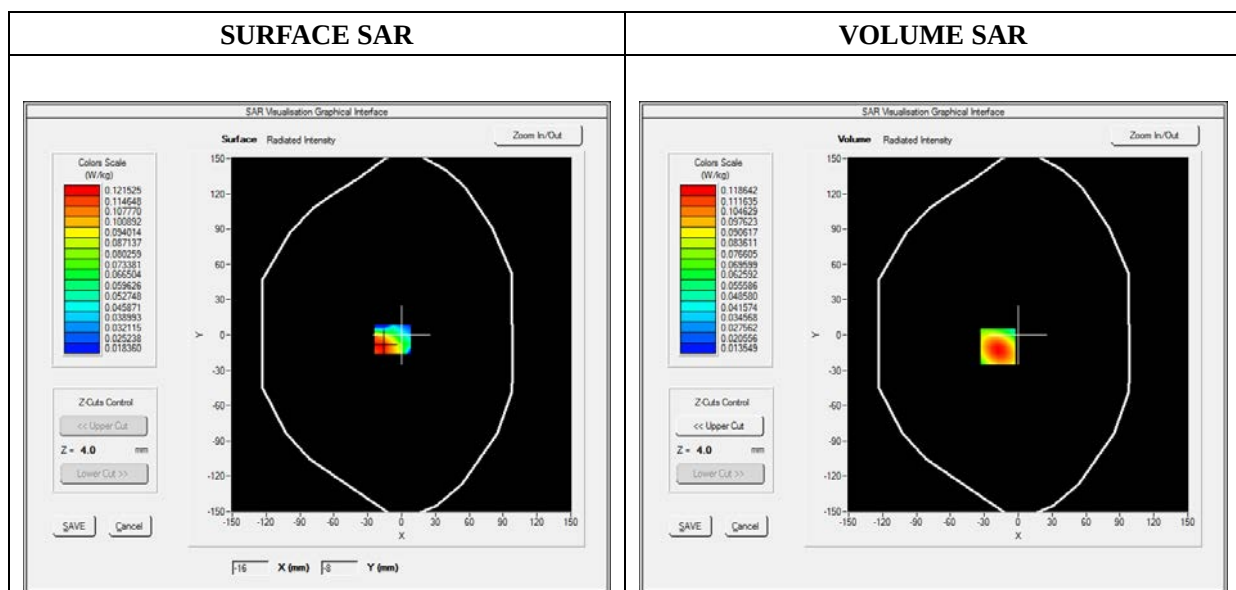
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Front
Band	GPRS850_3TX
Channels	Low
Signal	Duty Cycle 1:2

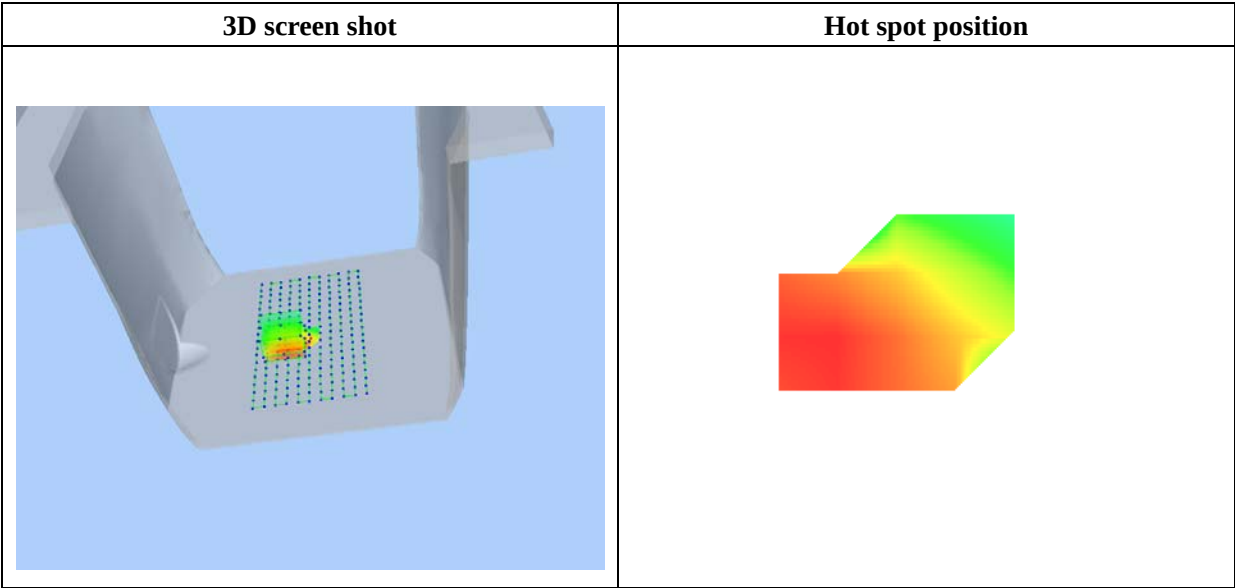
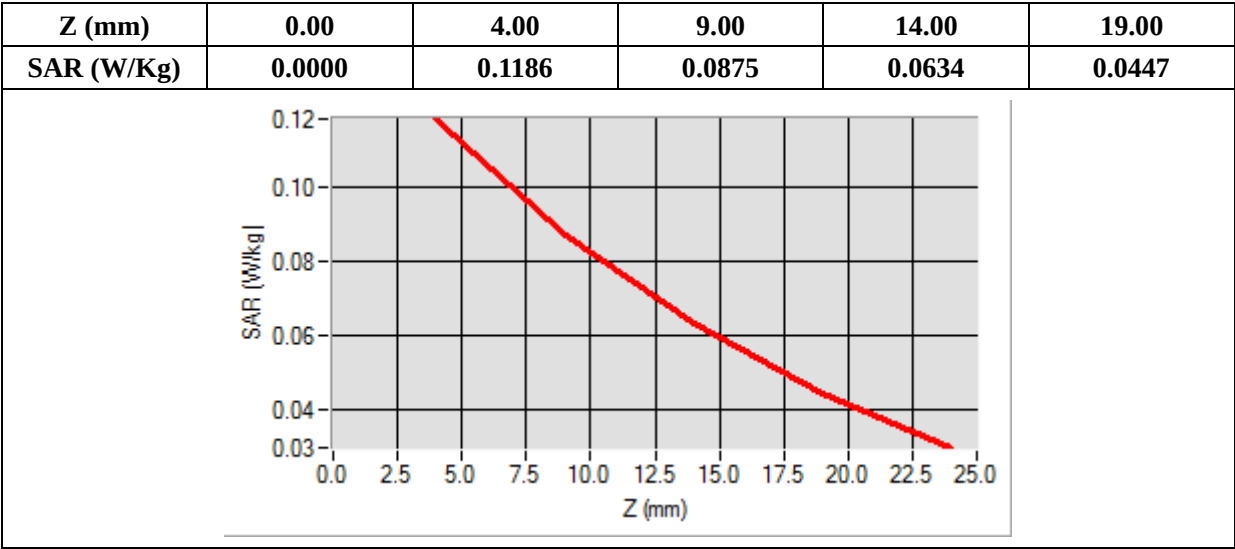
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.764560
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-18.00, Y=-10.00

SAR 10g (W/Kg)	0.077322
SAR 1g (W/Kg)	0.112728



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

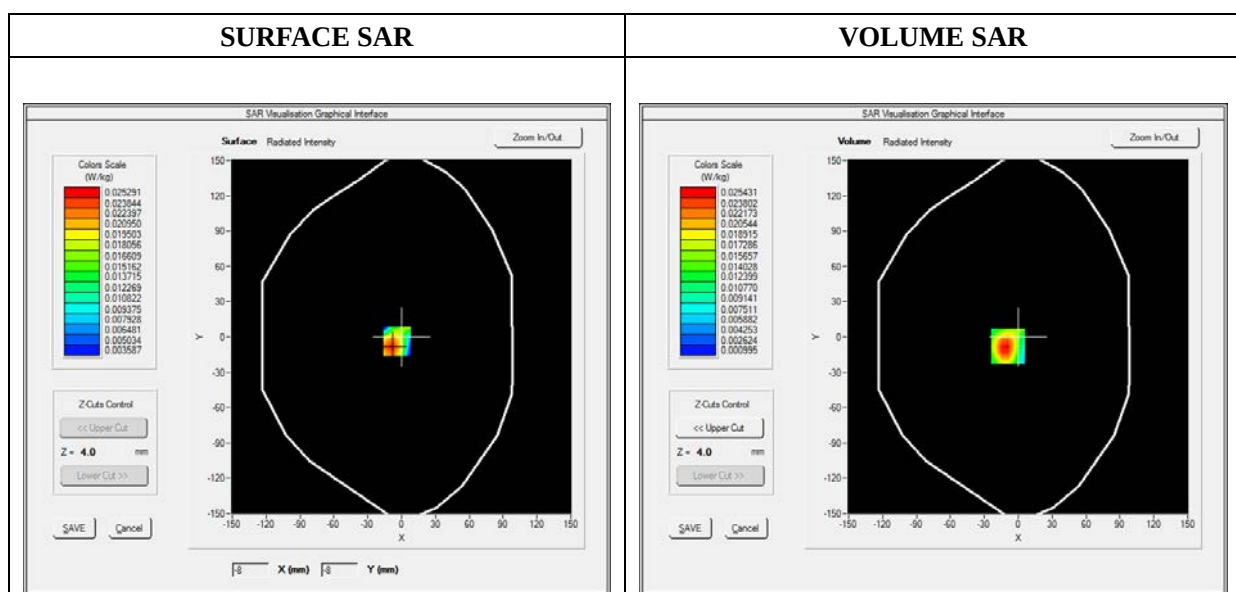
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Bottom
Band	GPRS850_3TX
Channels	Low
Signal	Duty Cycle 1:2

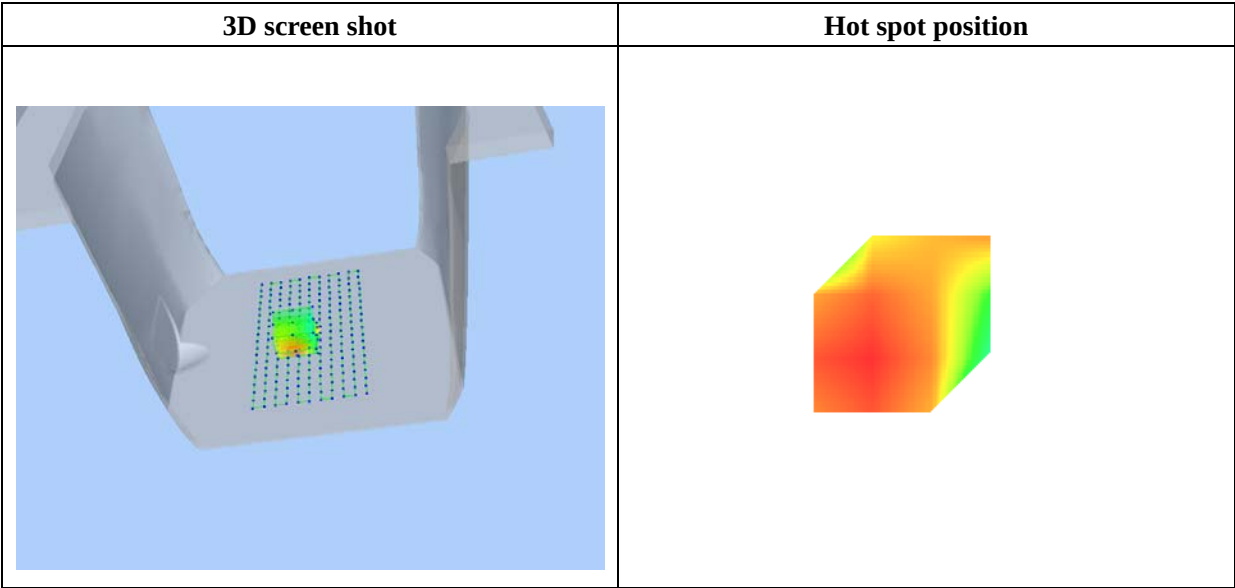
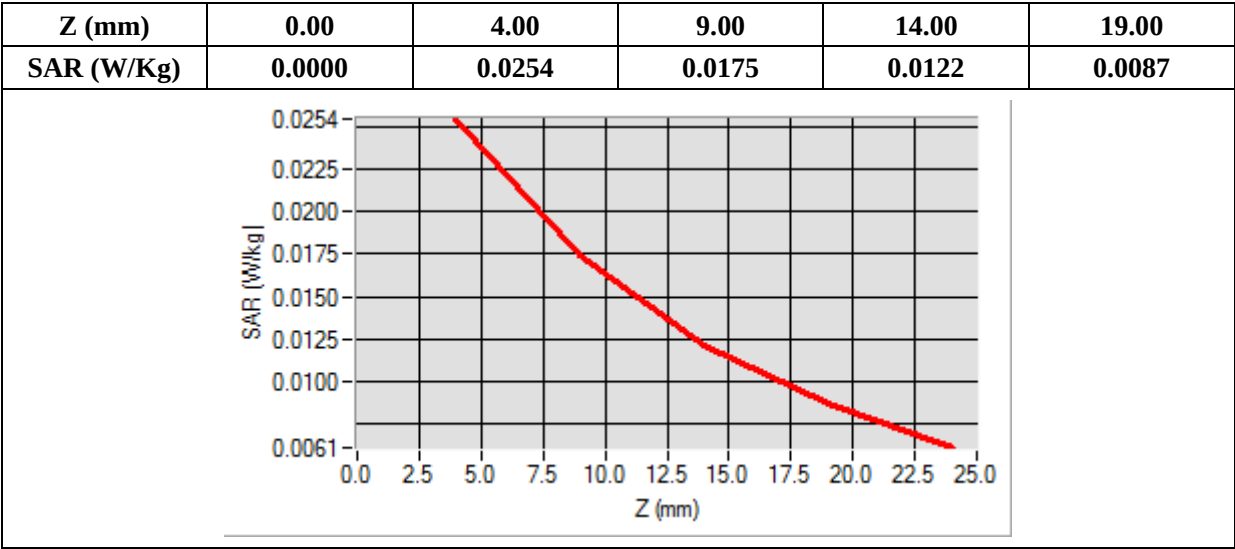
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.697820
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.015281
SAR 1g (W/Kg)	0.023846



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

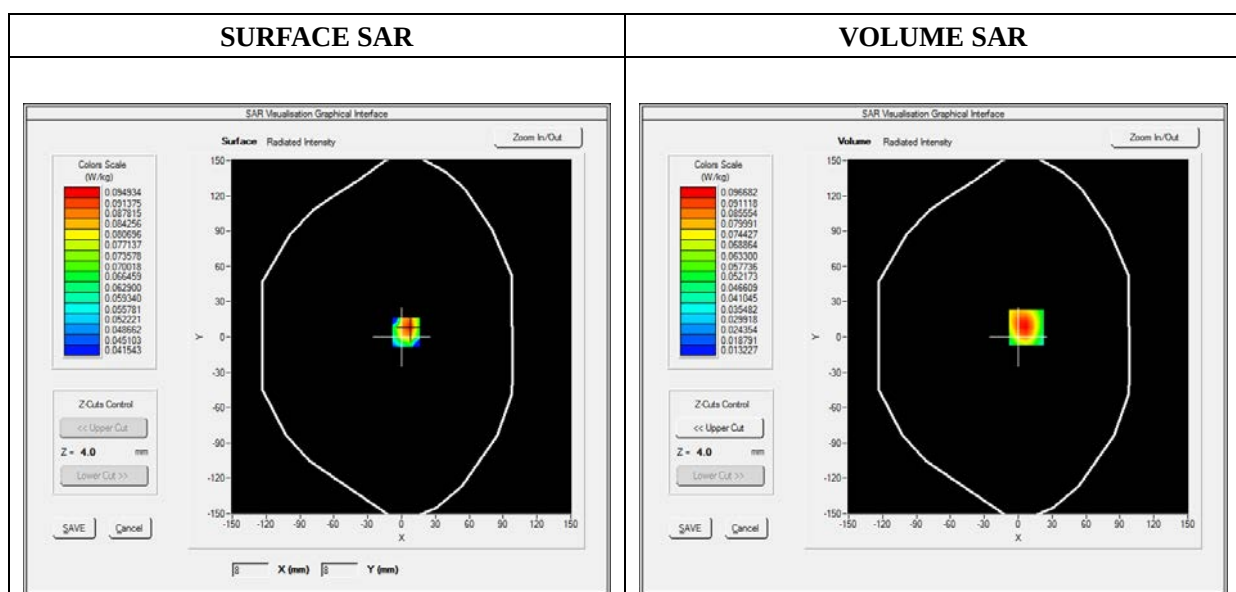
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Right side
Band	GPRS850_3TX
Channels	Low
Signal	Duty Cycle 1:2

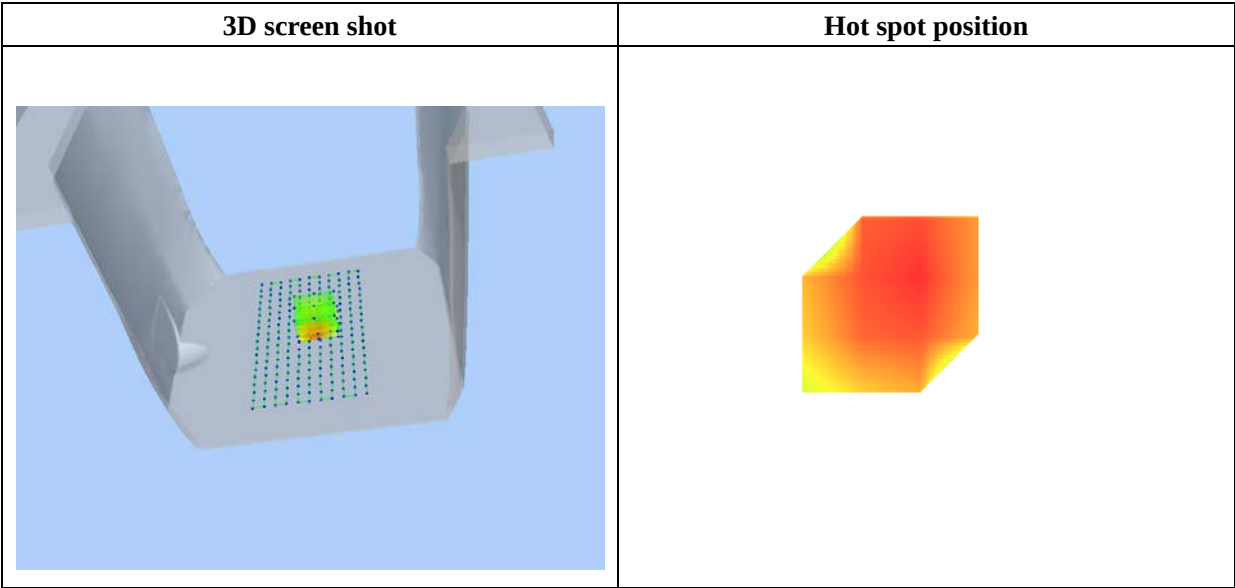
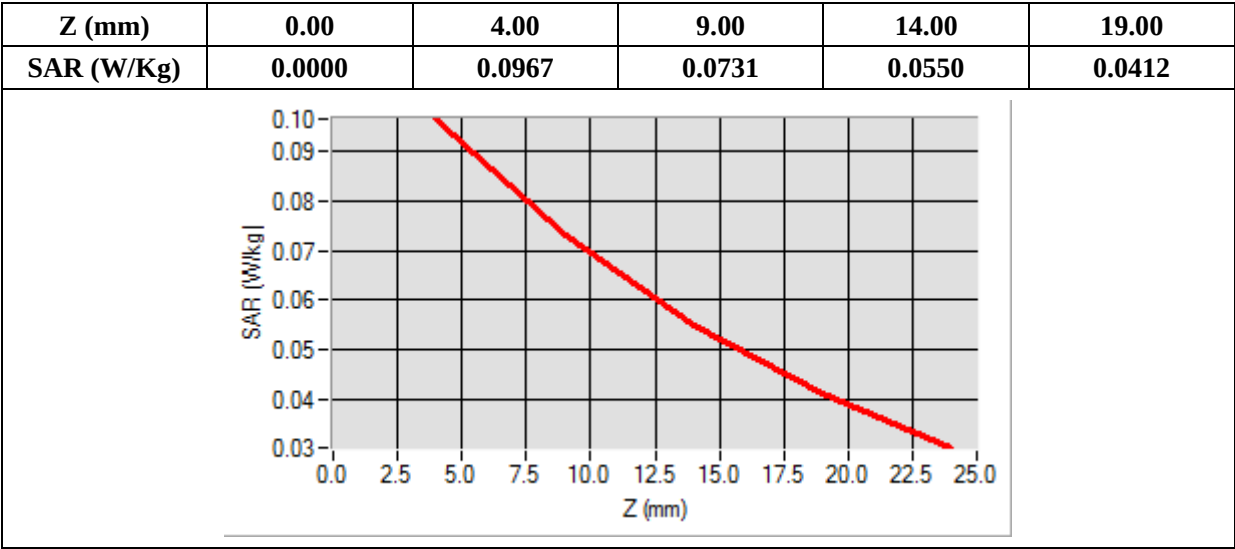
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.484327
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=8.00

SAR 10g (W/Kg)	0.063615
SAR 1g (W/Kg)	0.091446



MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

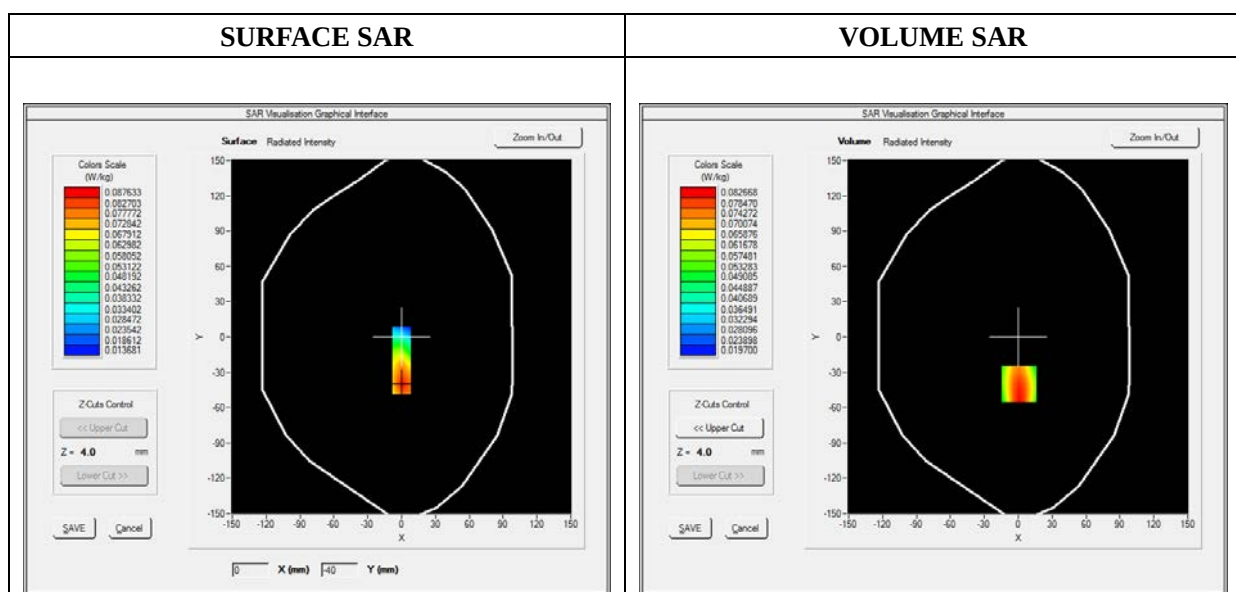
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Left side
Band	GPRS850_3TX
Channels	Low
Signal	Duty Cycle 1:2

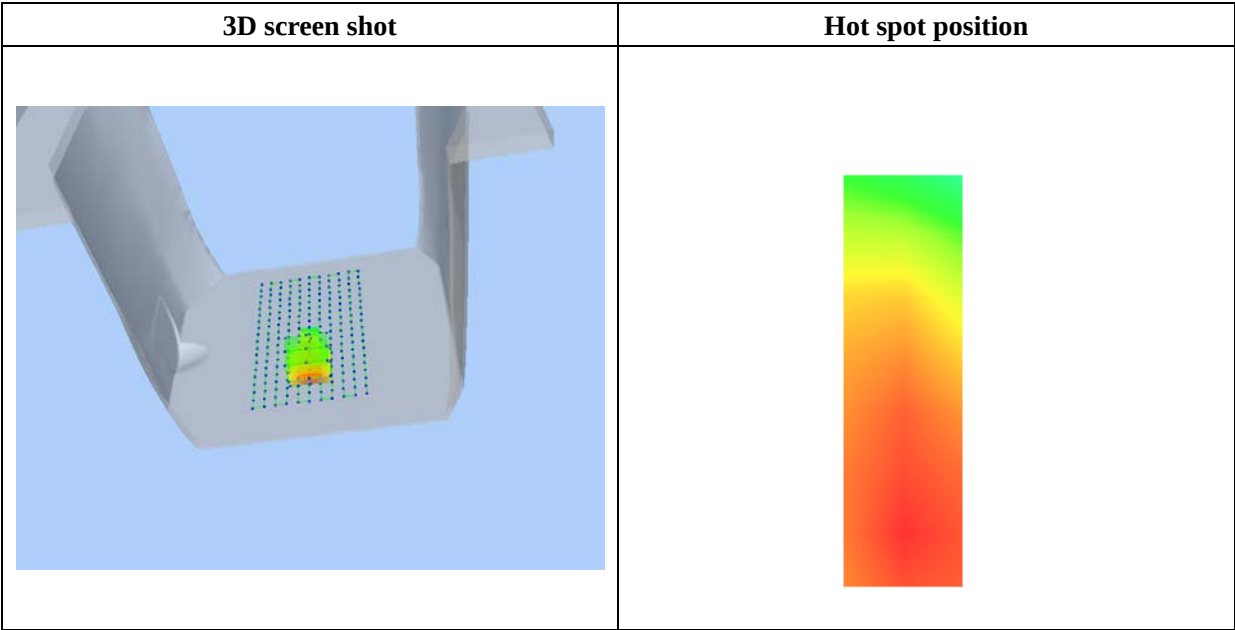
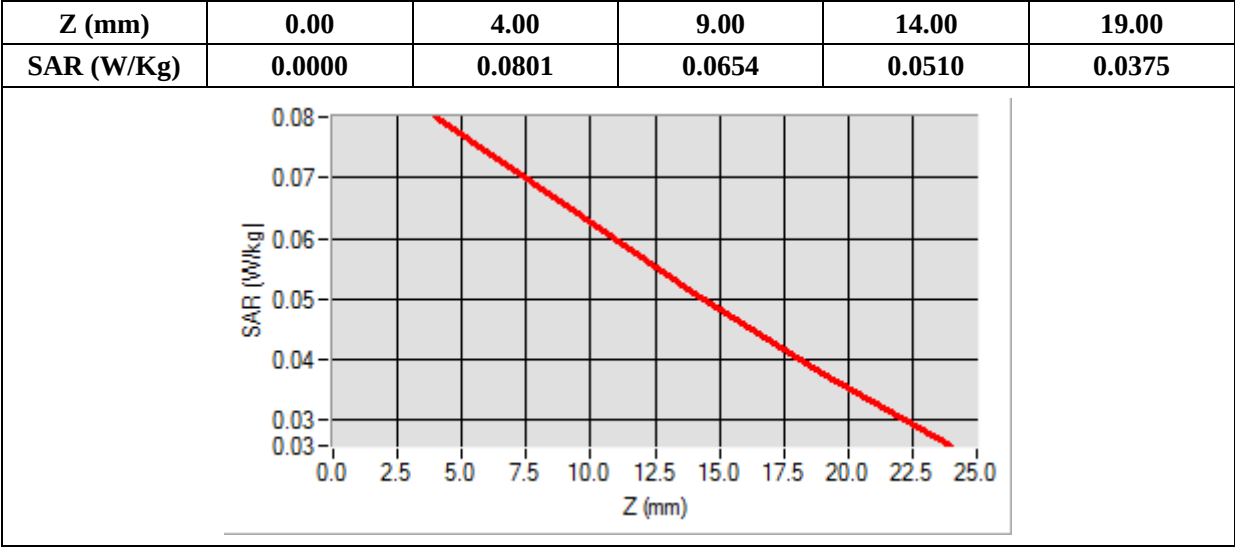
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.294260
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=-40.00

SAR 10g (W/Kg)	0.057033
SAR 1g (W/Kg)	0.079684



MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

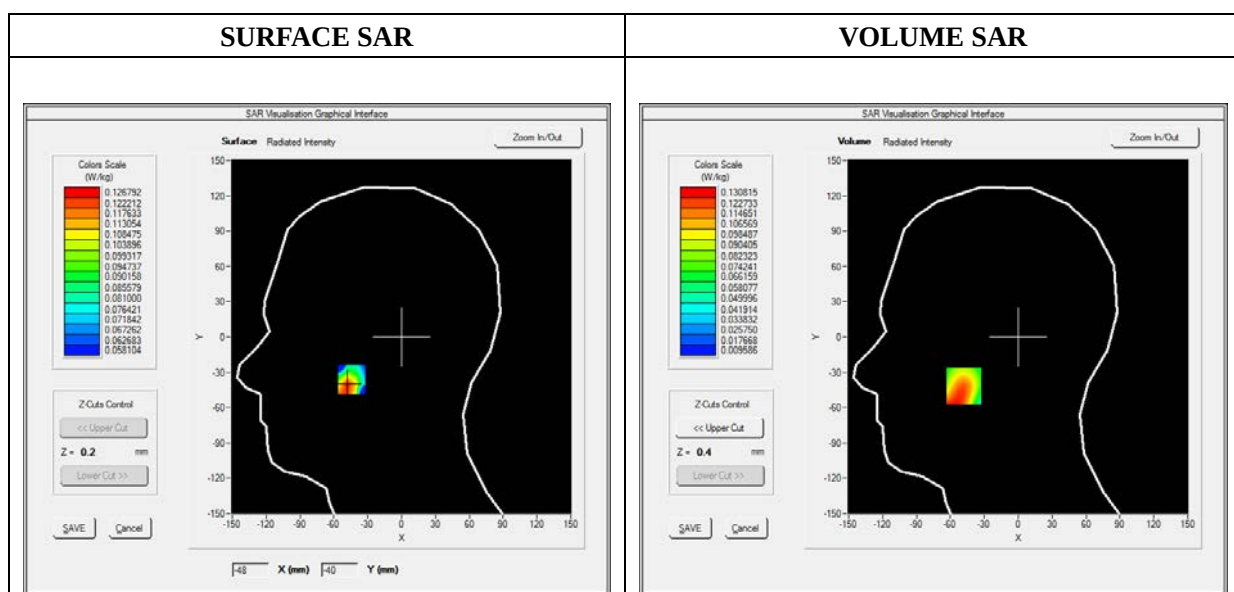
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

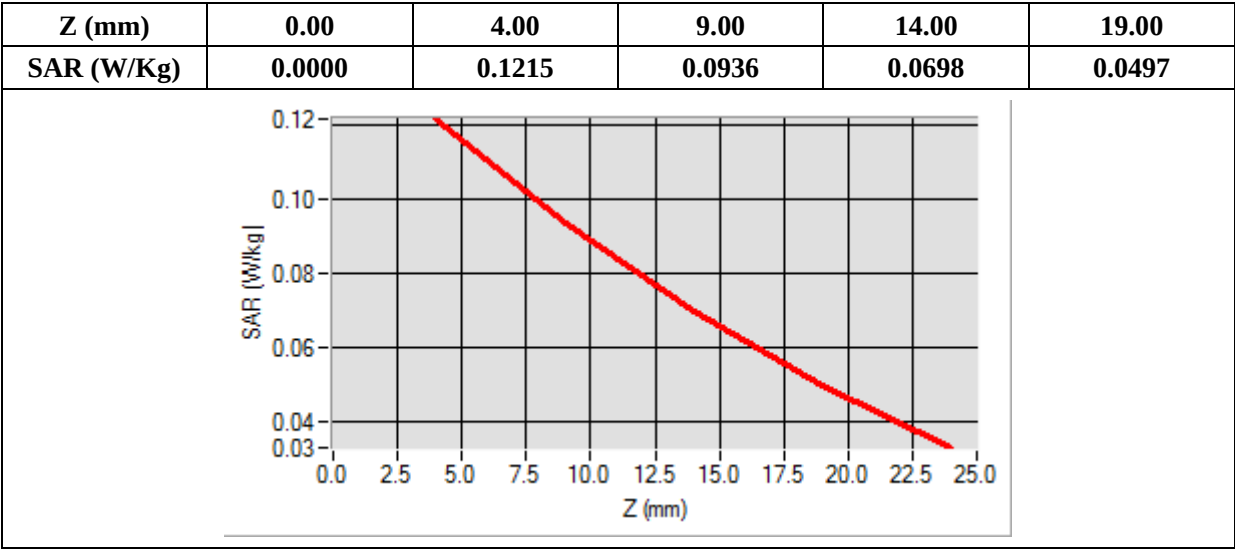
B. SAR Measurement Results

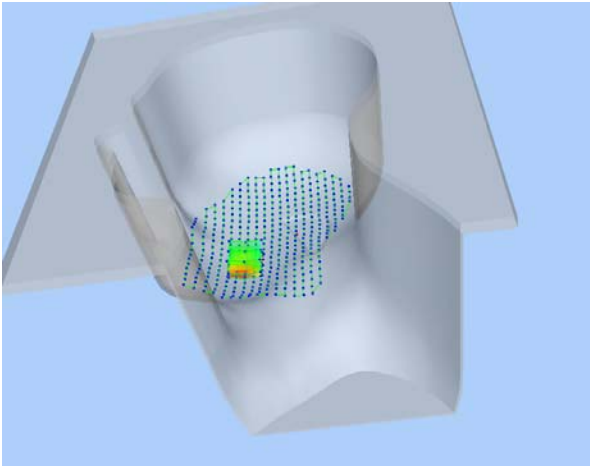
Frequency (MHz)	1909.800049
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.012390
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.080142
SAR 1g (W/Kg)	0.121444



3D screen shot	Hot spot position
	

MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

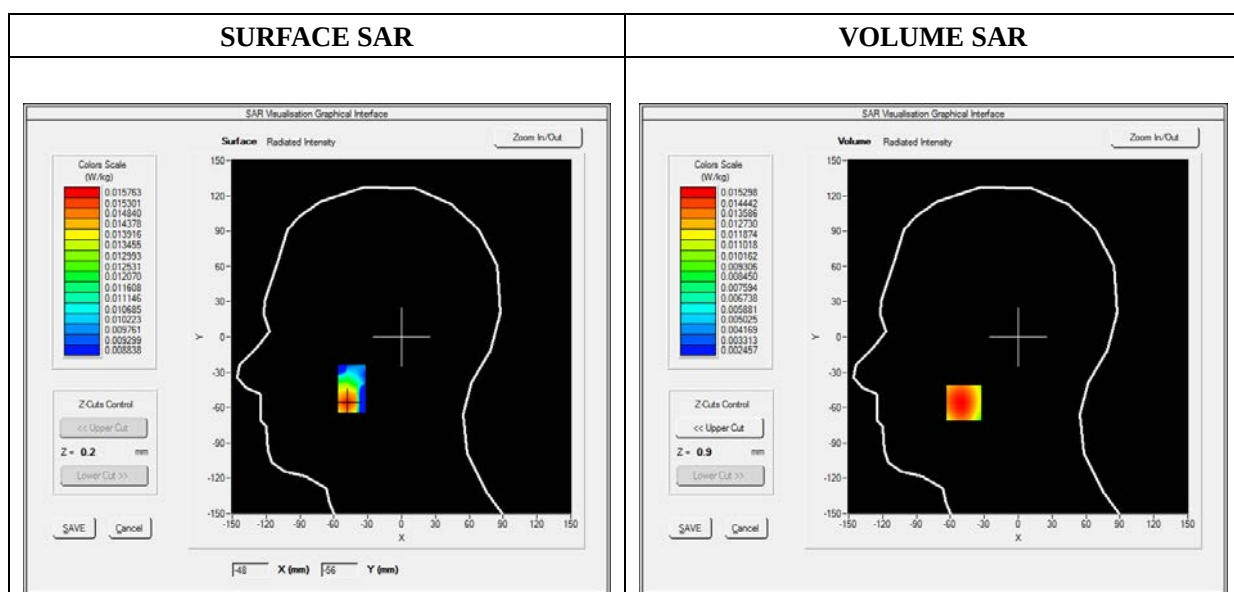
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

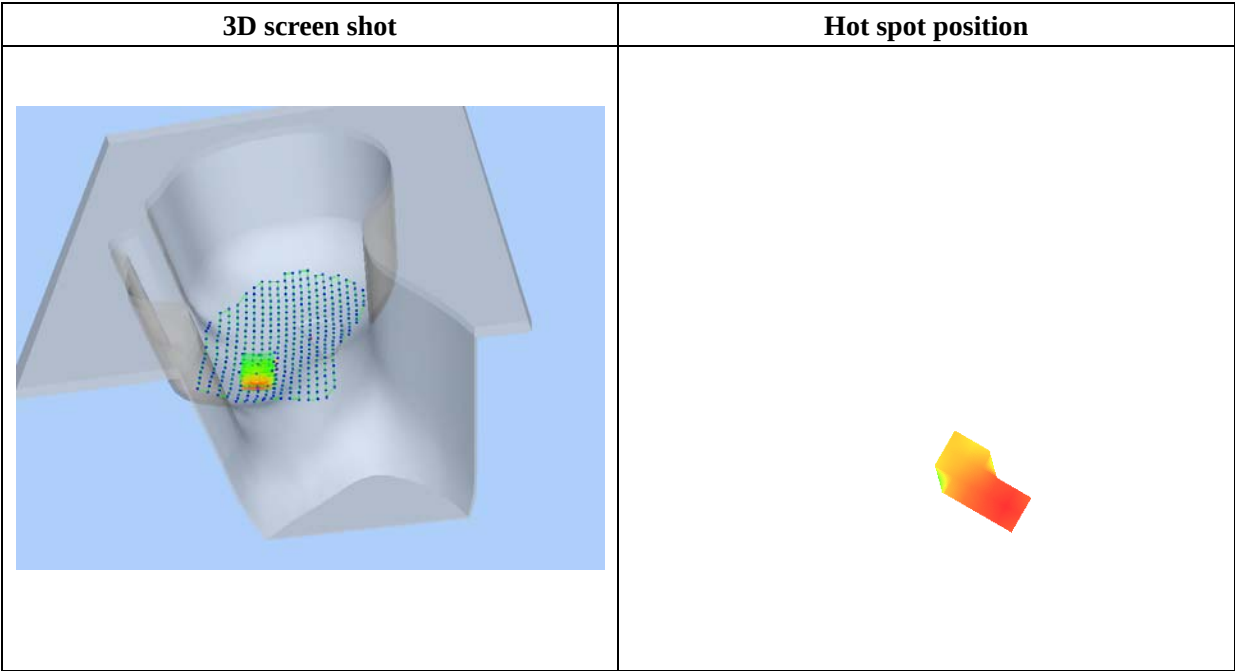
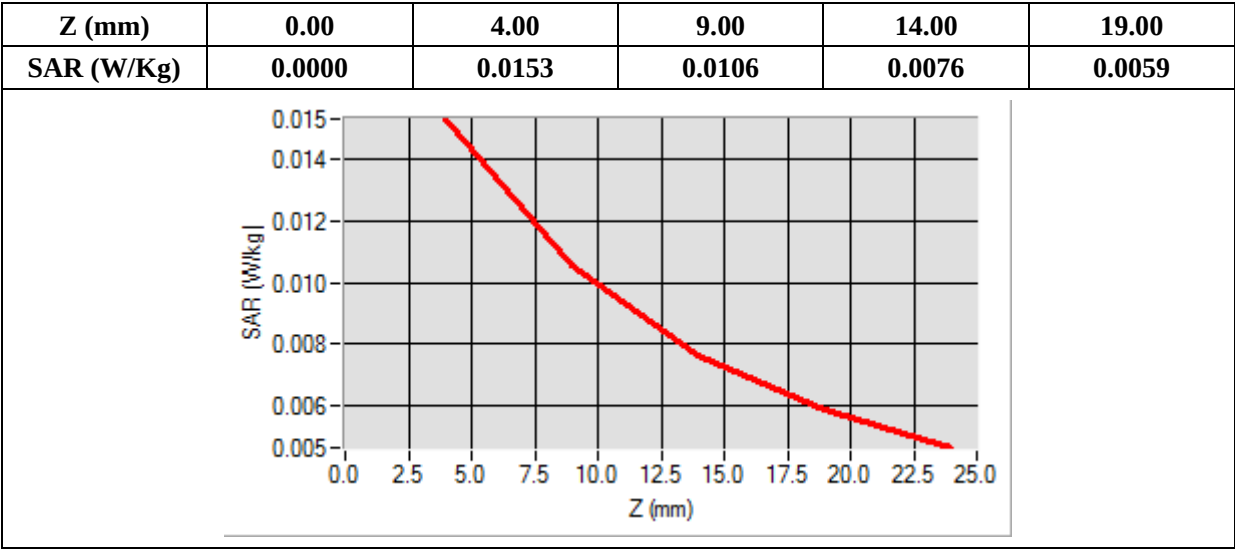
B. SAR Measurement Results

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	0.985320
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-48.00, Y=-56.00

SAR 10g (W/Kg)	0.010224
SAR 1g (W/Kg)	0.014782



MEASUREMENT 16

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 11 minutes 48 seconds

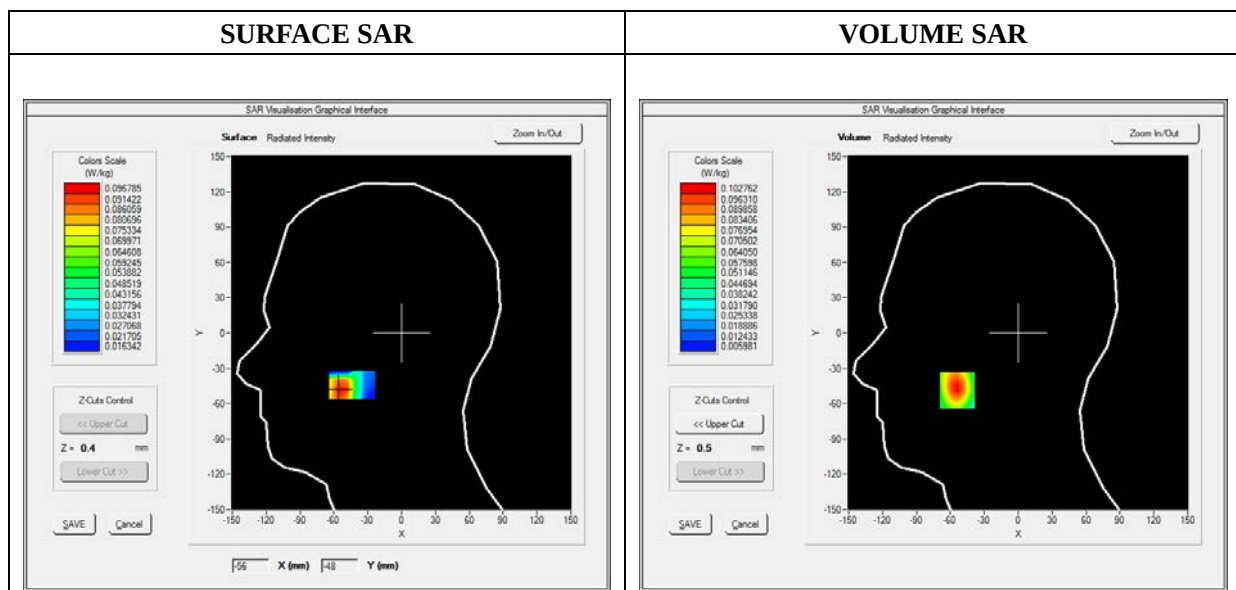
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

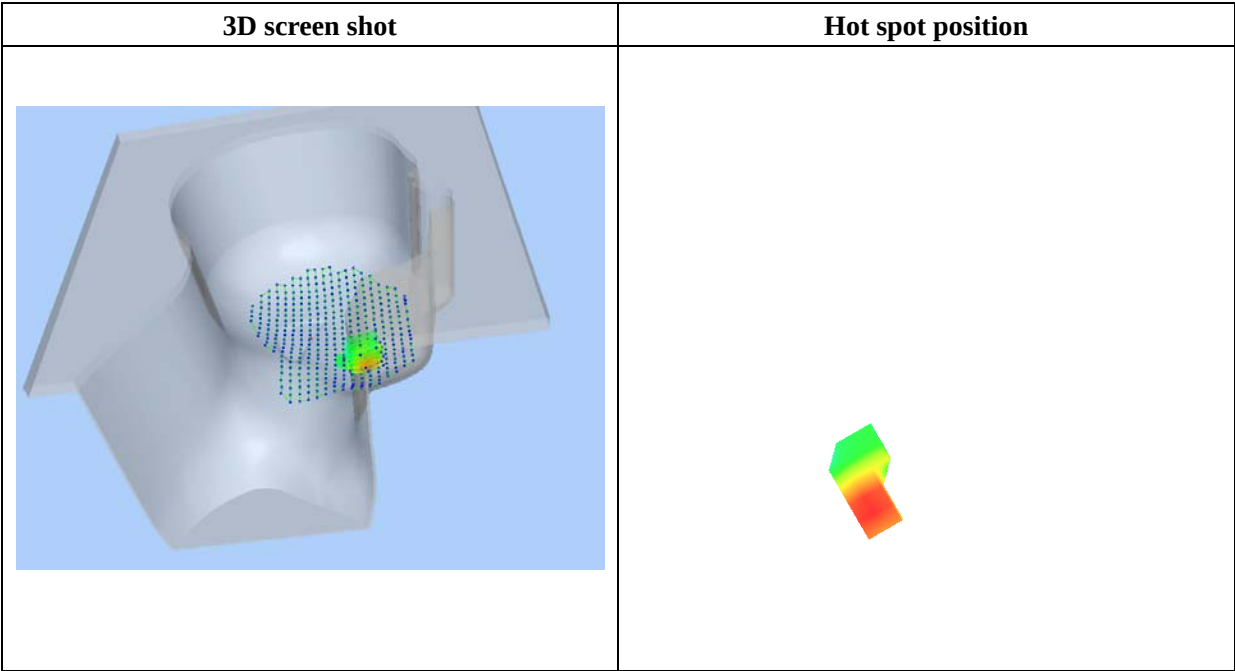
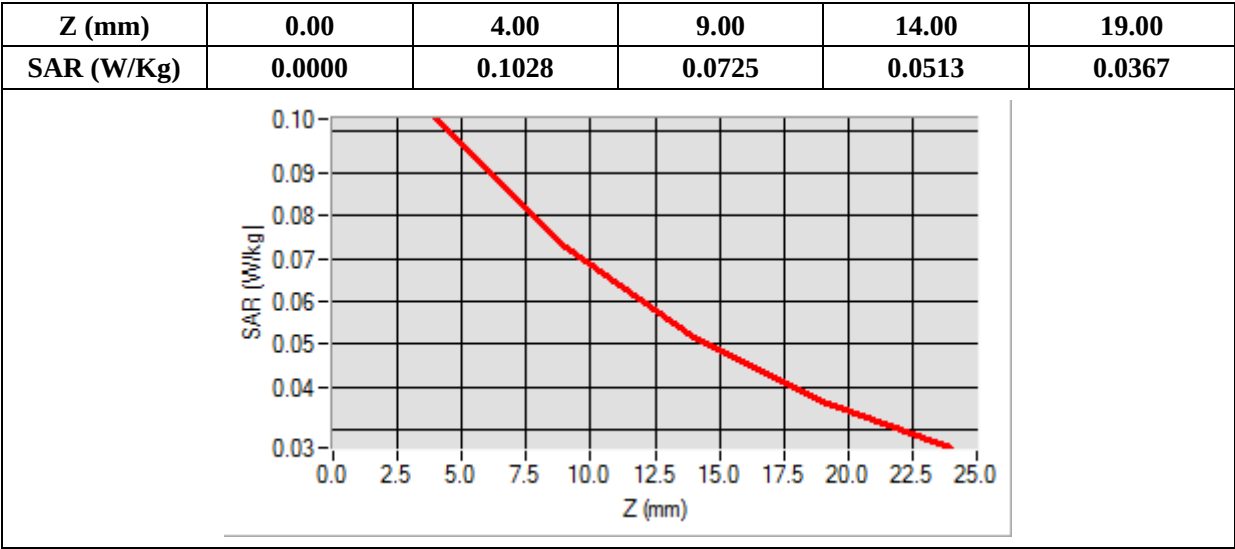
B. SAR Measurement Results

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	0.893570
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-54.00, Y=-49.00

SAR 10g (W/Kg)	0.060984
SAR 1g (W/Kg)	0.096379



MEASUREMENT 17

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

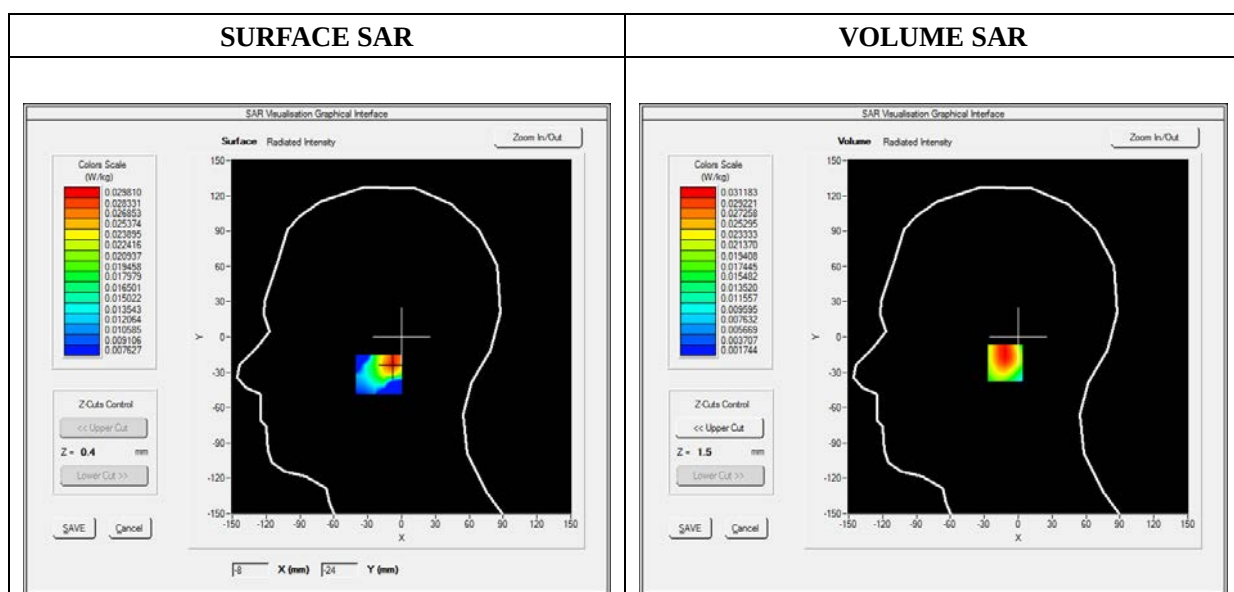
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

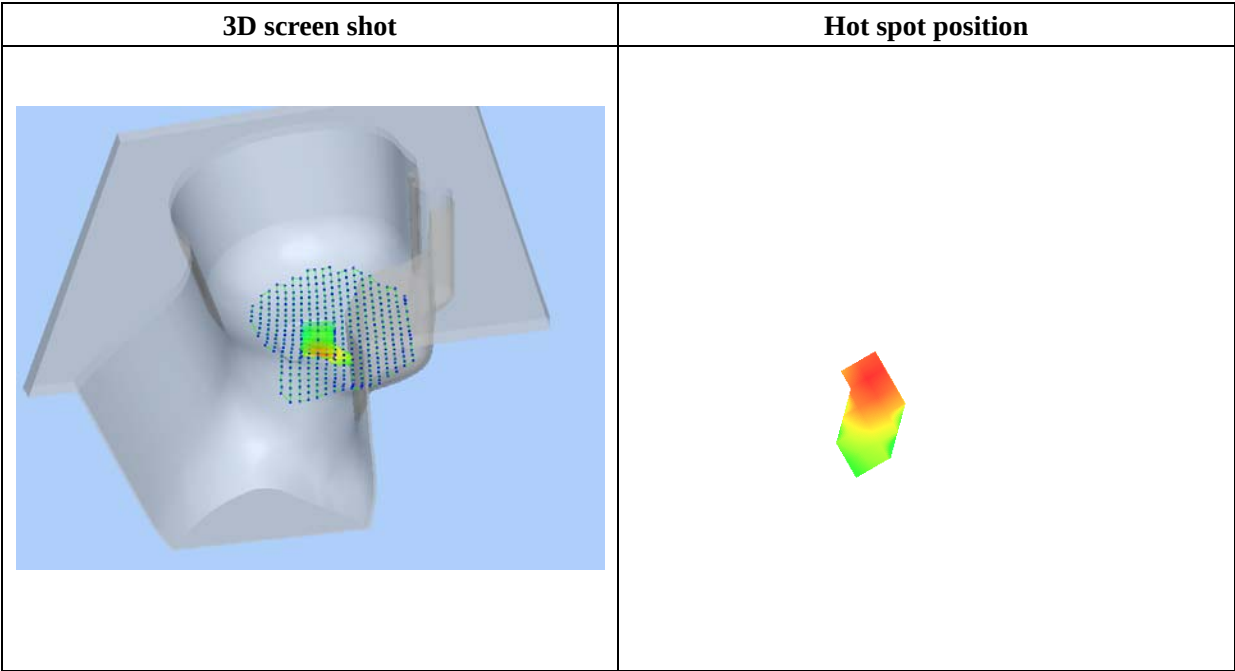
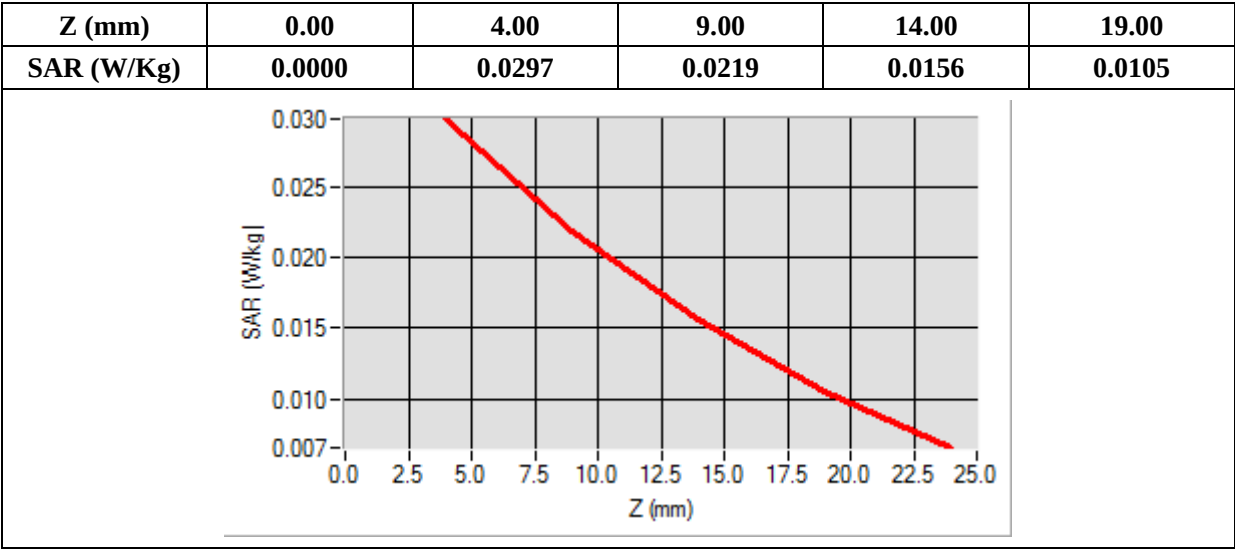
B. SAR Measurement Results

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.324382
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-8.00, Y=-22.00

SAR 10g (W/Kg)	0.019476
SAR 1g (W/Kg)	0.029459



MEASUREMENT 18

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

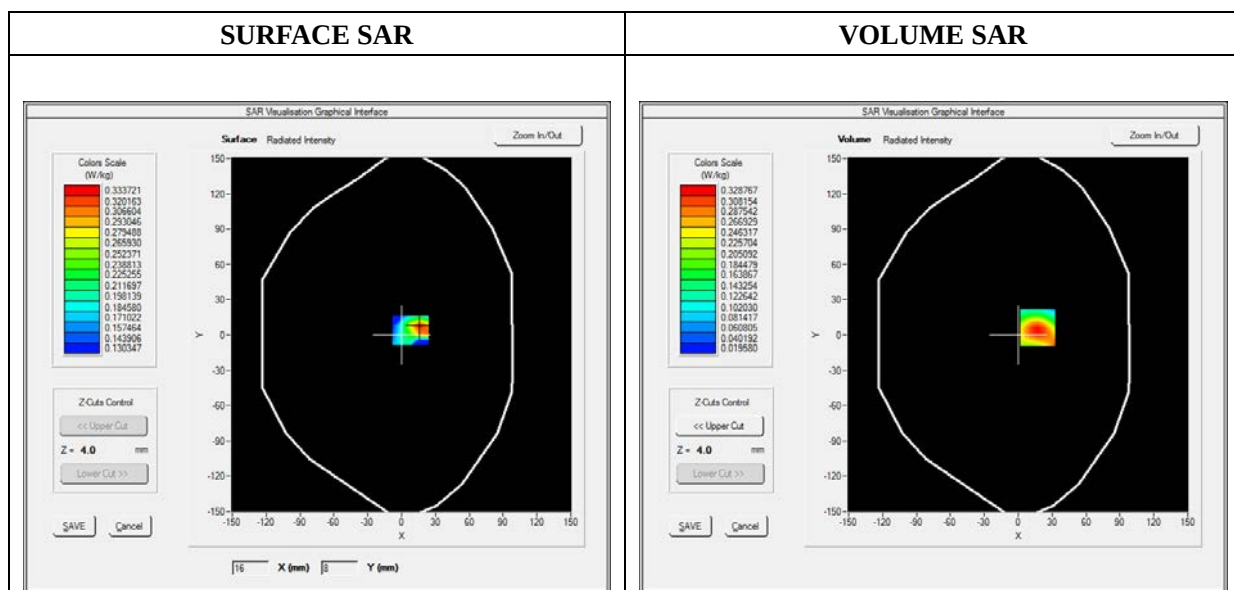
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

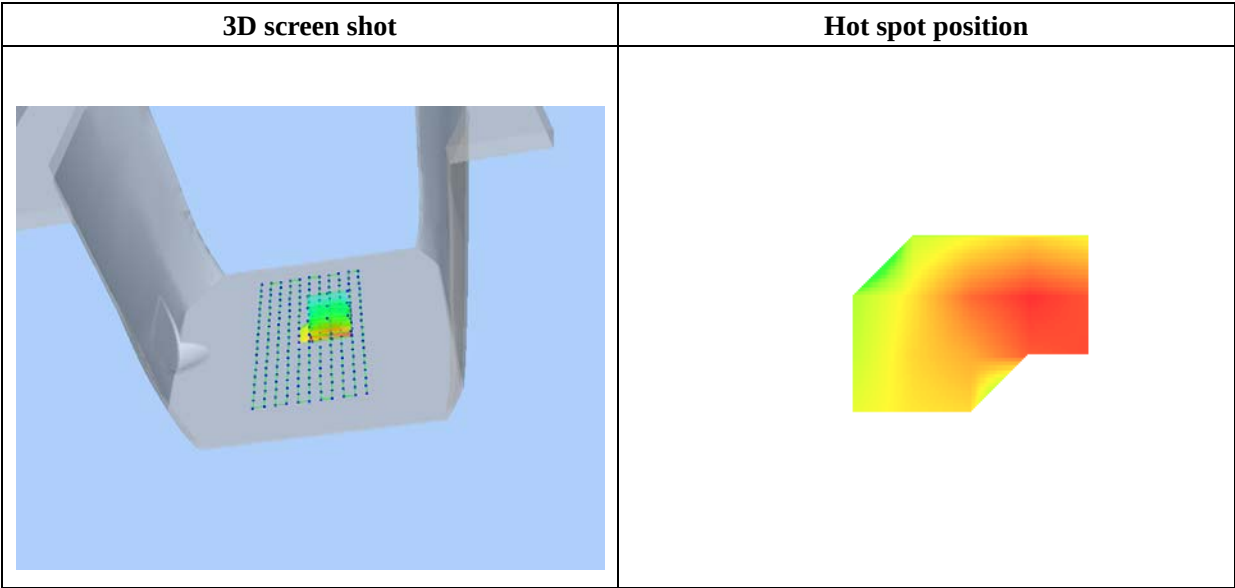
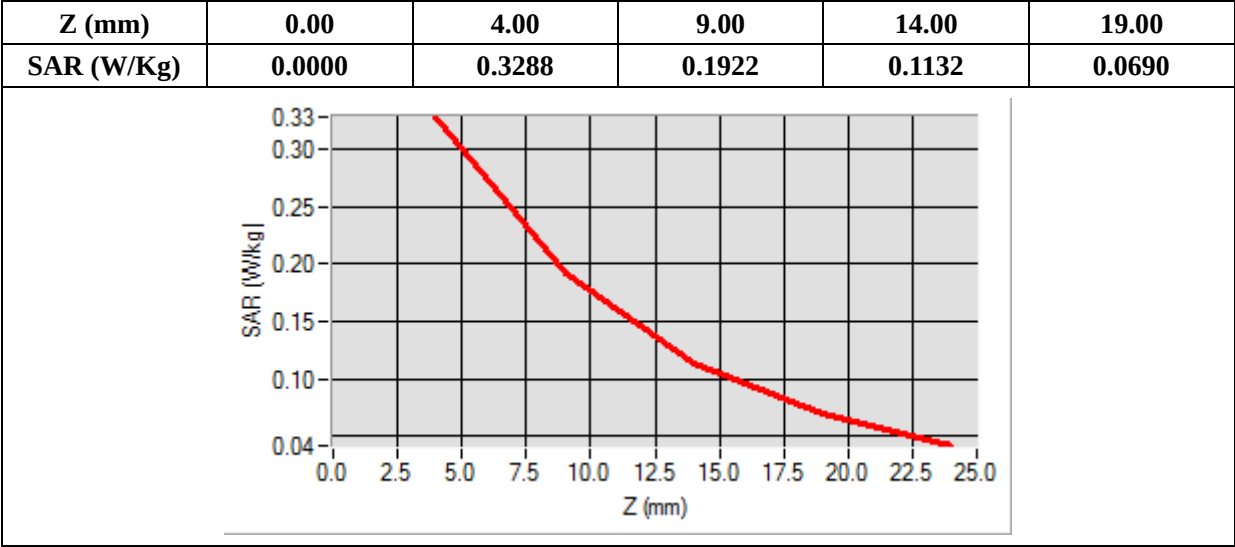
B. SAR Measurement Results

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.563421
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=17.00, Y=6.00

SAR 10g (W/Kg)	0.208078
SAR 1g (W/Kg)	0.368317



MEASUREMENT 19

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

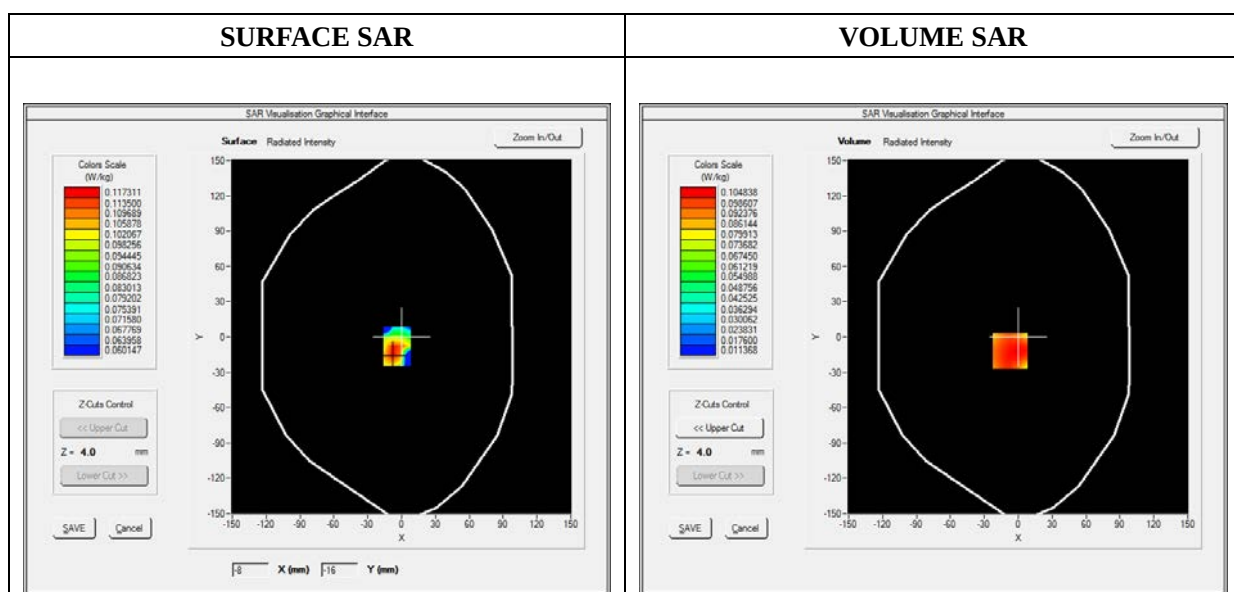
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

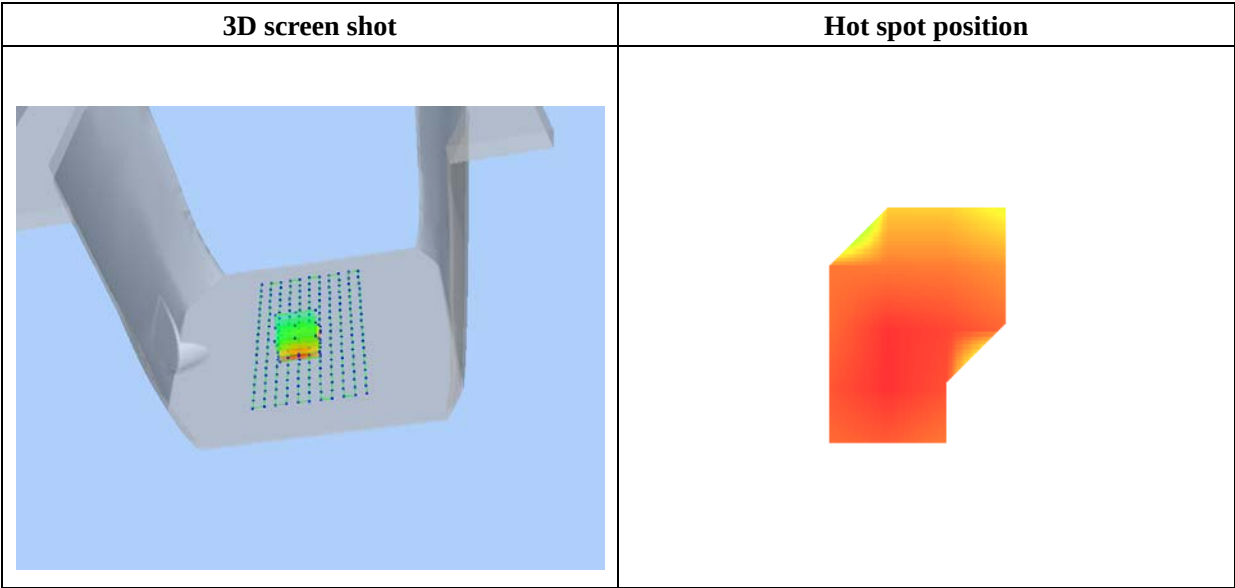
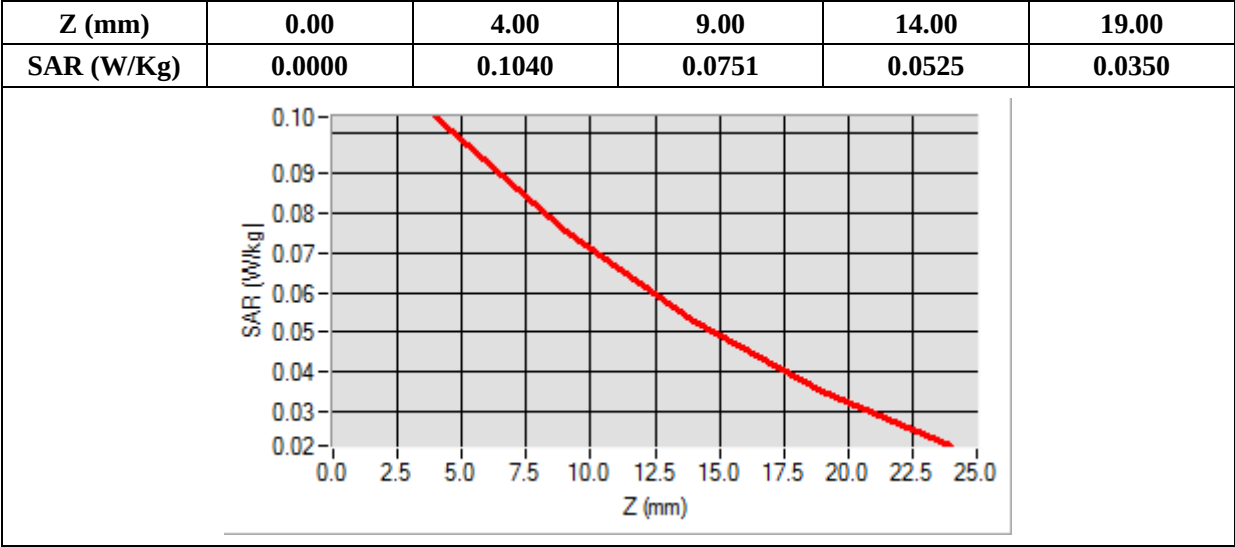
B. SAR Measurement Results

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.451289
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-7.00, Y=-12.00

SAR 10g (W/Kg)	0.081402
SAR 1g (W/Kg)	0.122988



MEASUREMENT 20

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

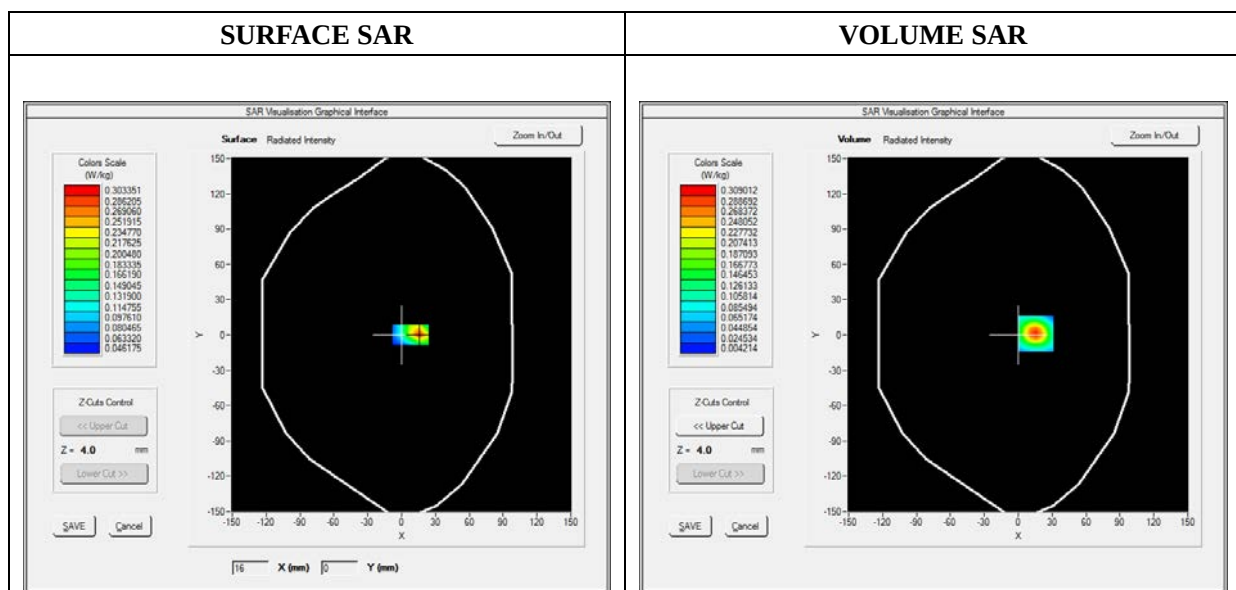
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Back
Band	GPRS1900_3TX
Channels	High
Signal	Duty Cycle 1:2

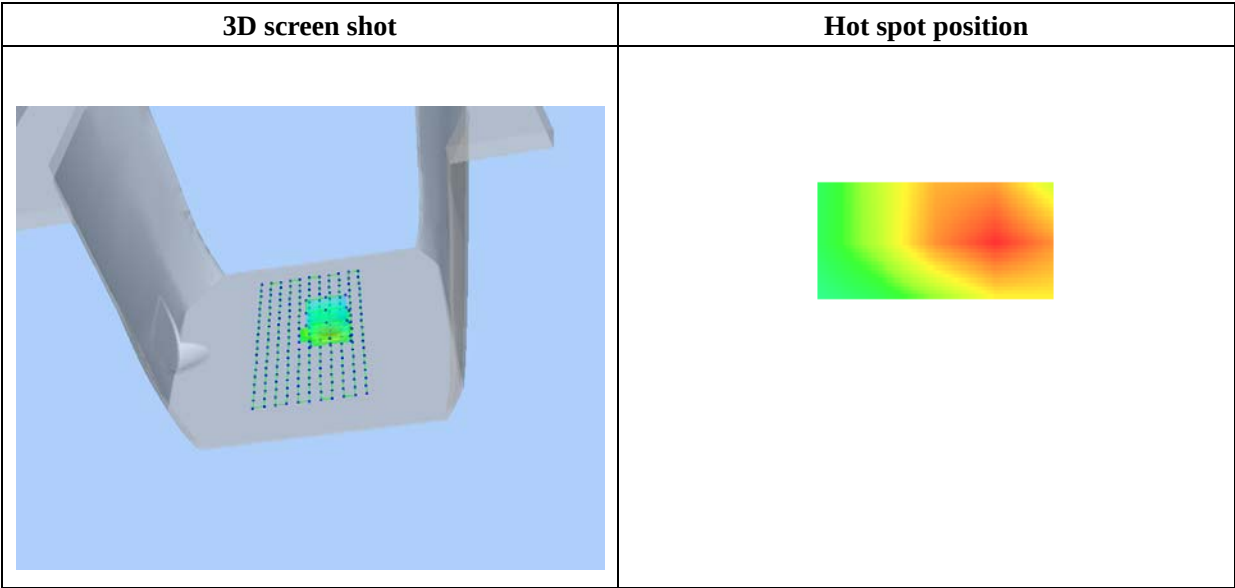
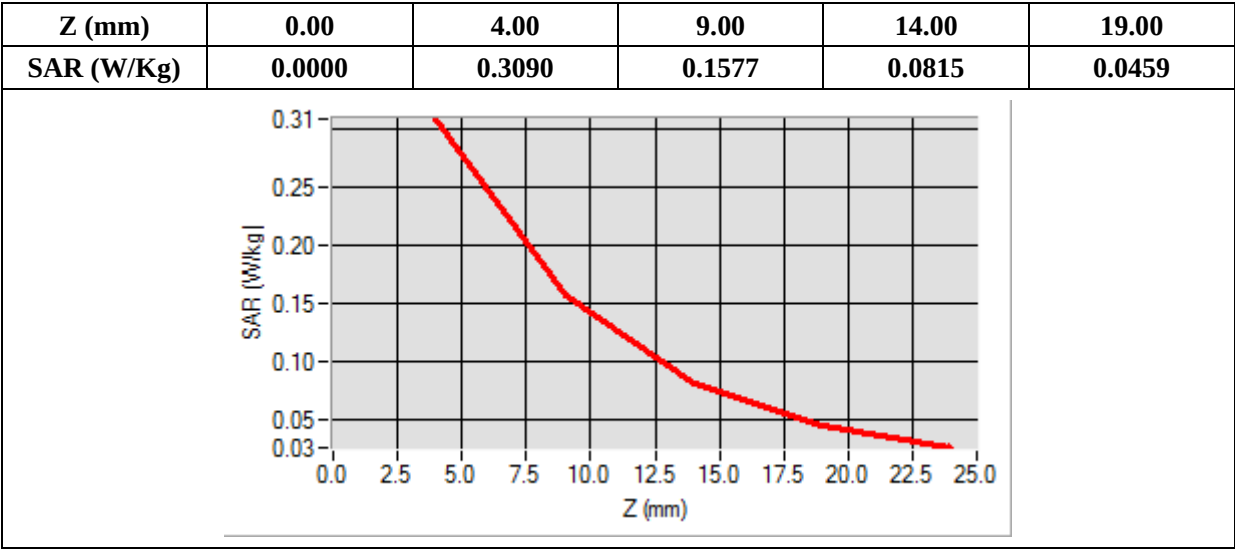
B. SAR Measurement Results

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.321260
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=16.00, Y=1.00

SAR 10g (W/Kg)	0.126172
SAR 1g (W/Kg)	0.271650



MEASUREMENT 21

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

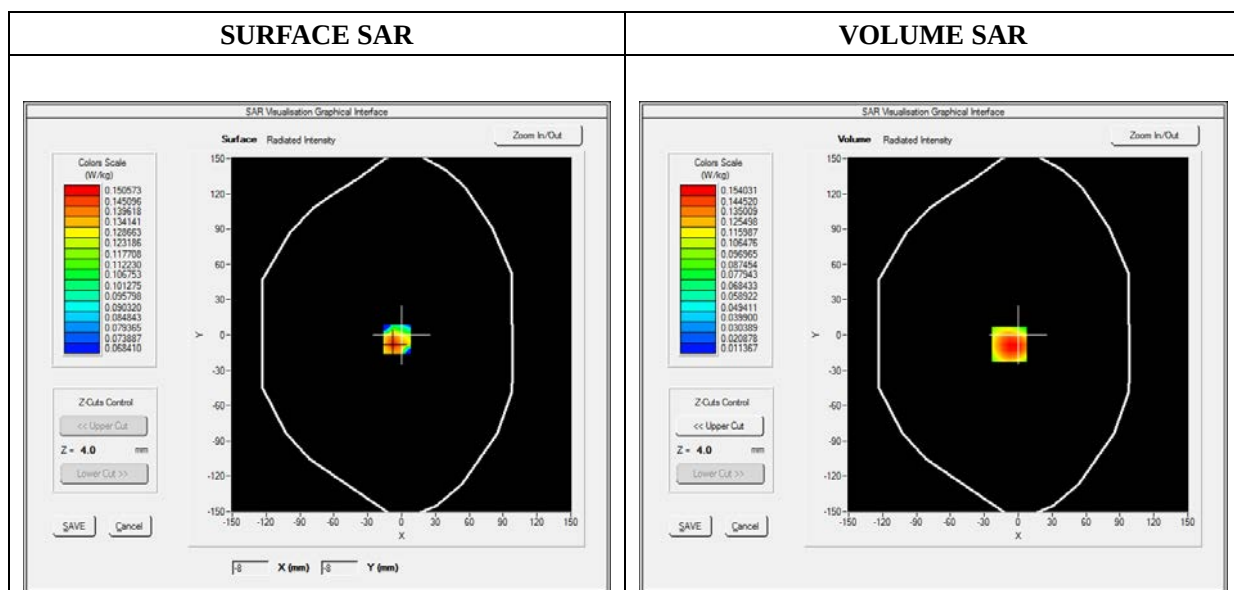
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Front
Band	GPRS1900_3TX
Channels	High
Signal	Duty Cycle 1:2

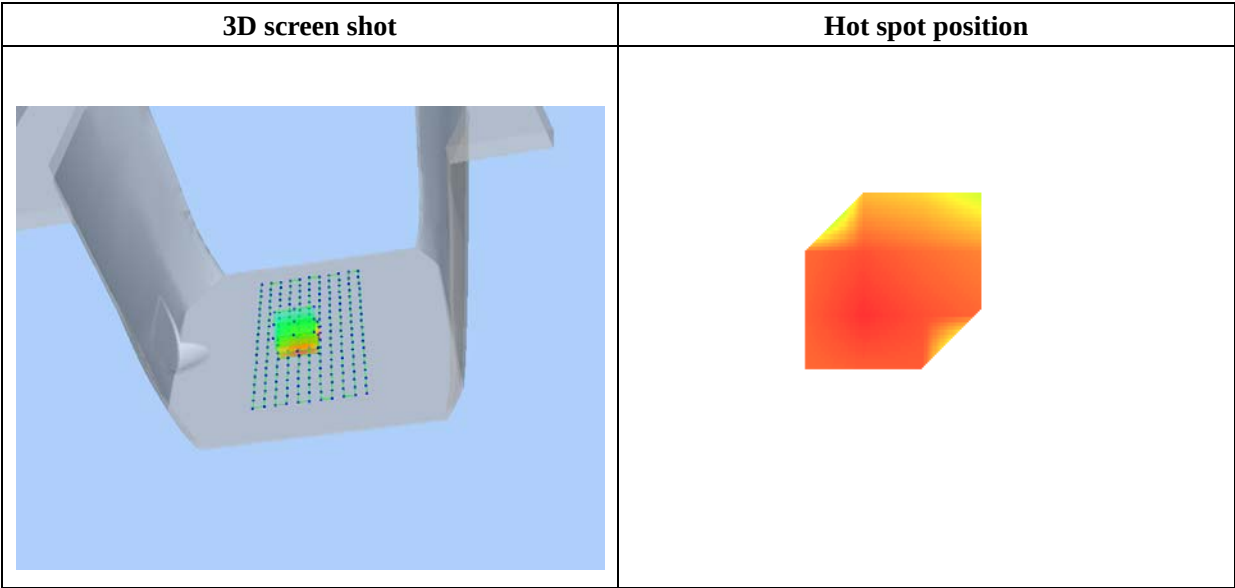
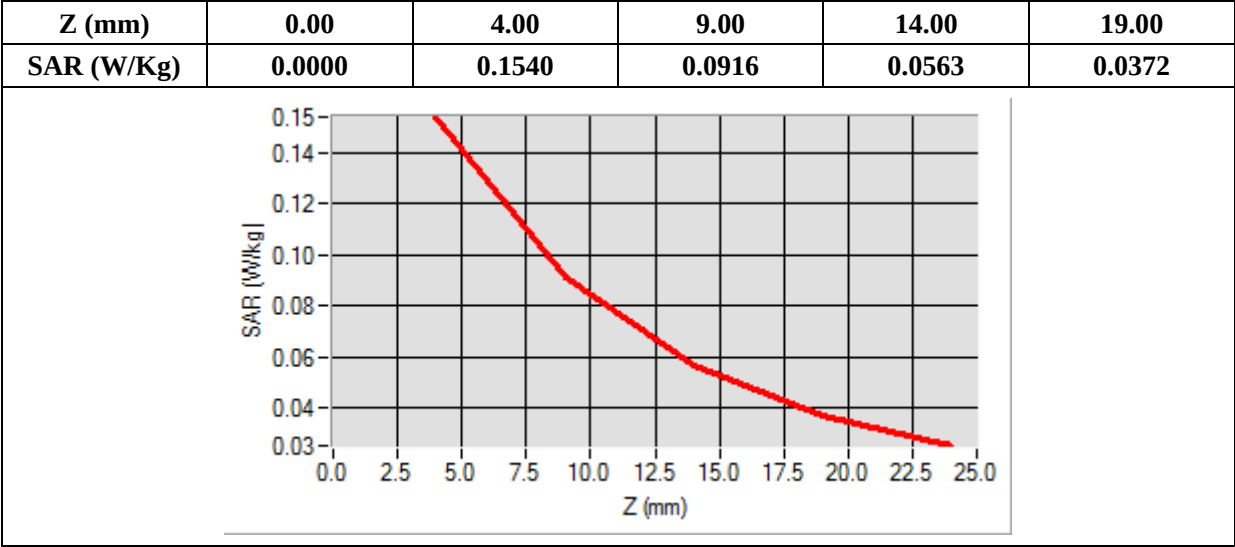
B. SAR Measurement Results

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.321280
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.087878
SAR 1g (W/Kg)	0.146241



MEASUREMENT 22

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

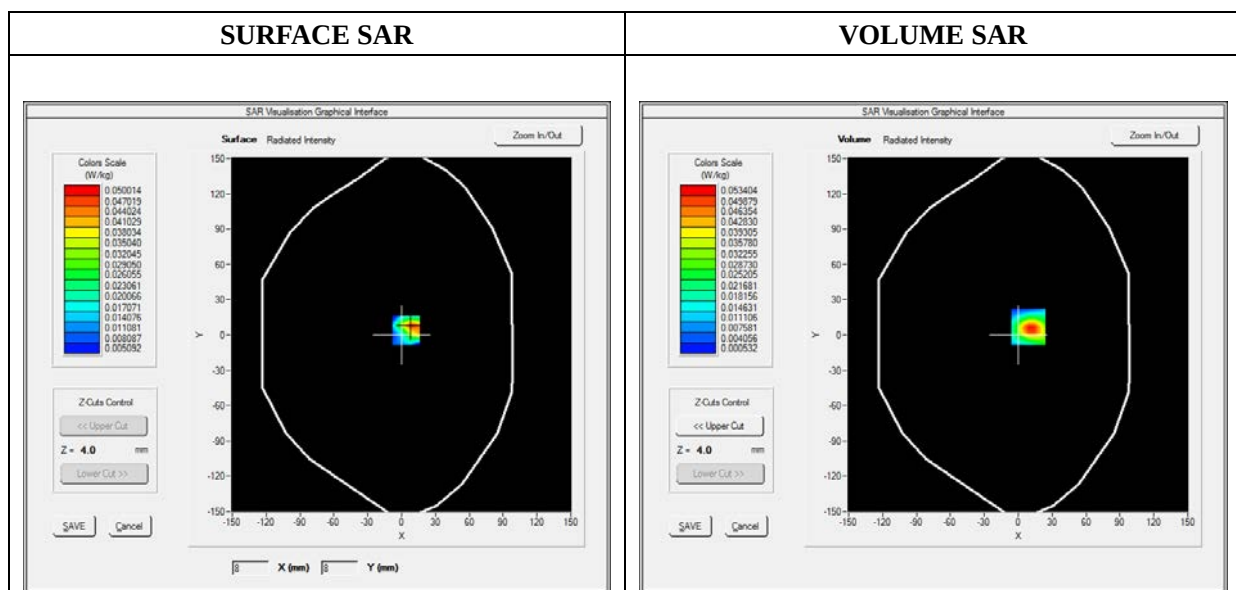
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Bottom
Band	GPRS1900_3TX
Channels	High
Signal	Duty Cycle 1:2

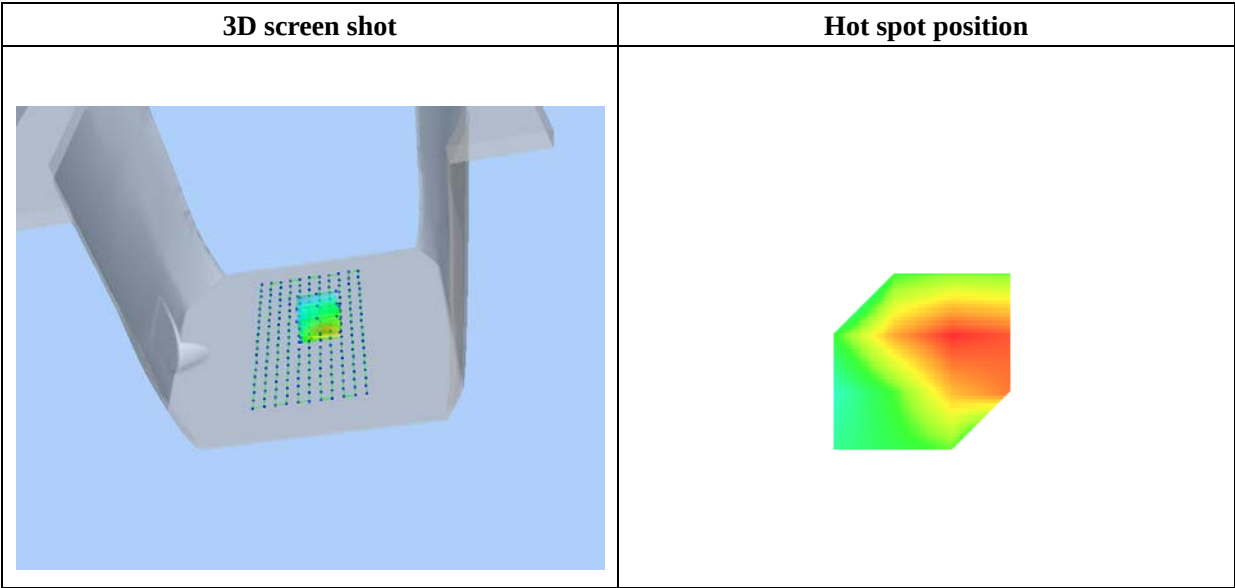
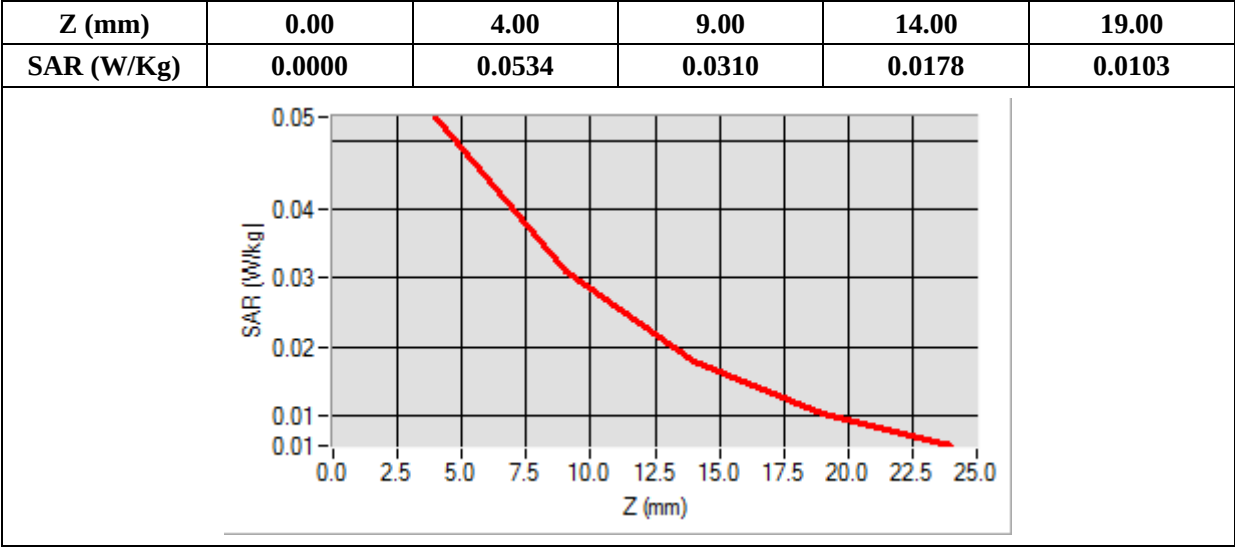
B. SAR Measurement Results

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.413289
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=9.00, Y=7.00

SAR 10g (W/Kg)	0.024001
SAR 1g (W/Kg)	0.048026



MEASUREMENT 23

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

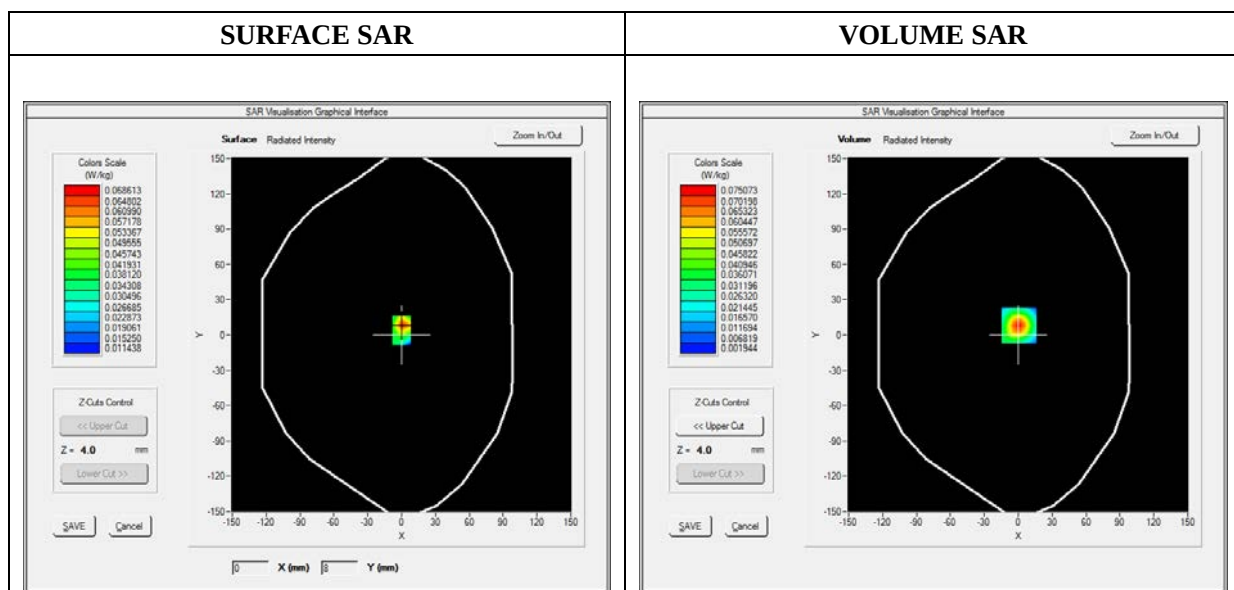
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Right side
Band	GPRS1900_3TX
Channels	High
Signal	Duty Cycle 1:2

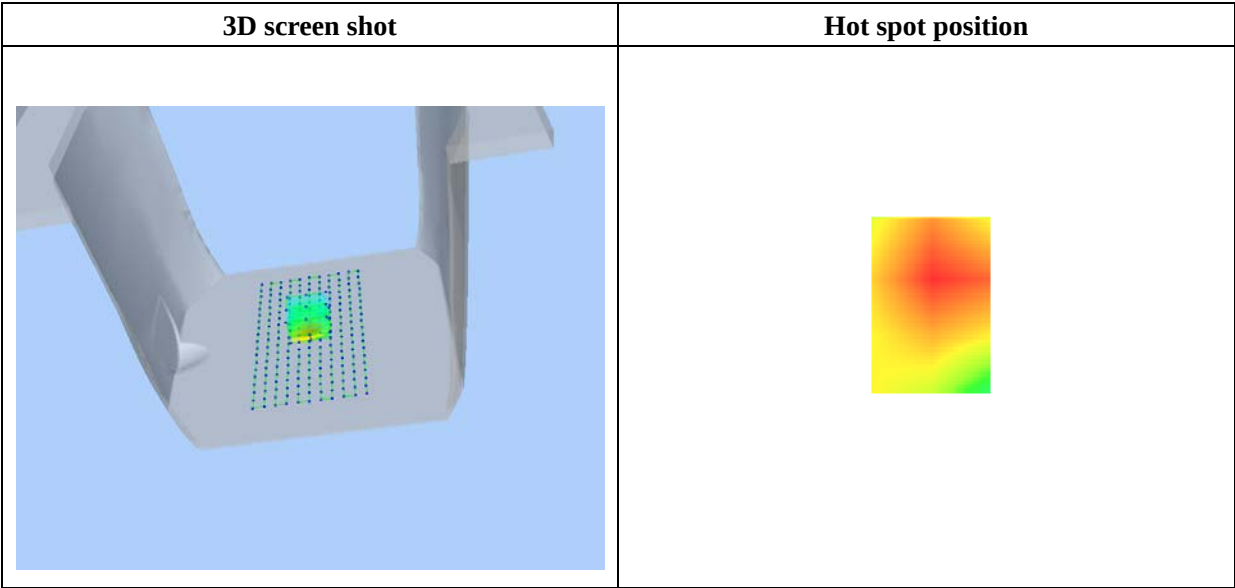
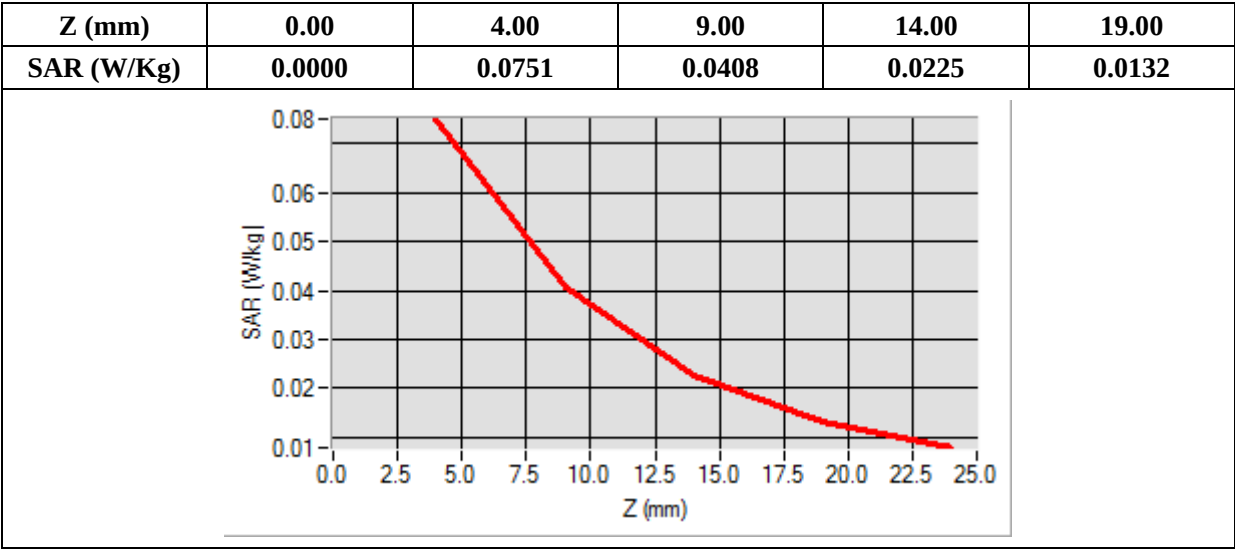
B. SAR Measurement Results

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.492490
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=8.00

SAR 10g (W/Kg)	0.032424
SAR 1g (W/Kg)	0.066201



MEASUREMENT 24

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

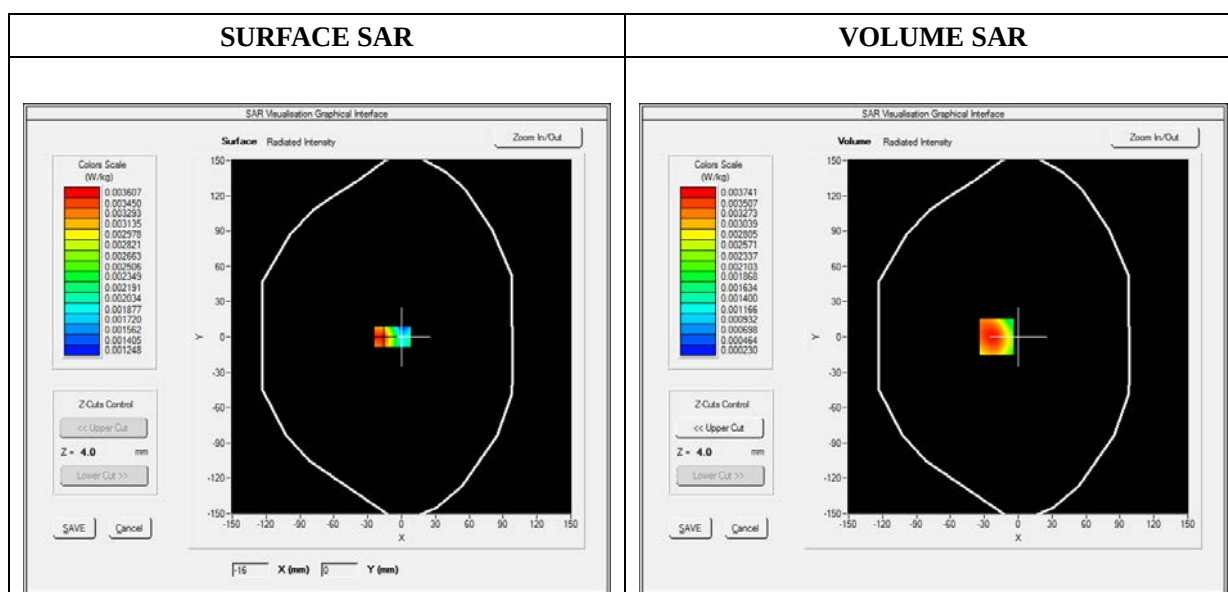
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Left side
Band	GPRS1900_3TX
Channels	High
Signal	Duty Cycle 1:2

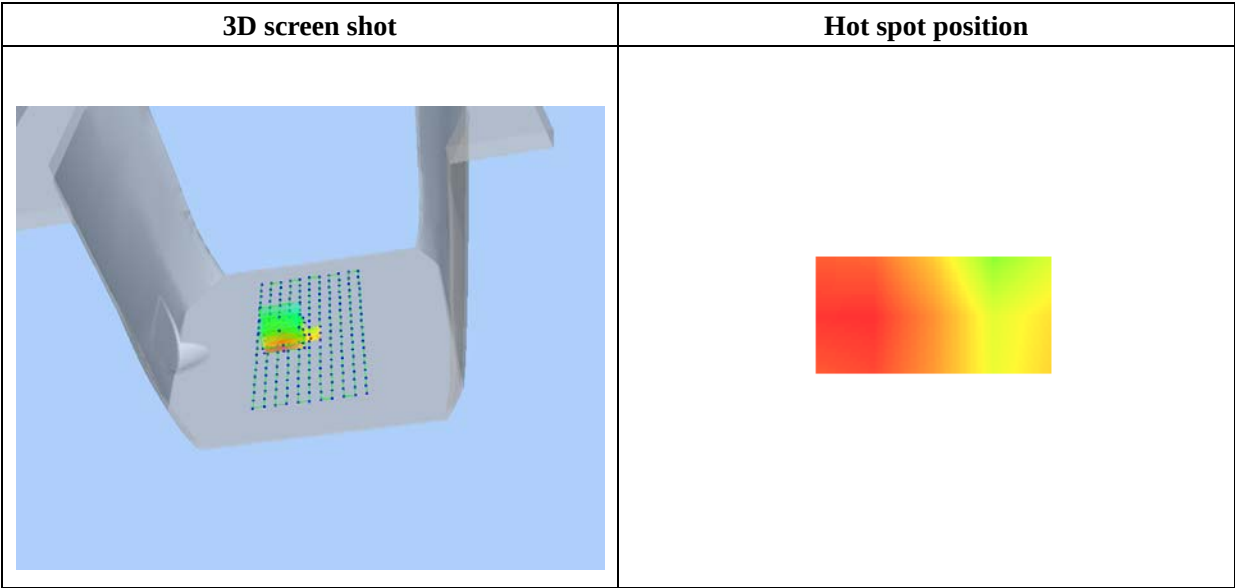
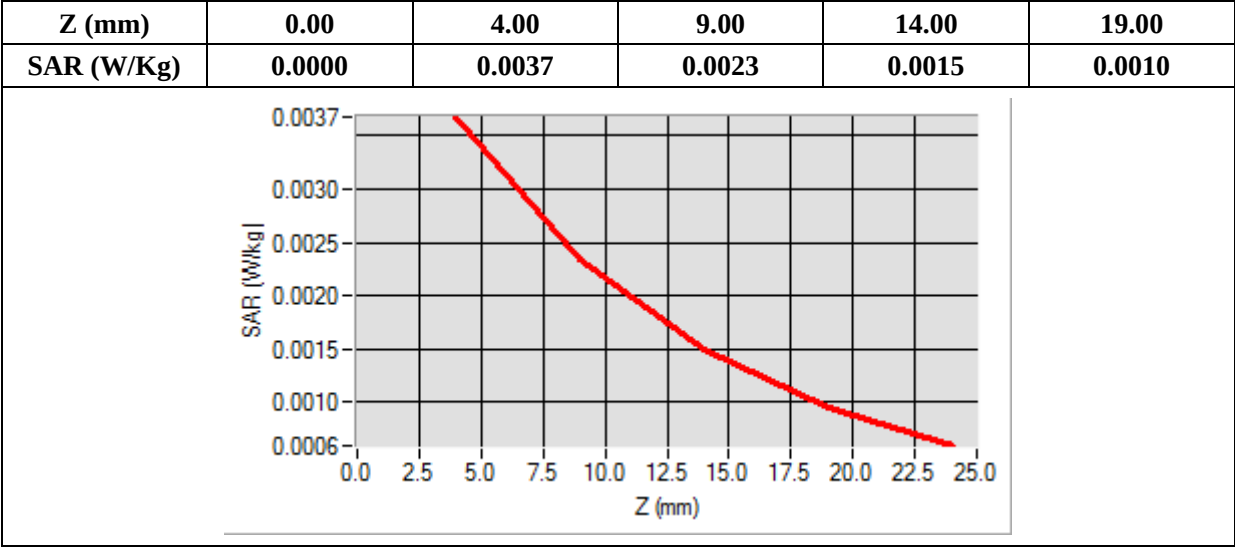
B. SAR Measurement Results

Frequency (MHz)	1909.800049
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.371267
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-19.00, Y=0.00

SAR 10g (W/Kg)	0.002200
SAR 1g (W/Kg)	0.003540



MEASUREMENT 25

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

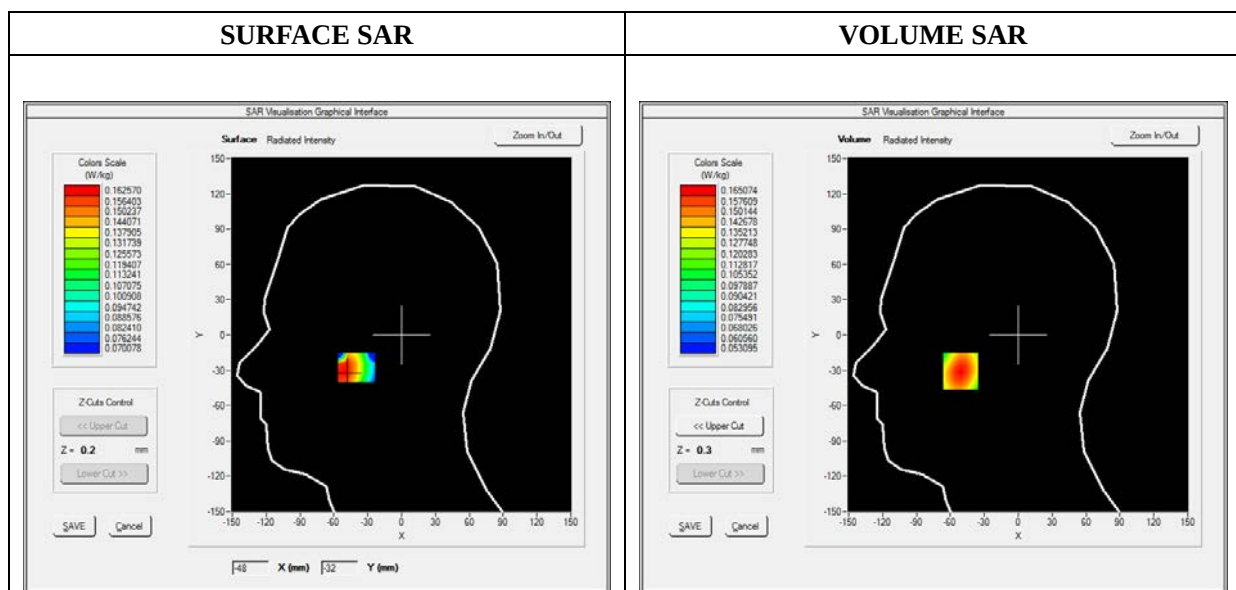
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

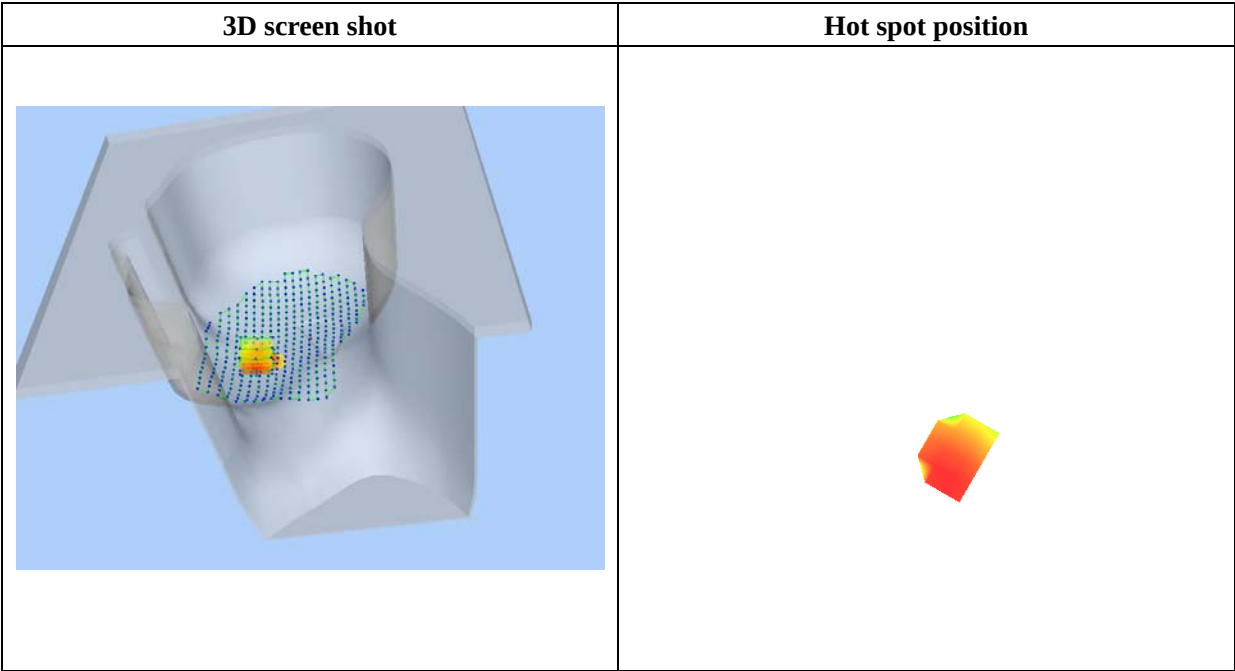
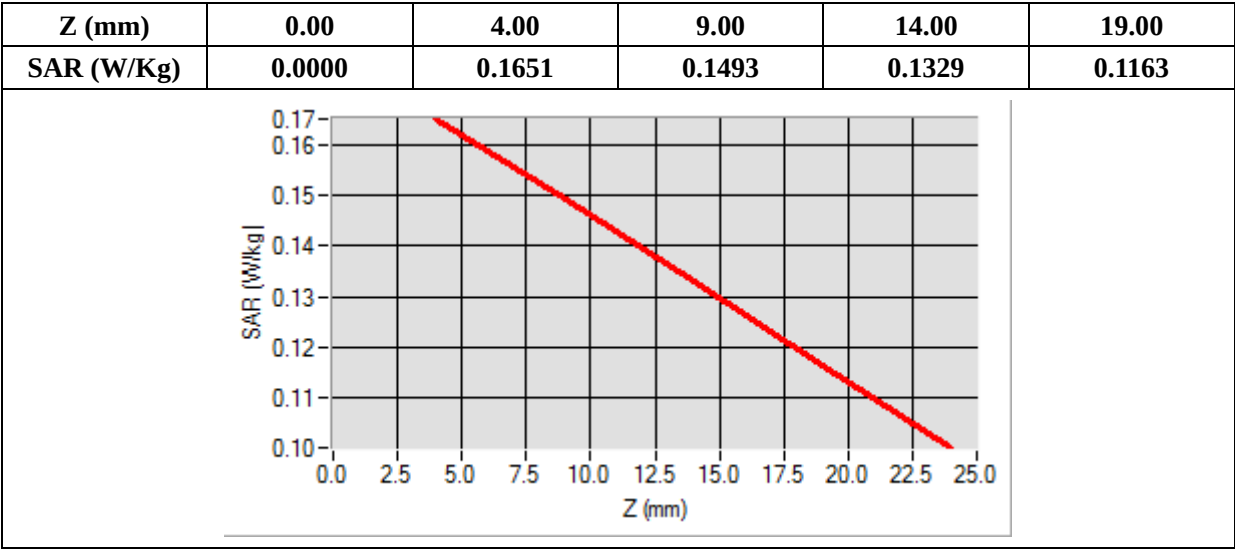
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.437900
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-51.00, Y=-31.00

SAR 10g (W/Kg)	0.132329
SAR 1g (W/Kg)	0.159767



MEASUREMENT 26

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

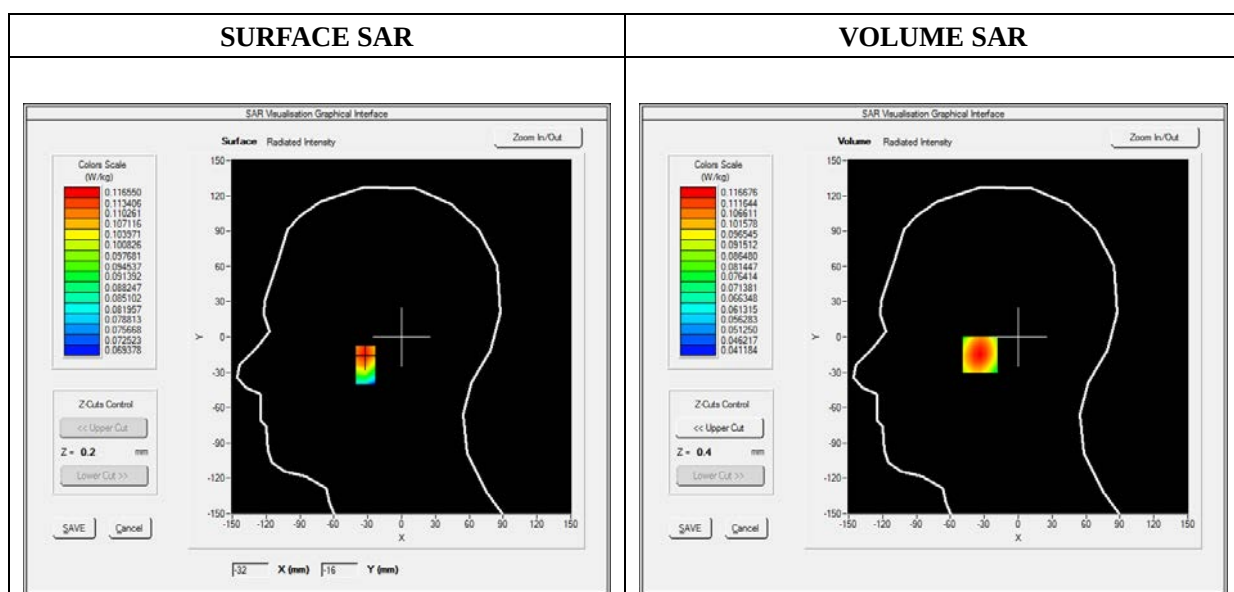
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

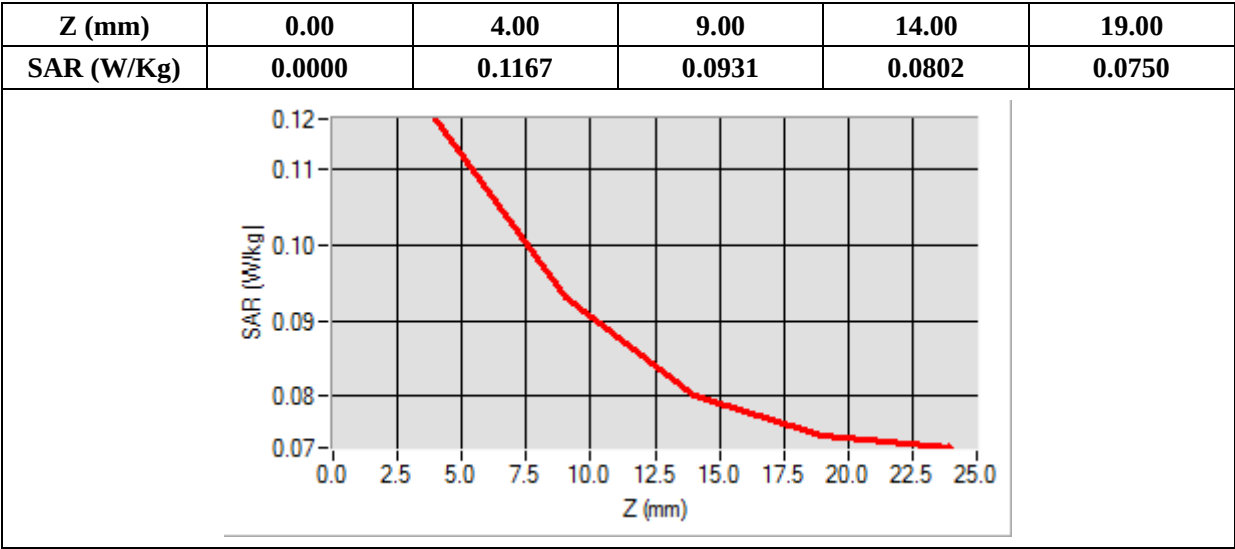
B. SAR Measurement Results

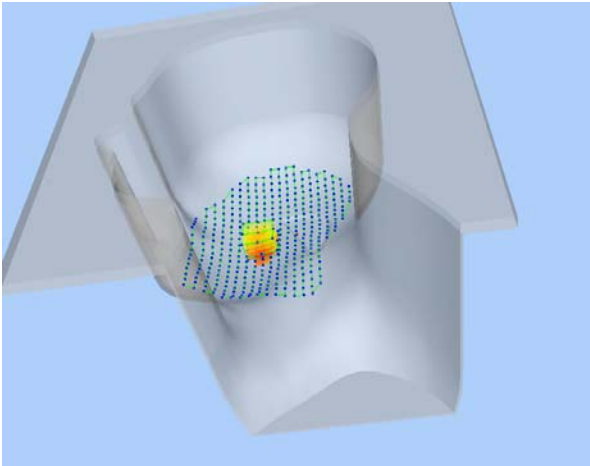
Frequency (MHz)	836.400000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.832890
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-32.00, Y=-15.00

SAR 10g (W/Kg)	0.088761
SAR 1g (W/Kg)	0.112414



3D screen shot	Hot spot position
	

MEASUREMENT 27

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

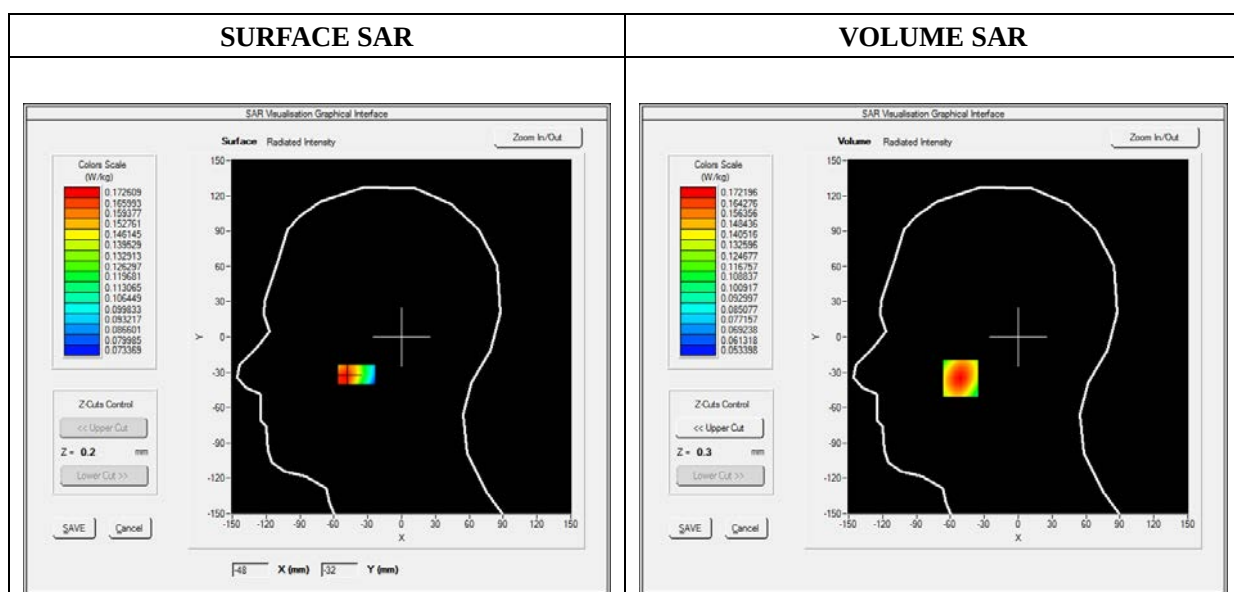
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

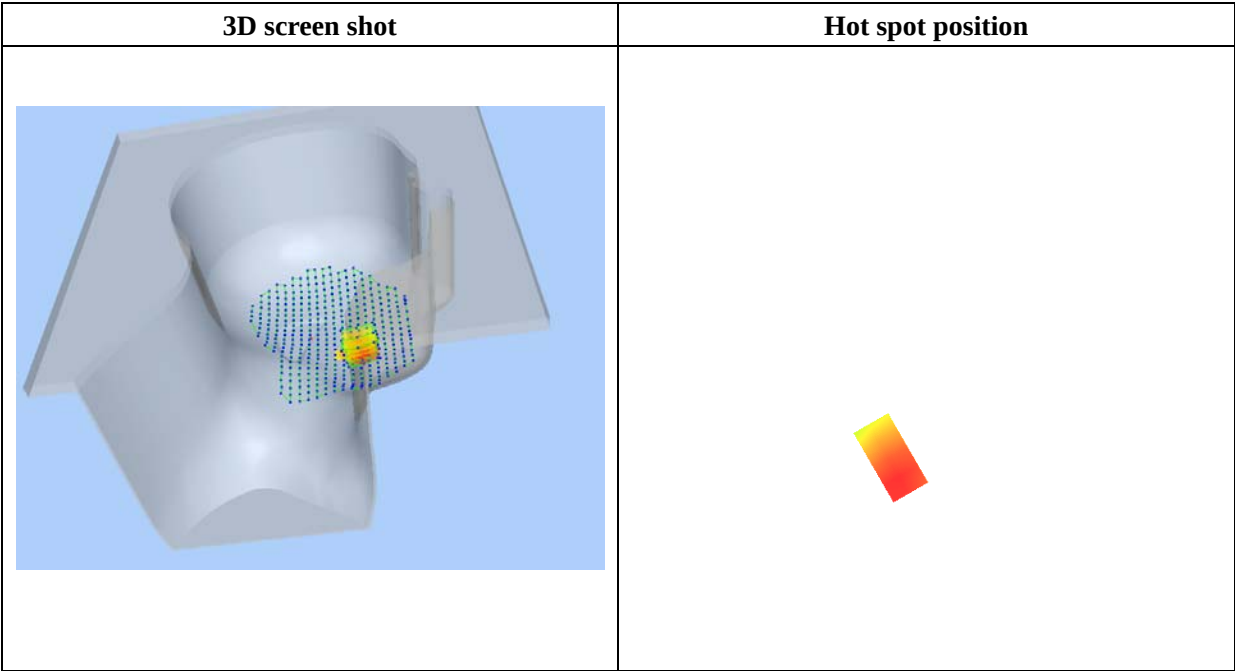
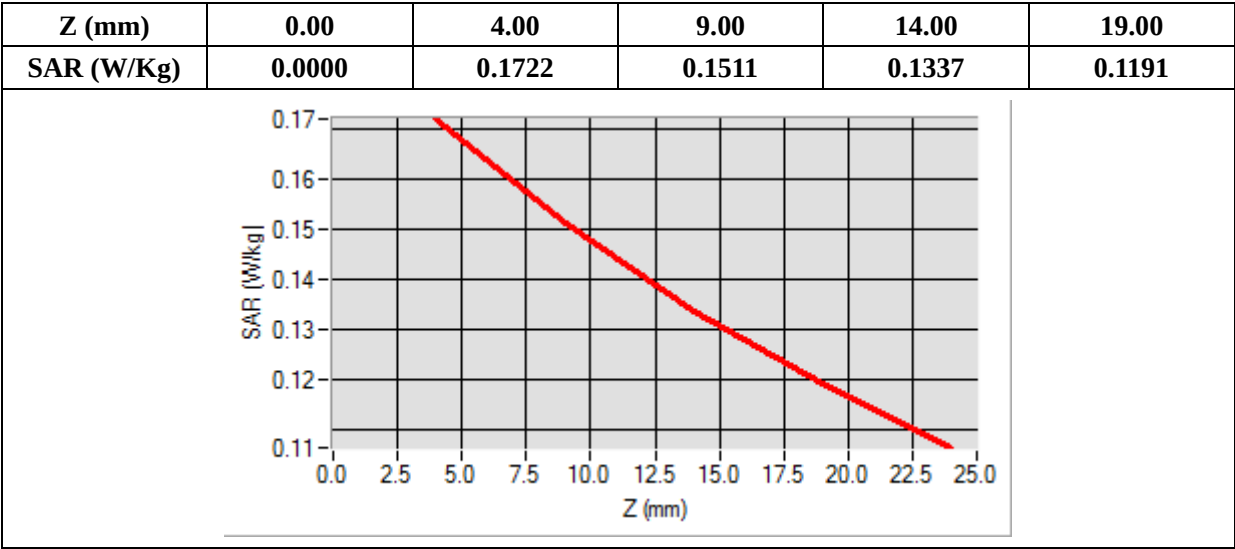
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.394389
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-51.00, Y=-35.00

SAR 10g (W/Kg)	0.135769
SAR 1g (W/Kg)	0.166089



MEASUREMENT 28

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

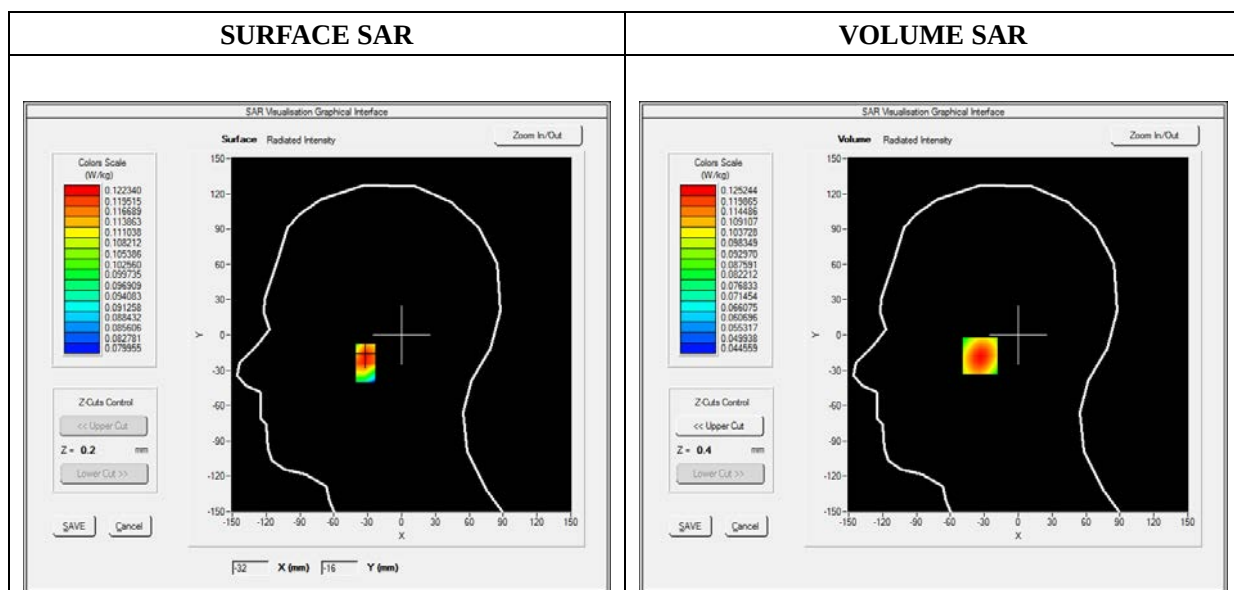
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

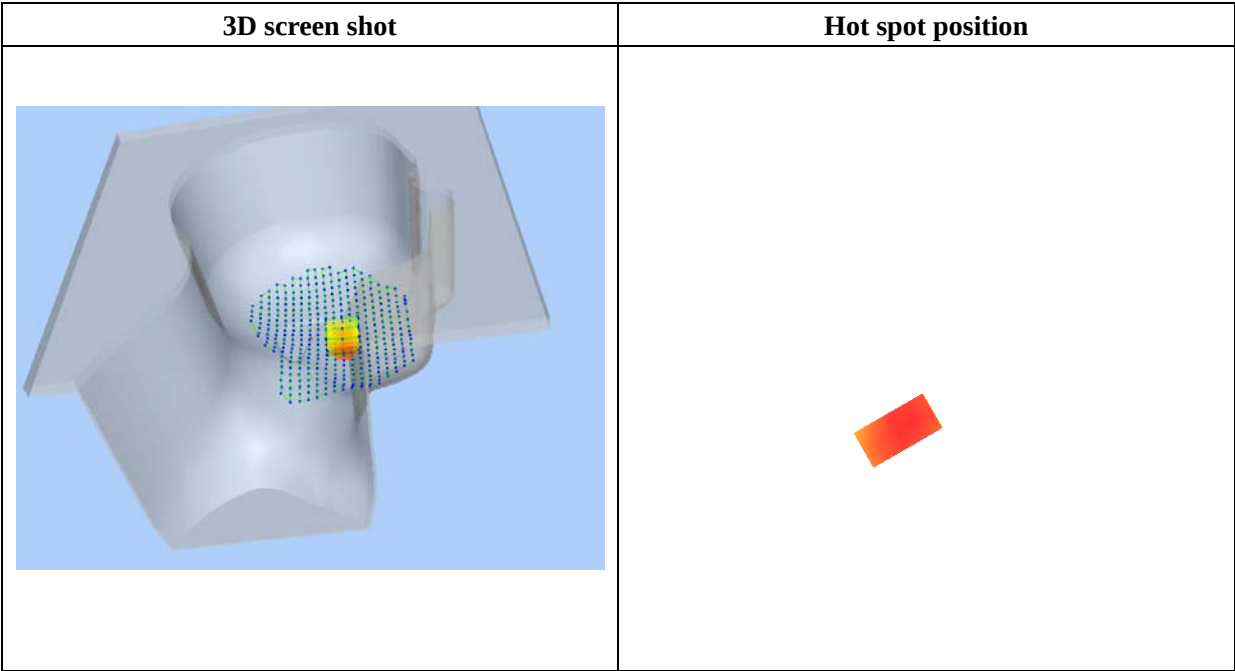
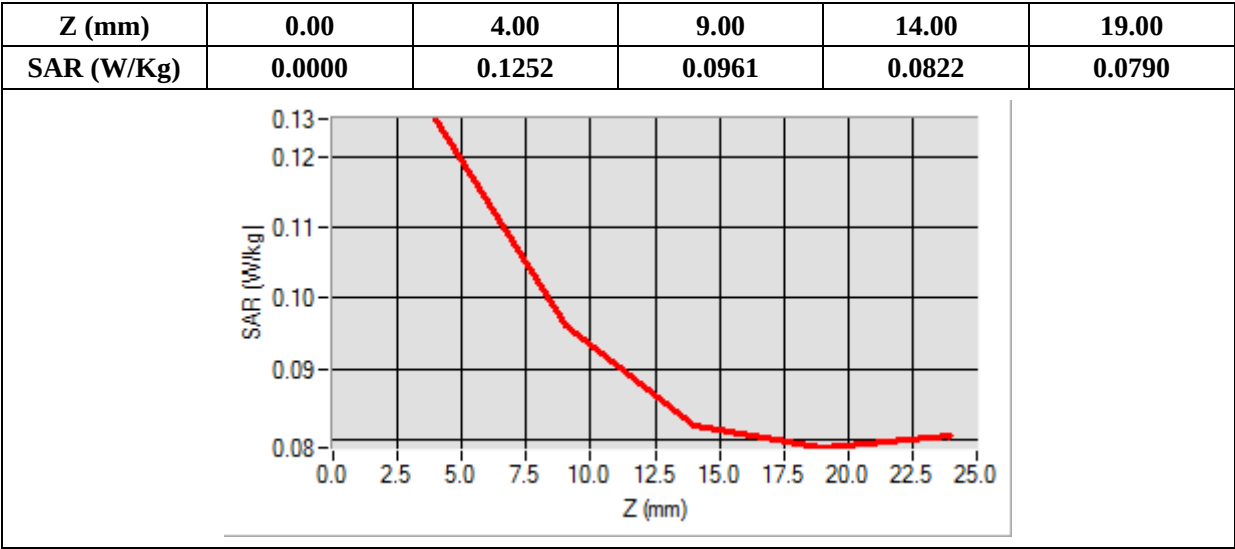
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.354780
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-32.00, Y=-18.00

SAR 10g (W/Kg)	0.094075
SAR 1g (W/Kg)	0.120722



MEASUREMENT 29

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

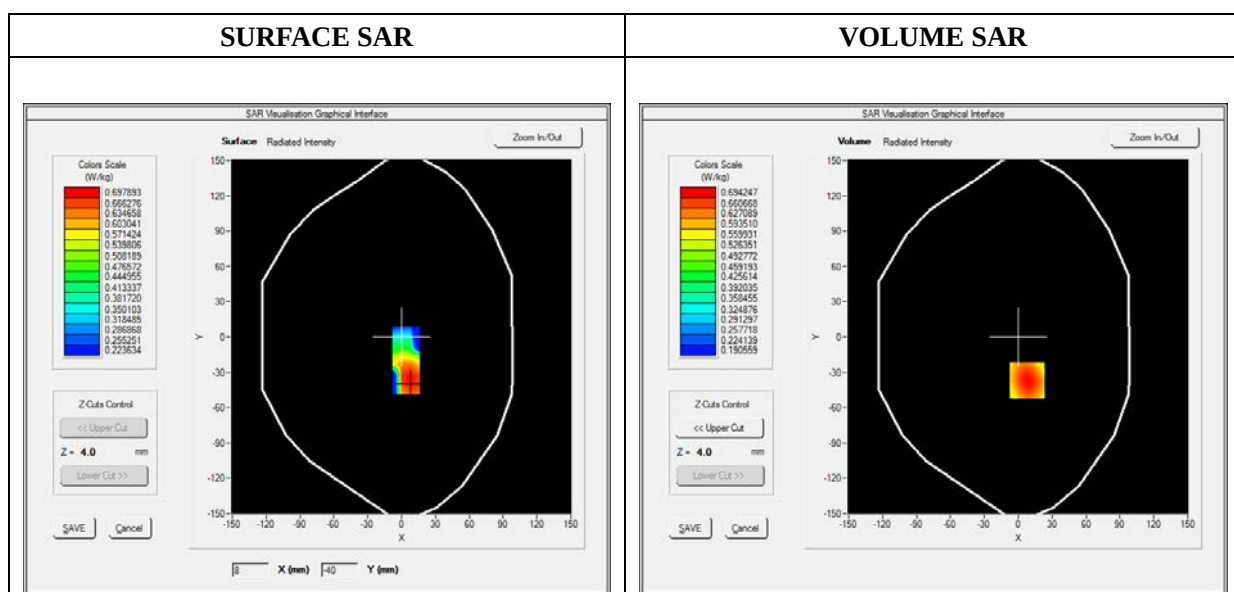
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

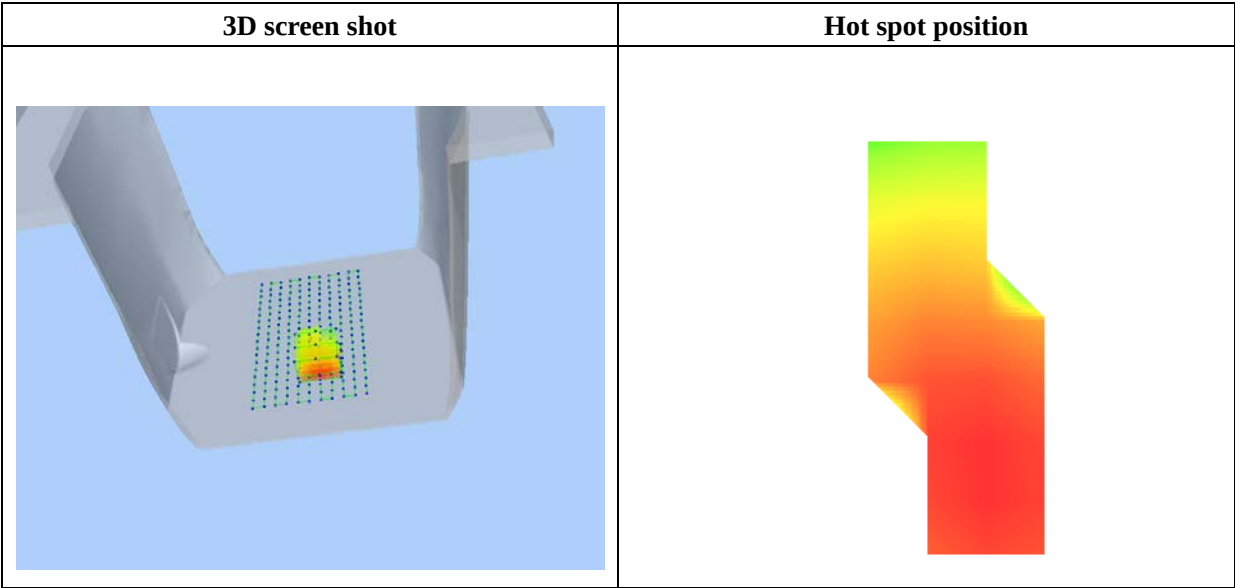
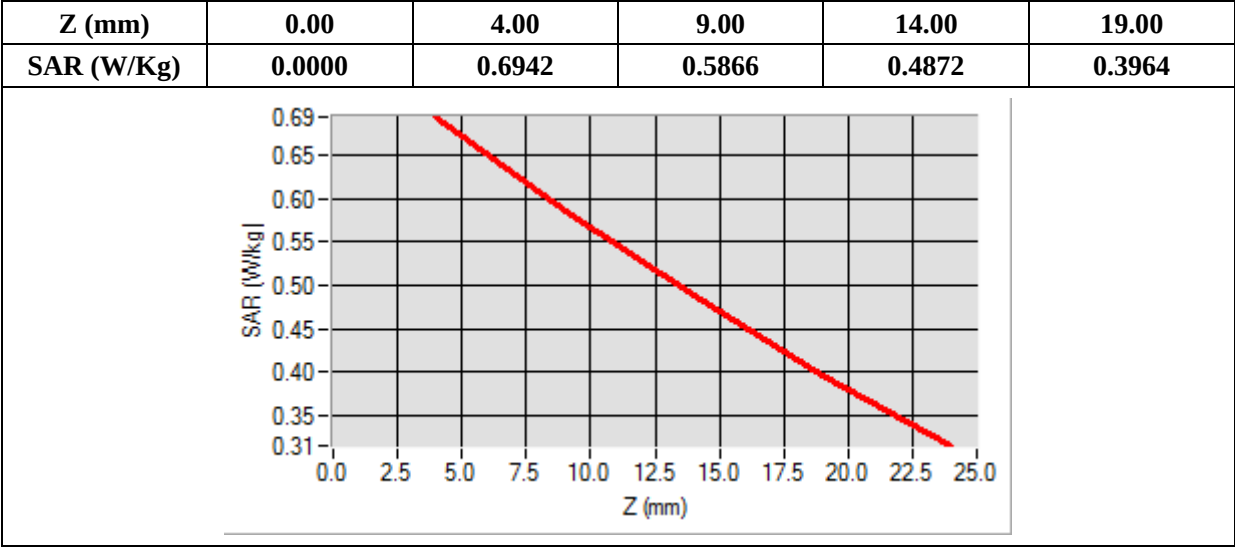
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.665680
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=8.00, Y=-37.00

SAR 10g (W/Kg)	0.526479
SAR 1g (W/Kg)	0.669312



MEASUREMENT 30

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

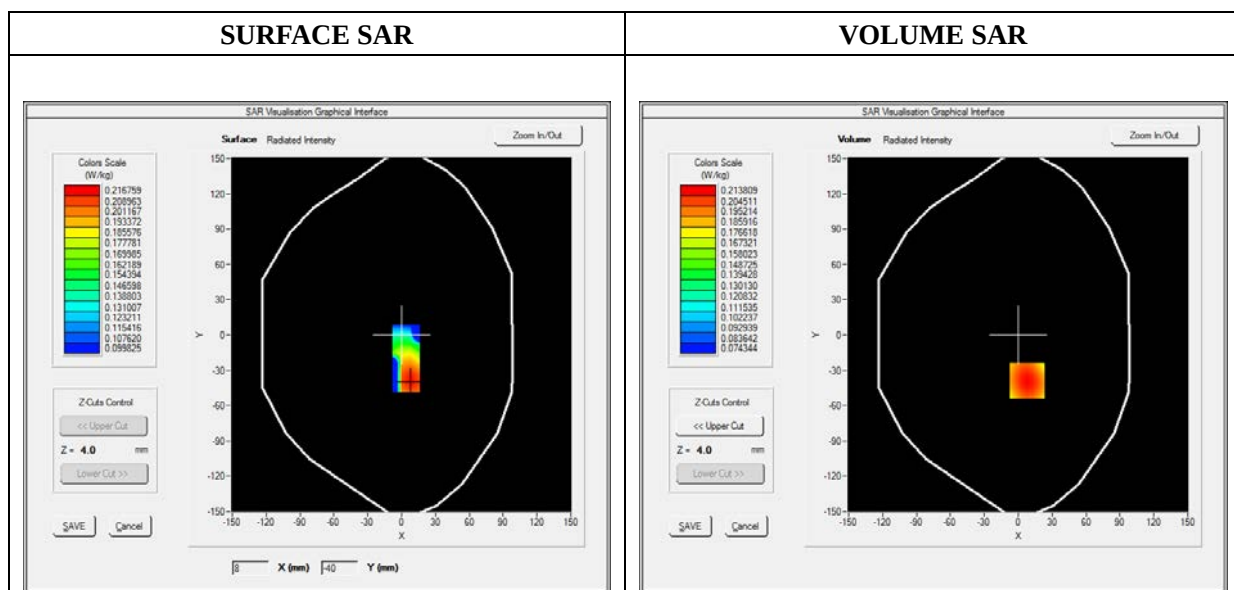
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

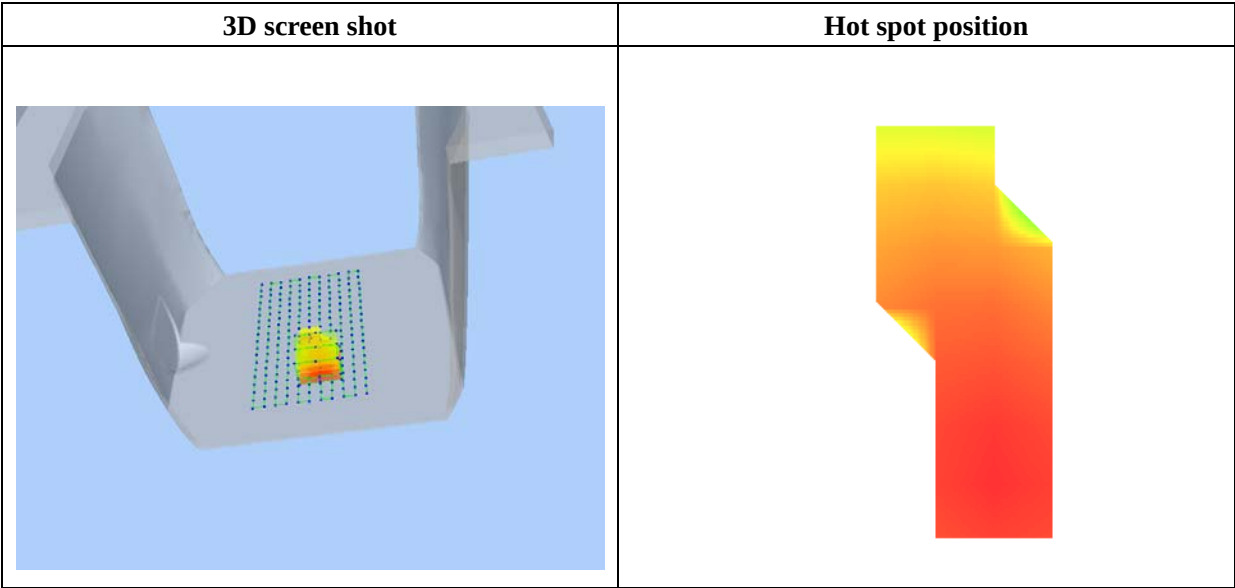
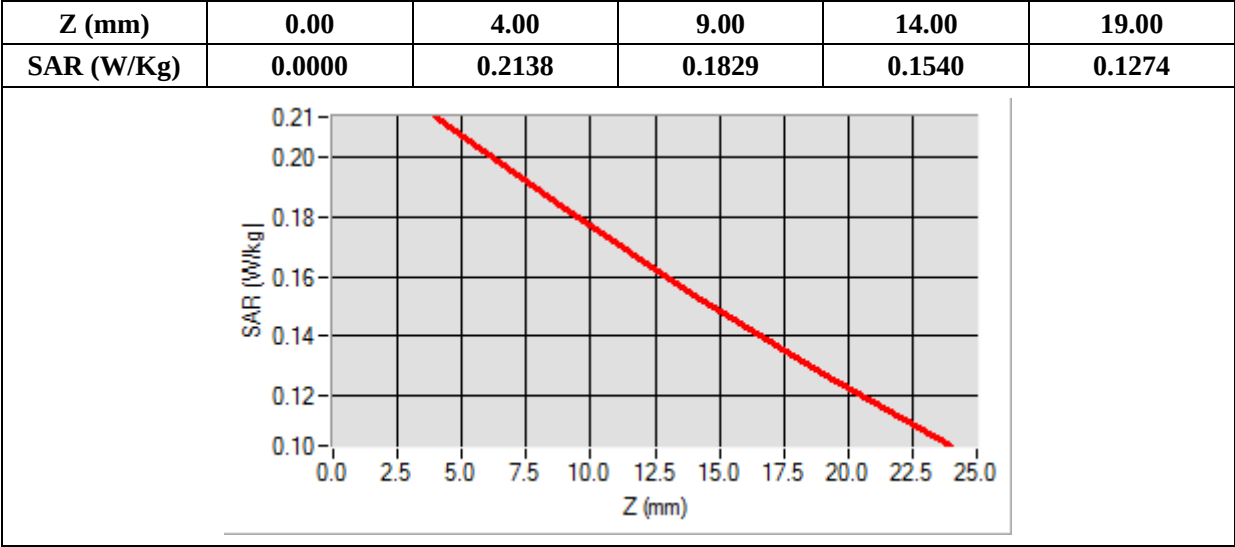
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.694370
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=8.00, Y=-39.00

SAR 10g (W/Kg)	0.166519
SAR 1g (W/Kg)	0.207166



MEASUREMENT 31

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

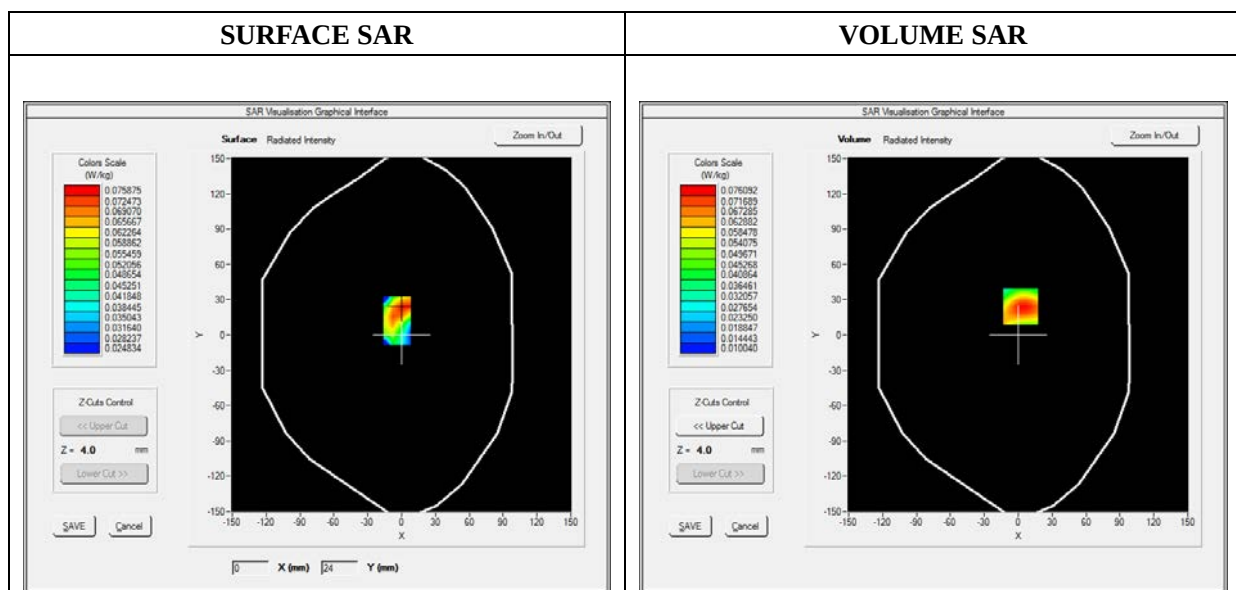
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

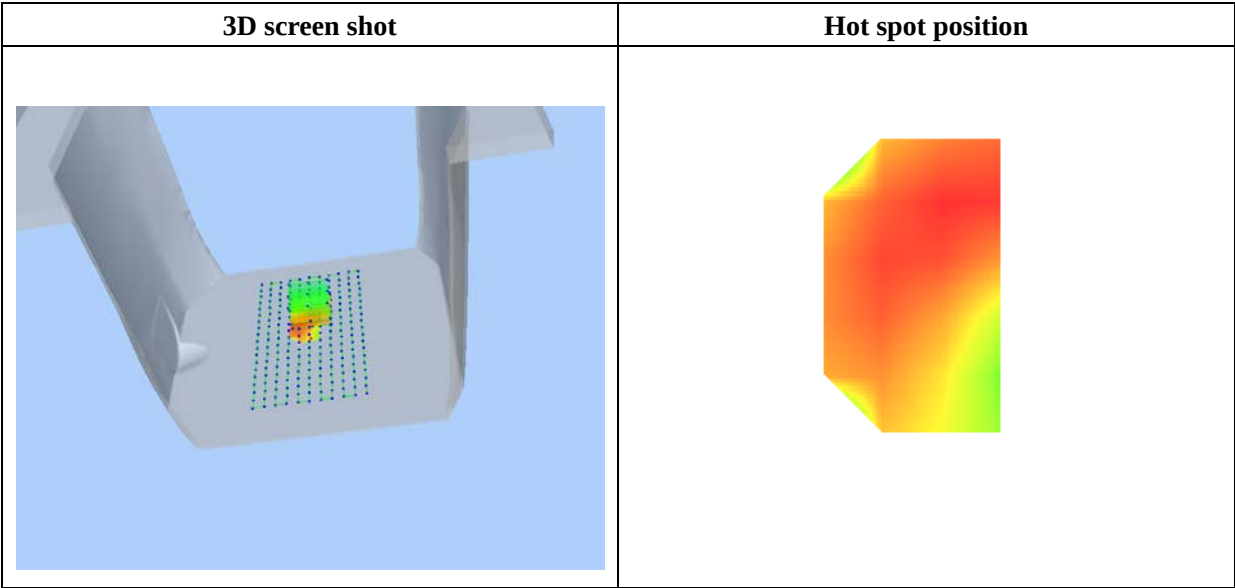
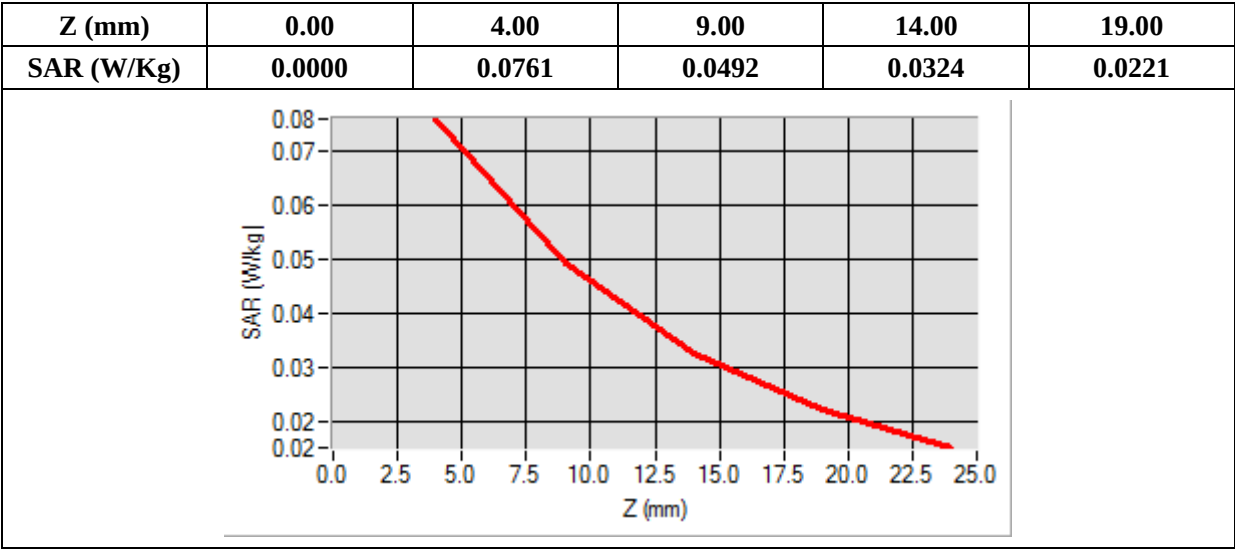
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.495490
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=2.00, Y=24.00

SAR 10g (W/Kg)	0.044904
SAR 1g (W/Kg)	0.071729



MEASUREMENT 32

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

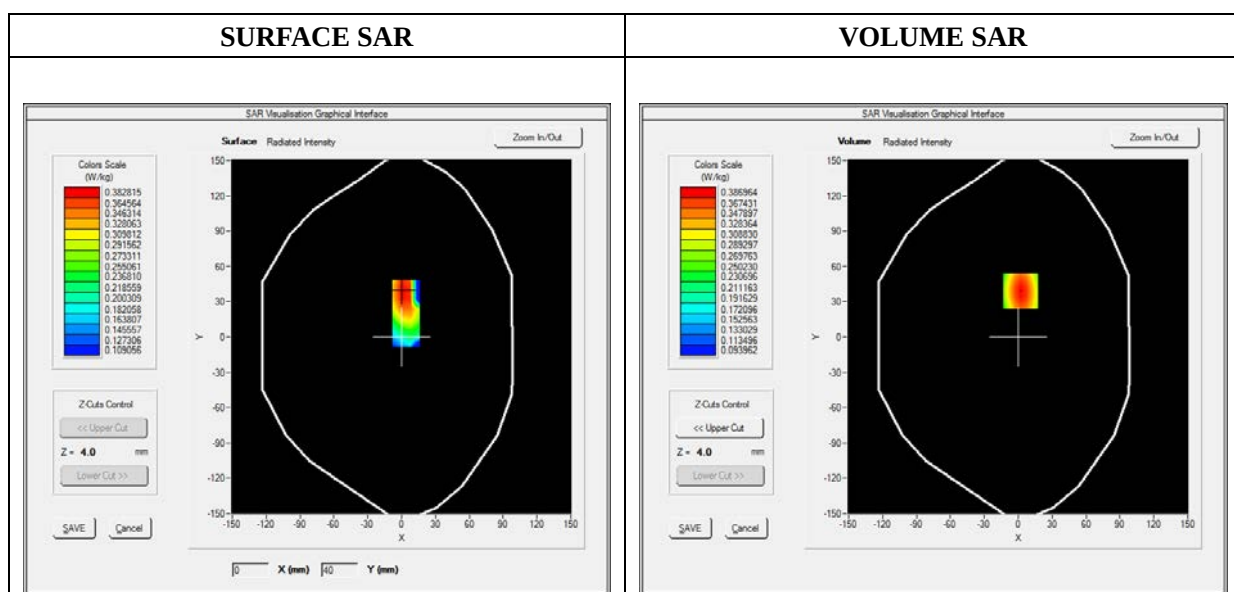
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

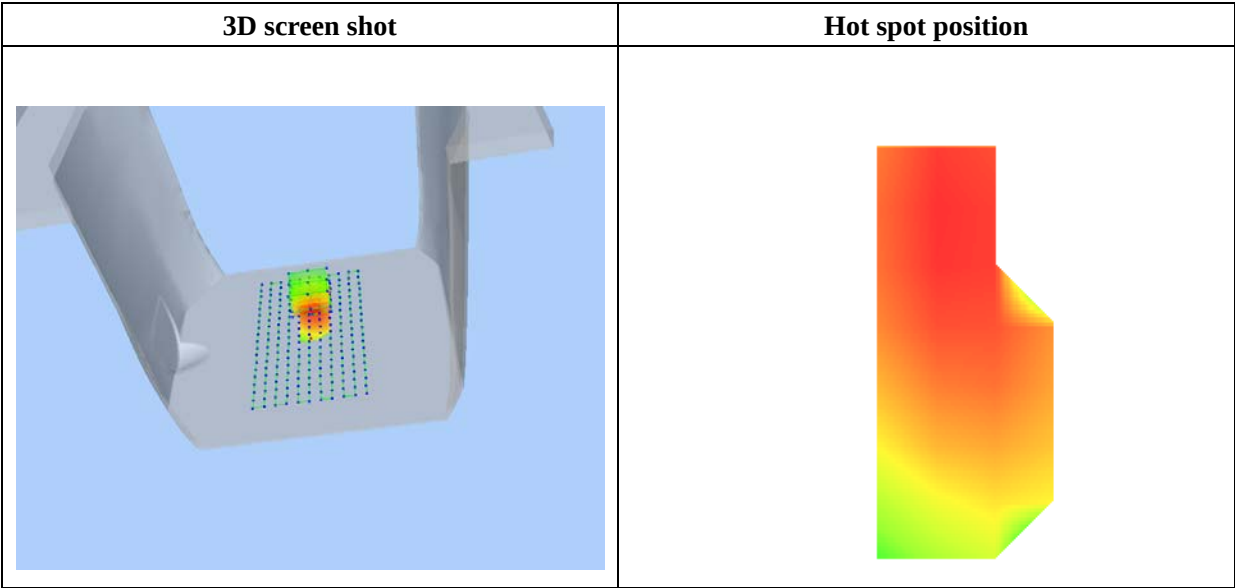
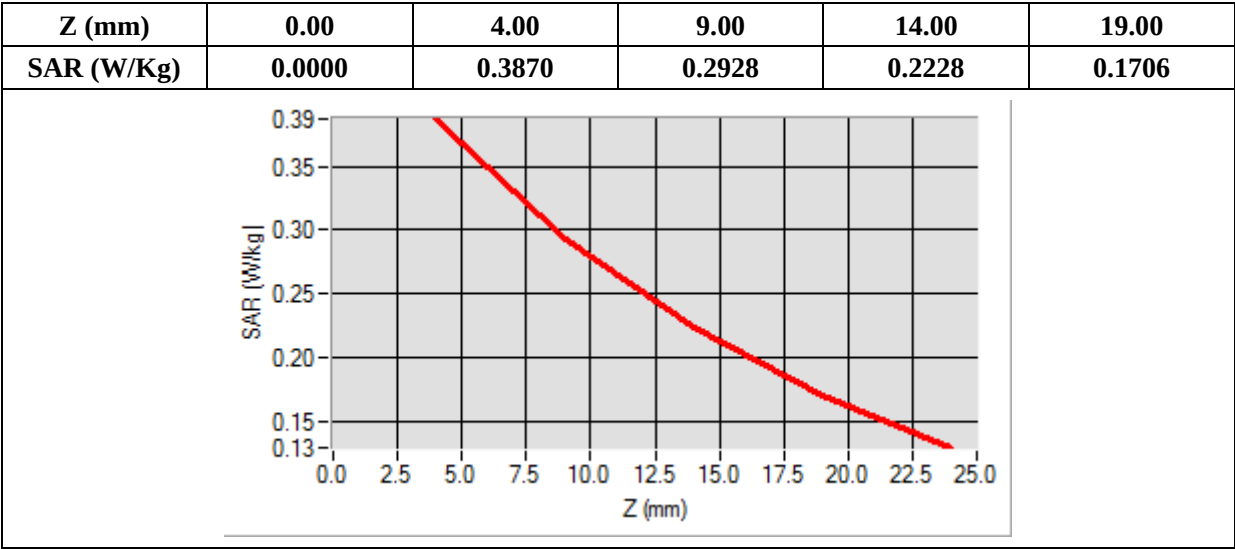
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.495481
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=2.00, Y=39.00

SAR 10g (W/Kg)	0.264698
SAR 1g (W/Kg)	0.368208



MEASUREMENT 33

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

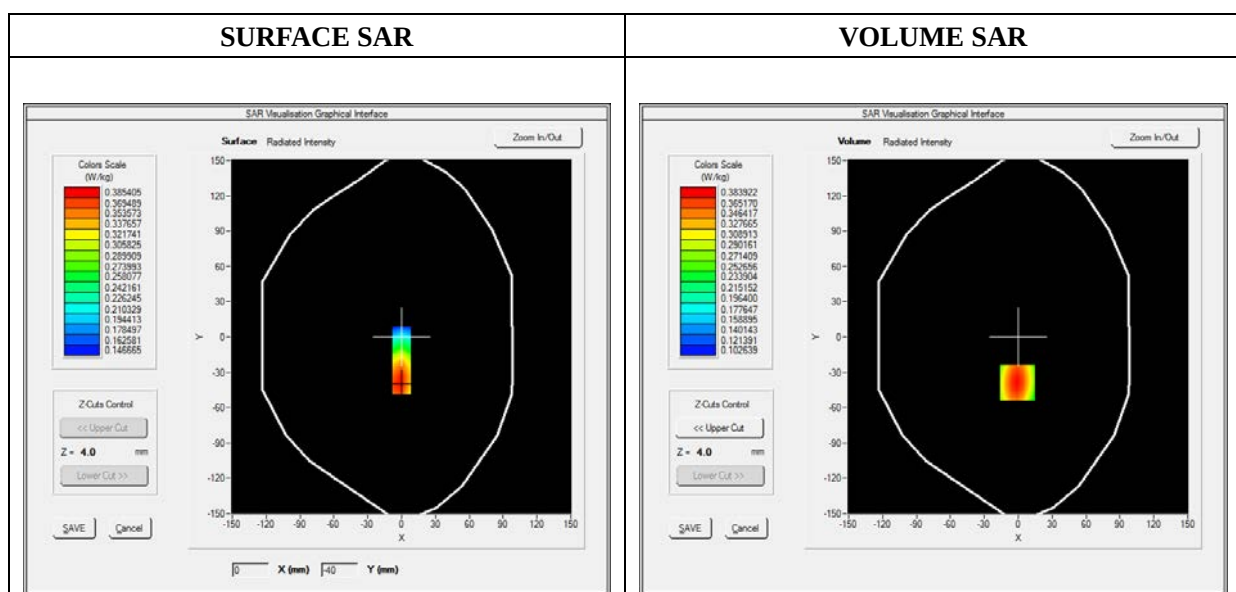
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

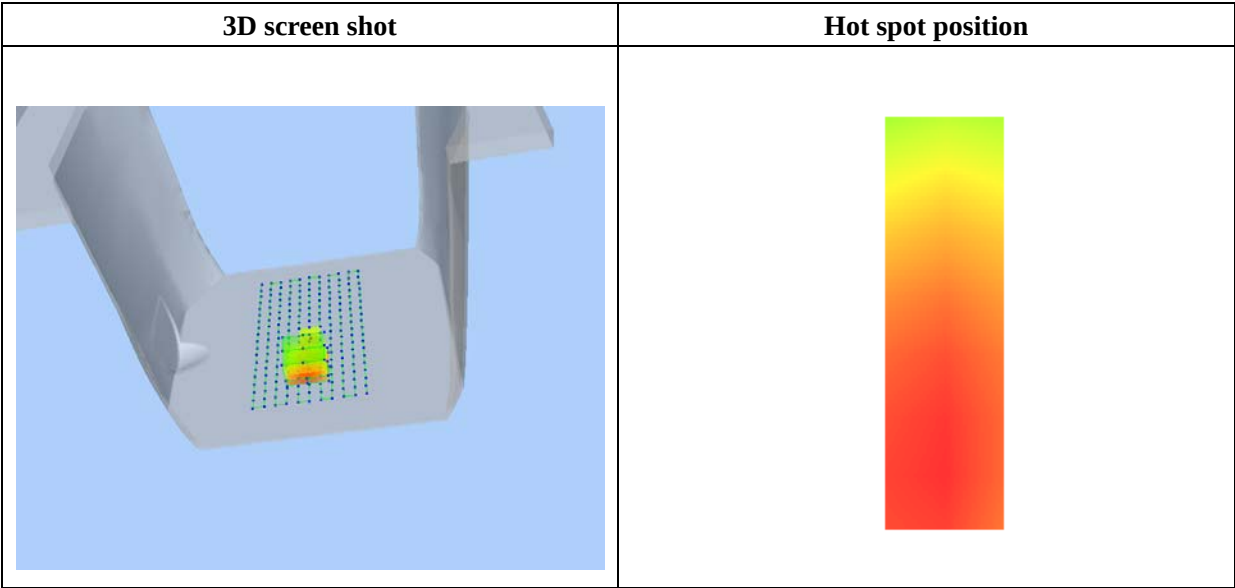
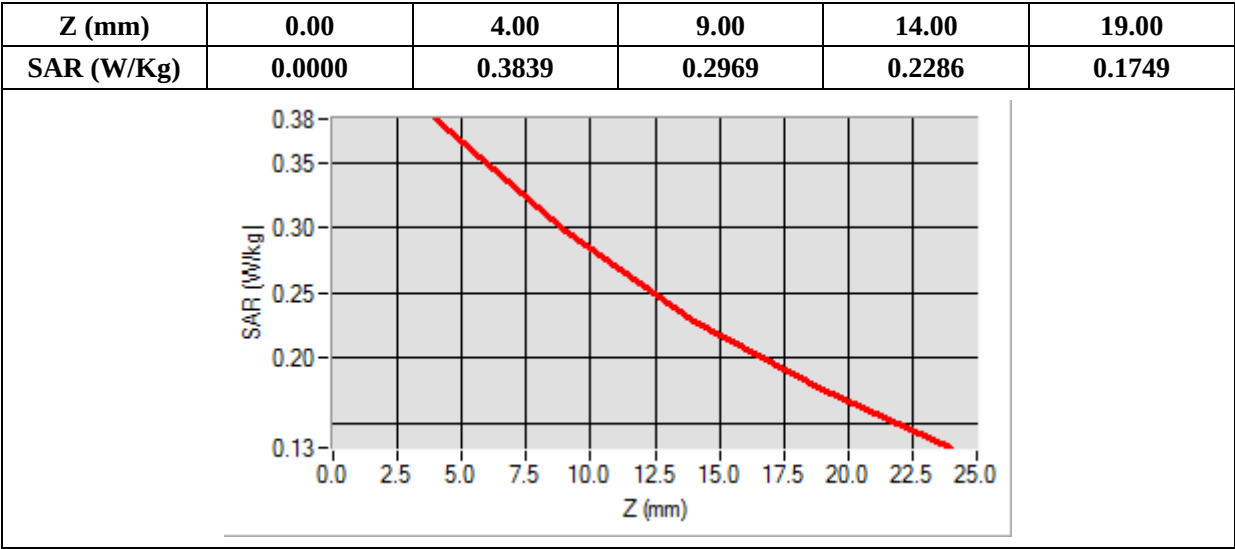
B. SAR Measurement Results

Frequency (MHz)	836.400000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.631250
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-1.00, Y=-39.00

SAR 10g (W/Kg)	0.266500
SAR 1g (W/Kg)	0.365604



MEASUREMENT 34

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

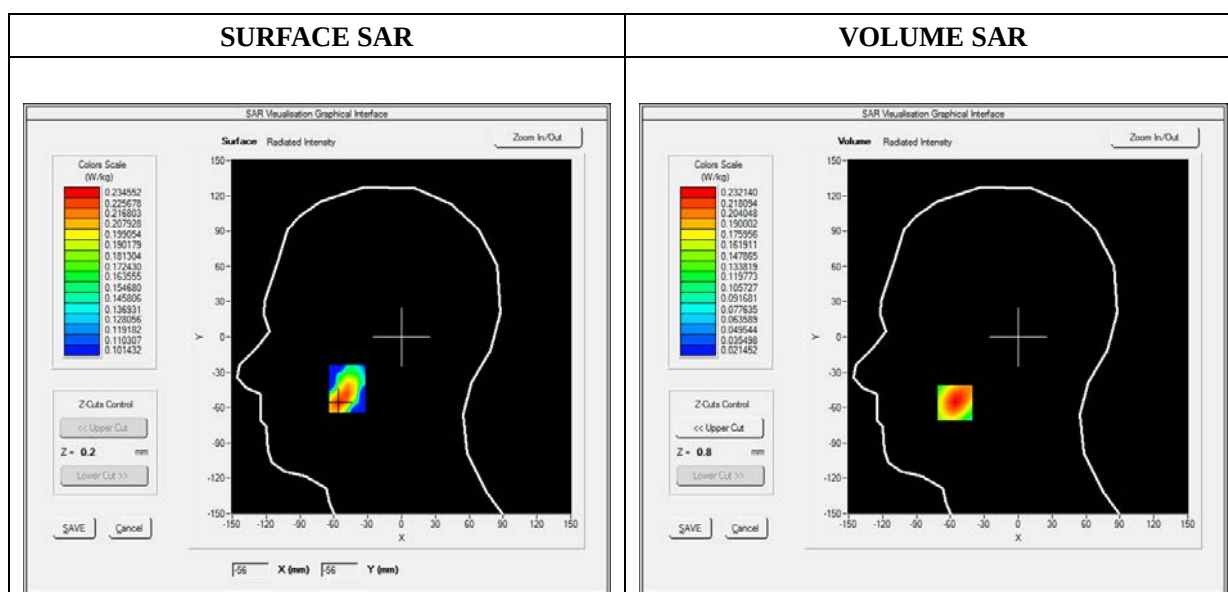
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

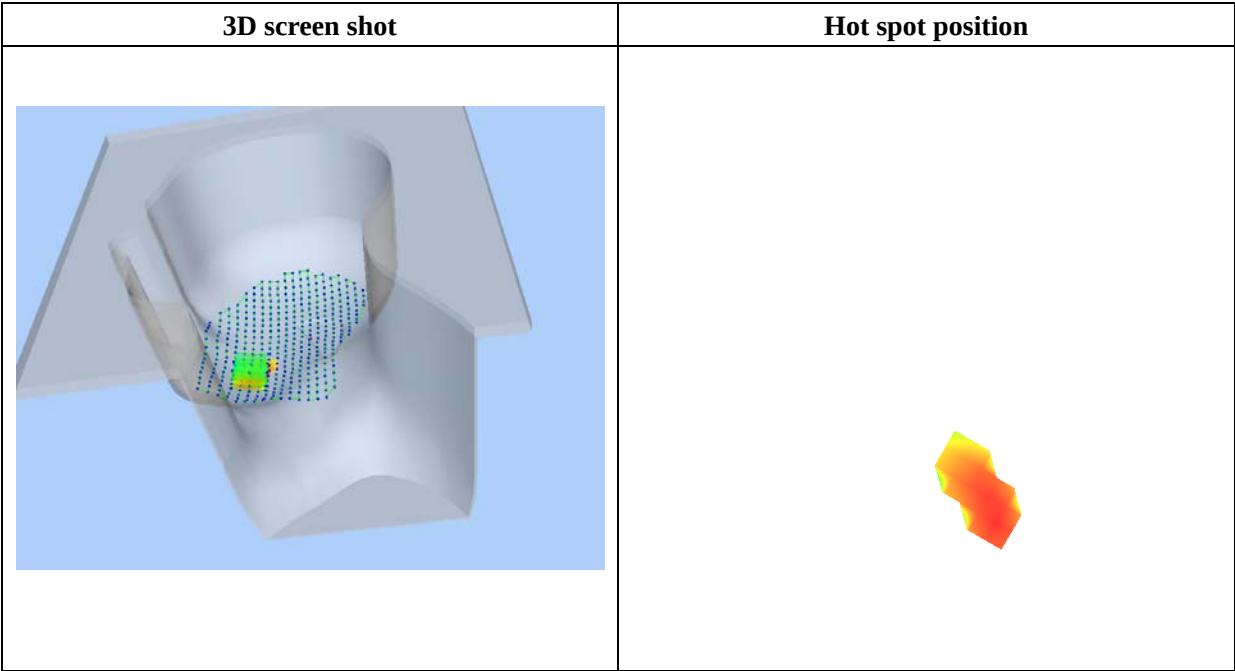
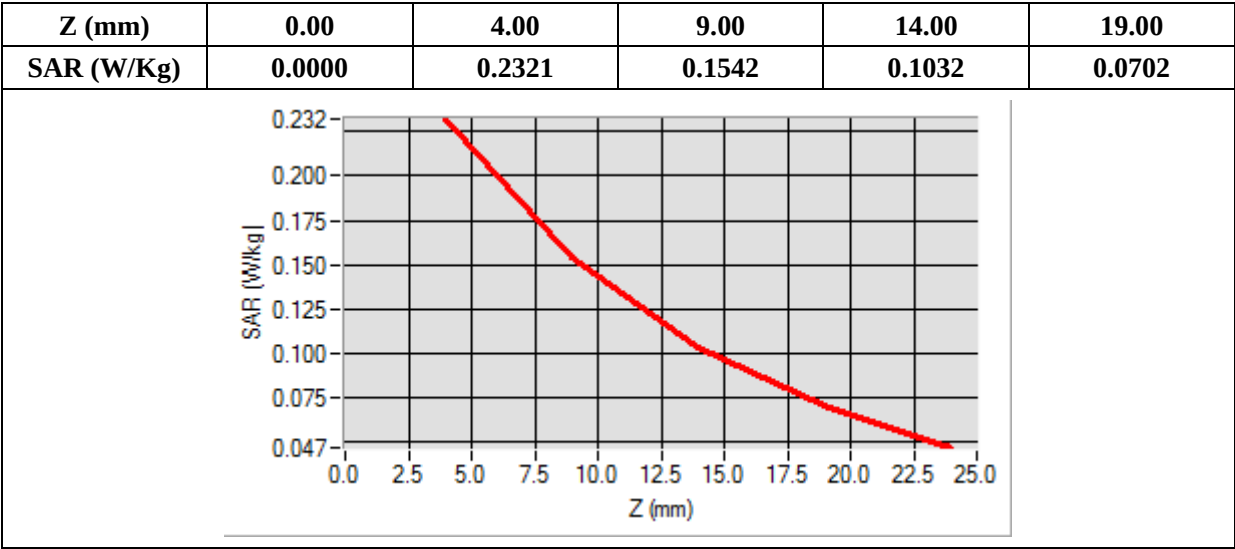
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.023410
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.140475
SAR 1g (W/Kg)	0.219142



MEASUREMENT 35

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

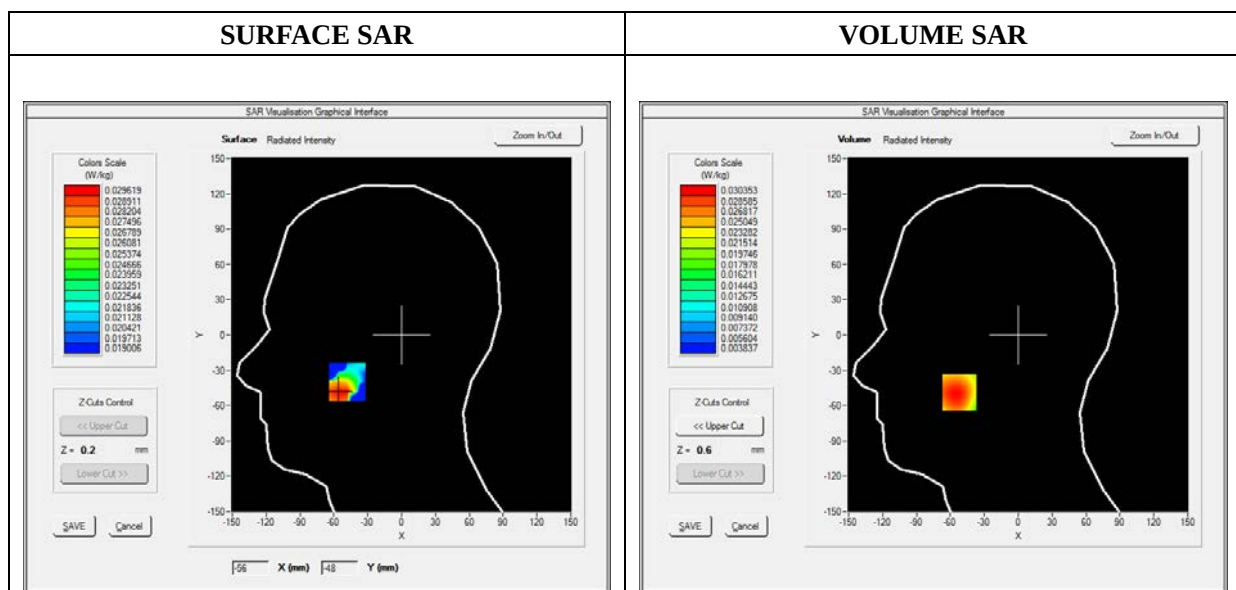
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

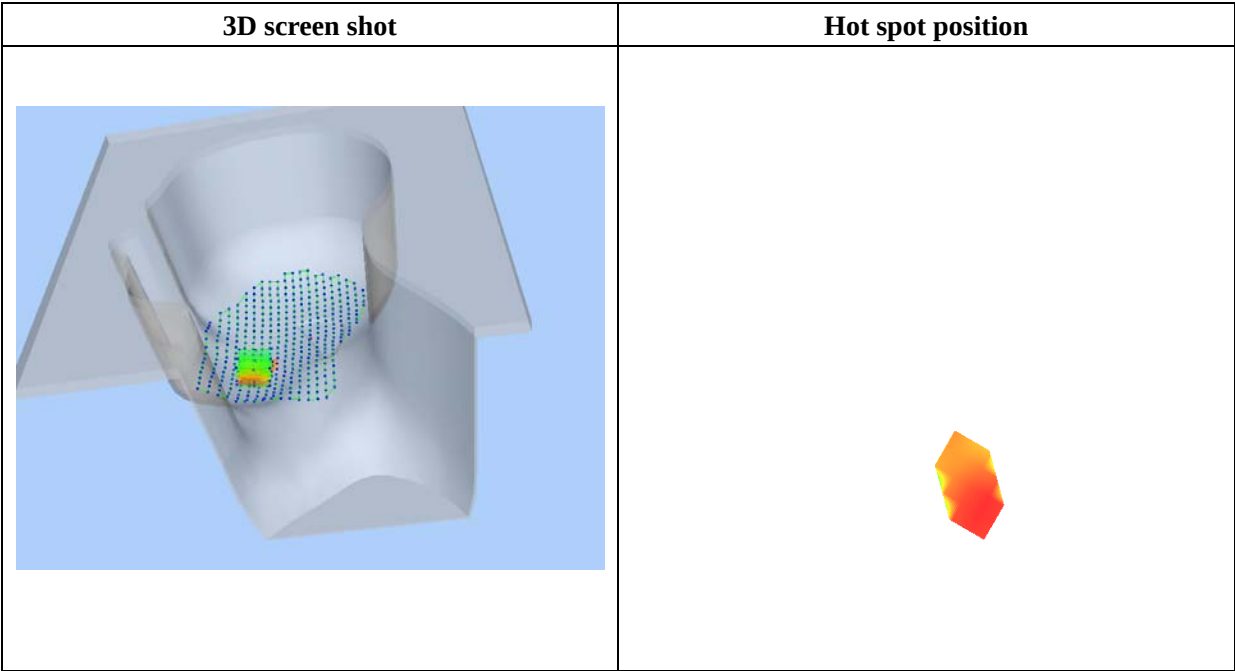
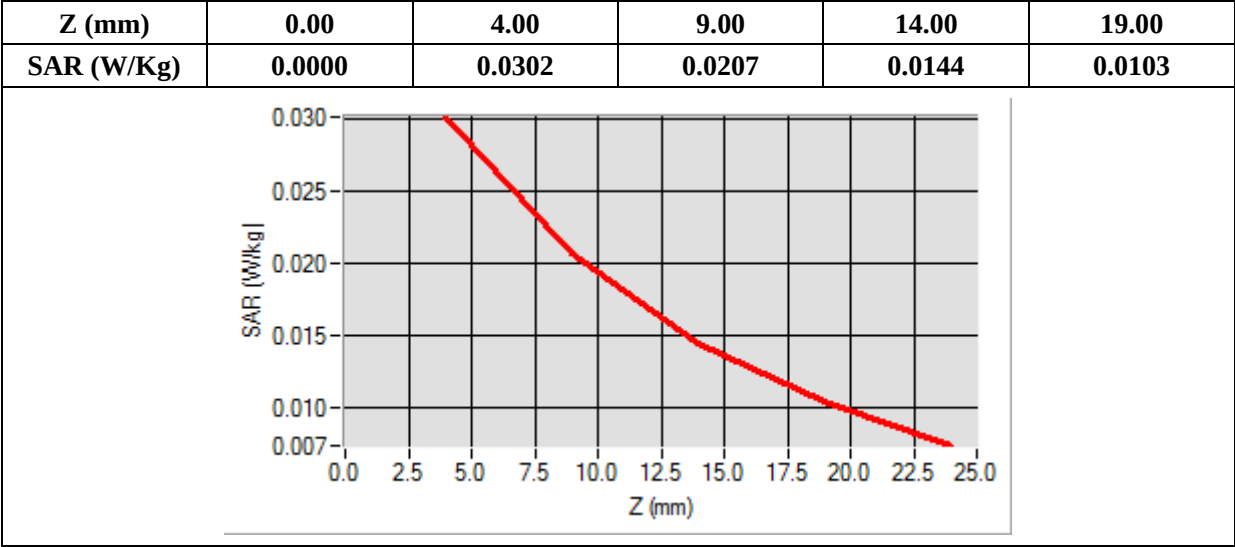
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.156900
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-52.00, Y=-49.00

SAR 10g (W/Kg)	0.019412
SAR 1g (W/Kg)	0.029007



MEASUREMENT 36

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

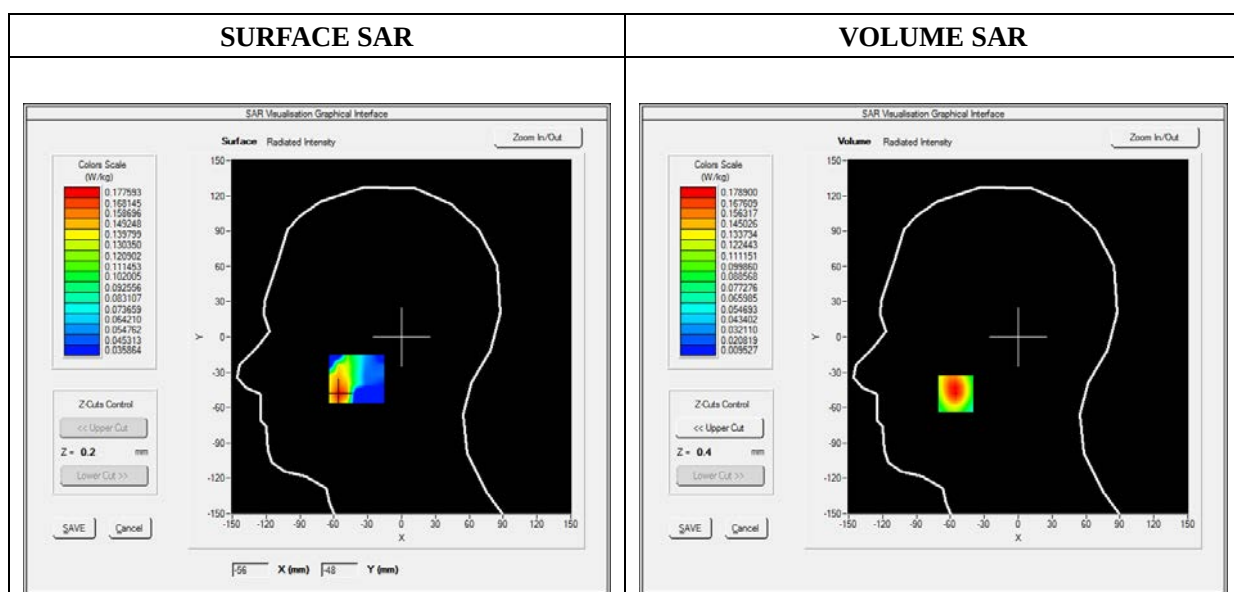
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

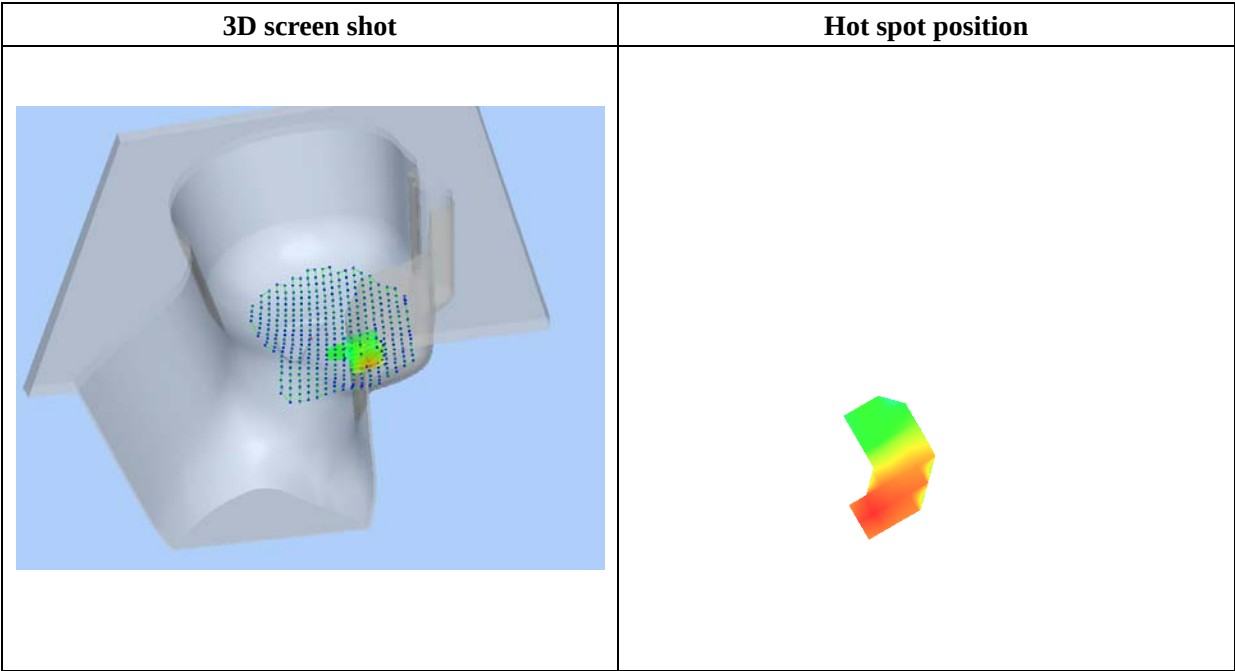
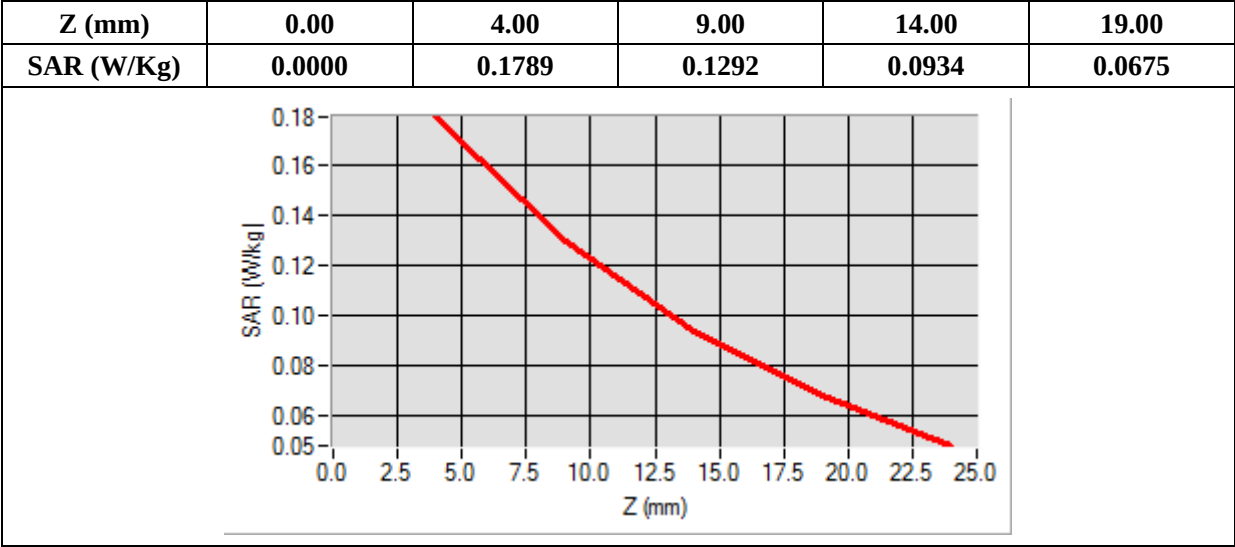
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	0.785900
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-55.00, Y=-48.00

SAR 10g (W/Kg)	0.109001
SAR 1g (W/Kg)	0.168671



MEASUREMENT 37

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

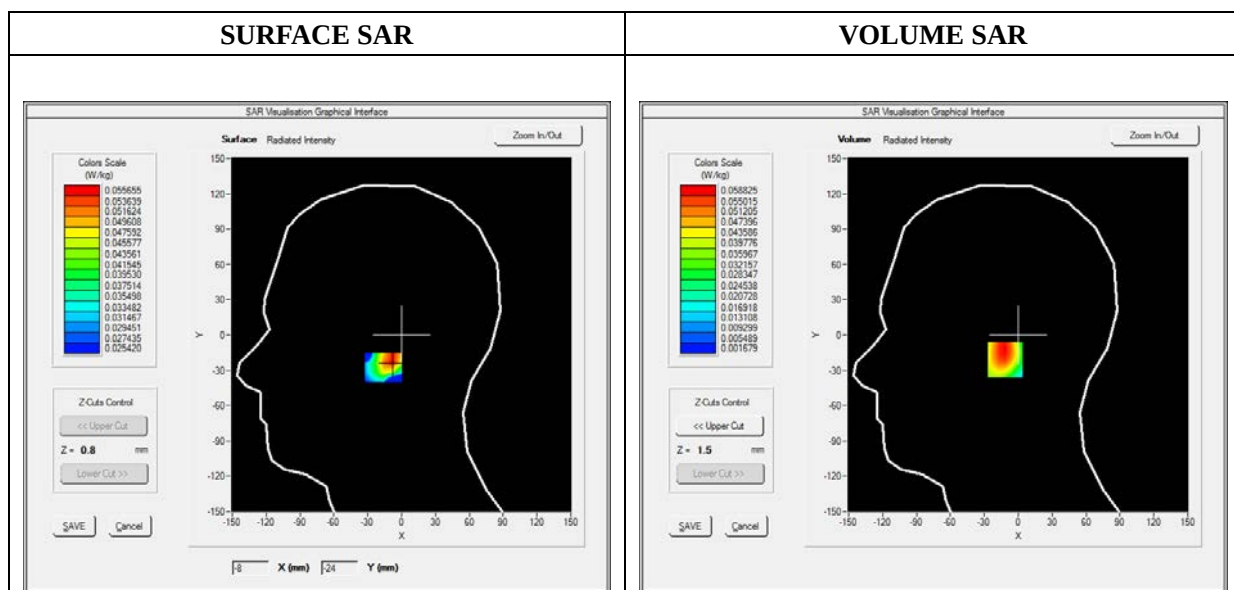
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

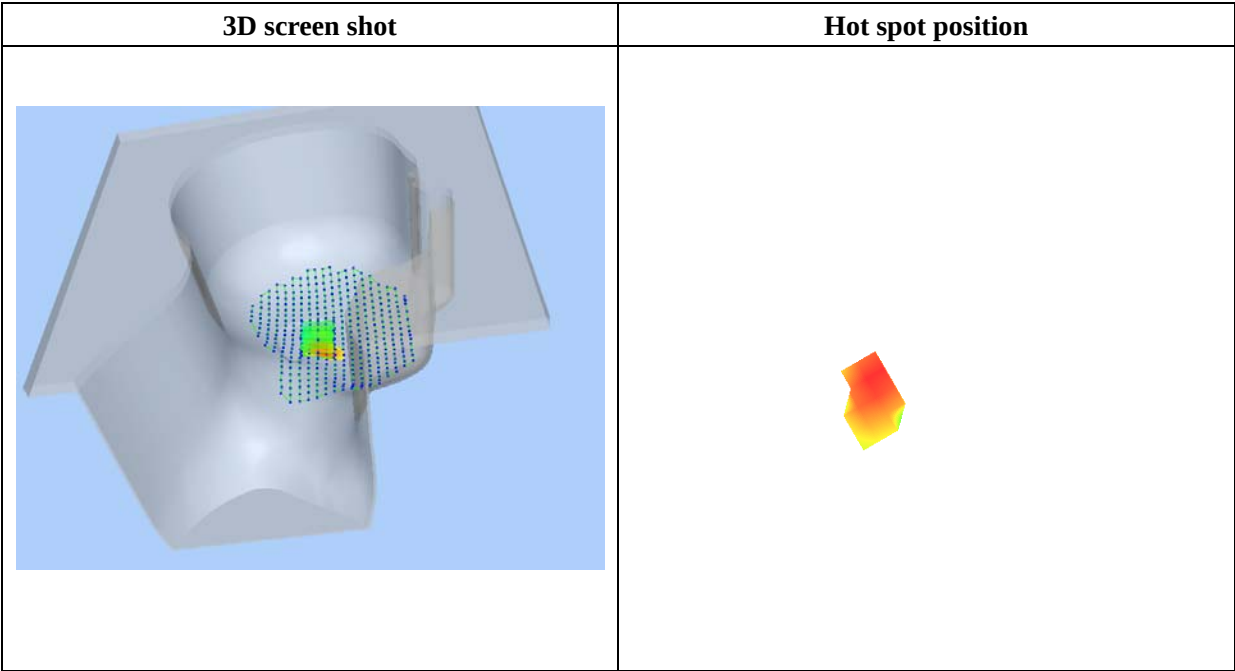
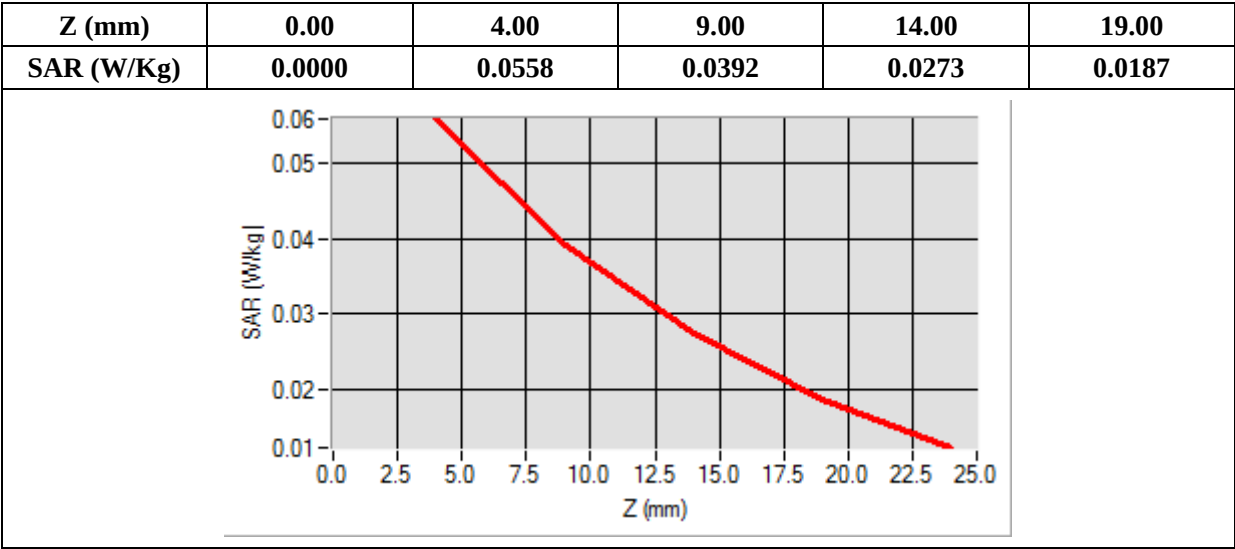
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.167800
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-8.00, Y=-21.00

SAR 10g (W/Kg)	0.036255
SAR 1g (W/Kg)	0.055613



MEASUREMENT 38

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

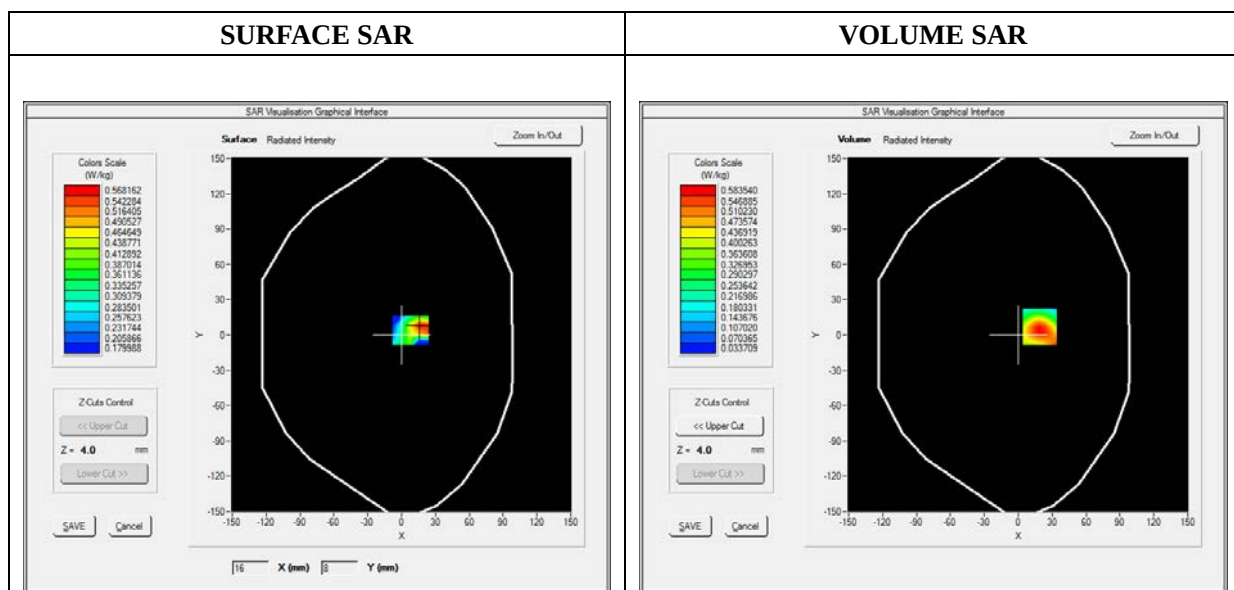
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

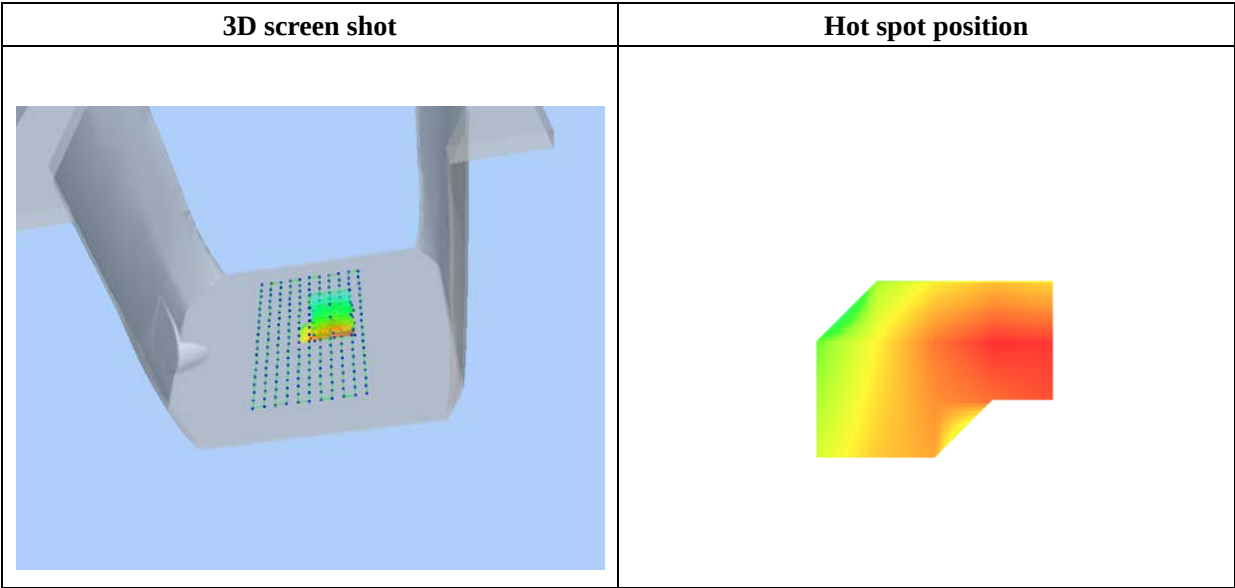
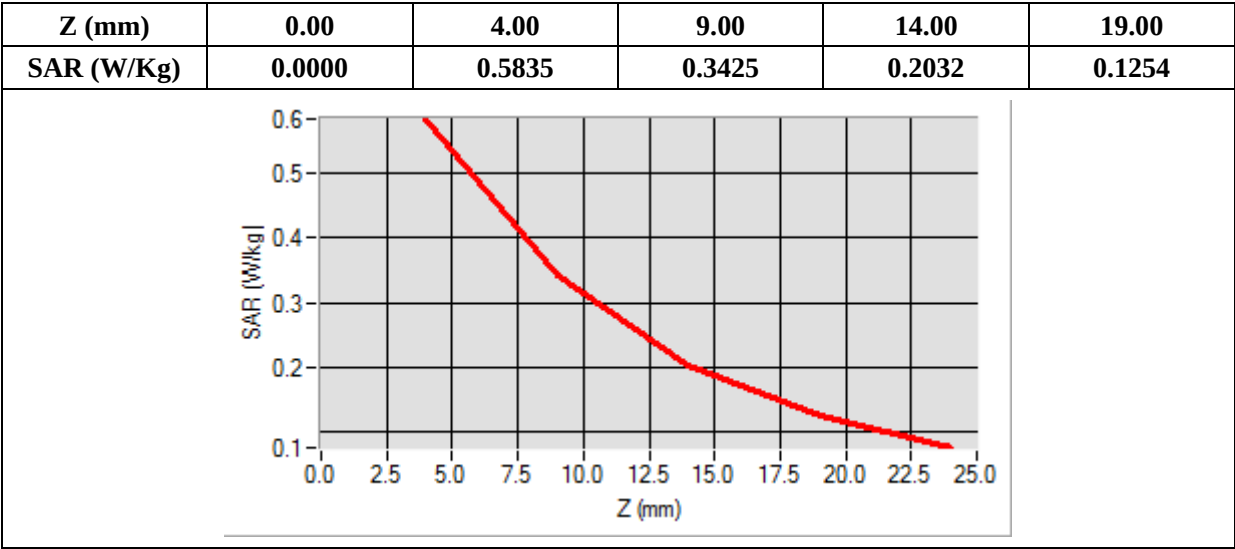
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.453270
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=19.00, Y=7.00

SAR 10g (W/Kg)	0.312322
SAR 1g (W/Kg)	0.547642



MEASUREMENT 39

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

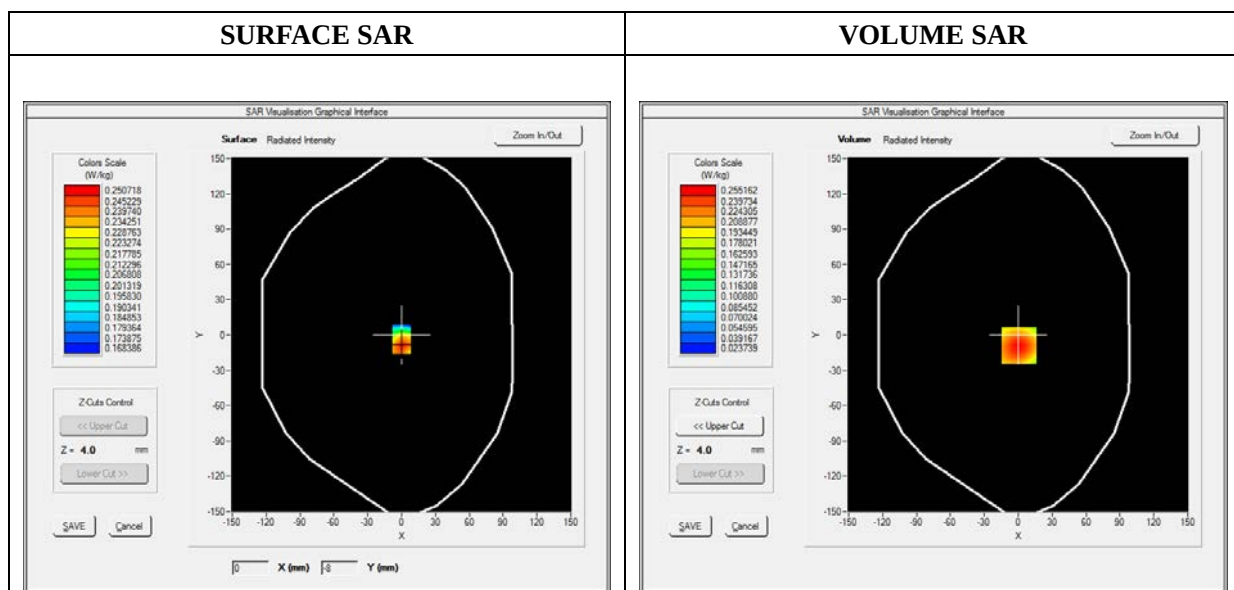
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

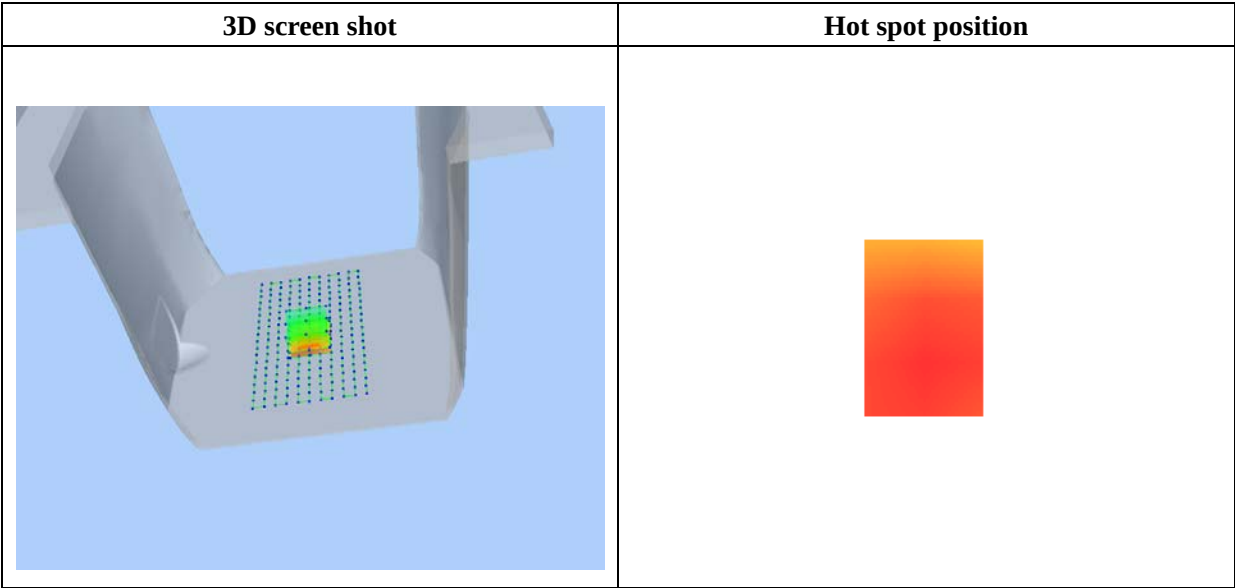
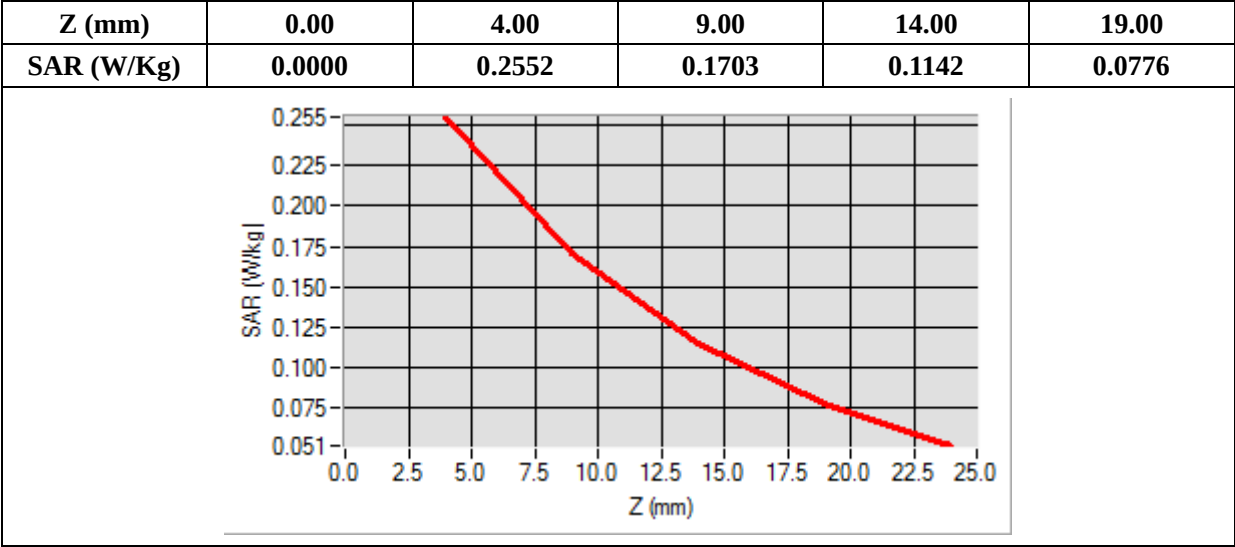
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.382387
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=-9.00

SAR 10g (W/Kg)	0.156187
SAR 1g (W/Kg)	0.241403



MEASUREMENT 40

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

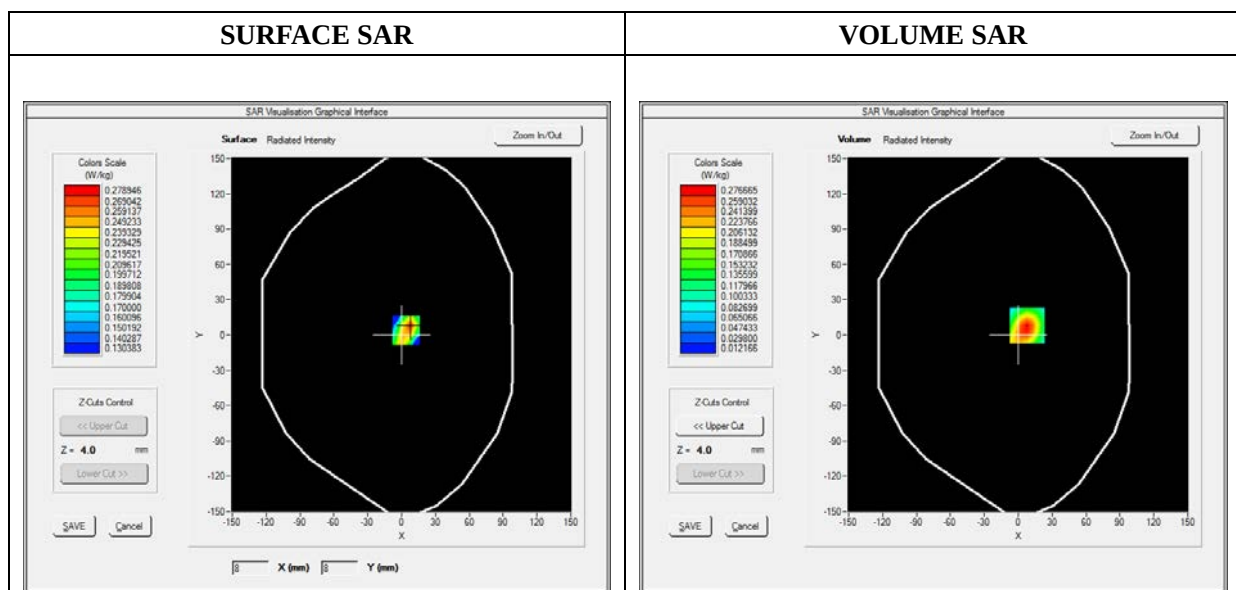
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

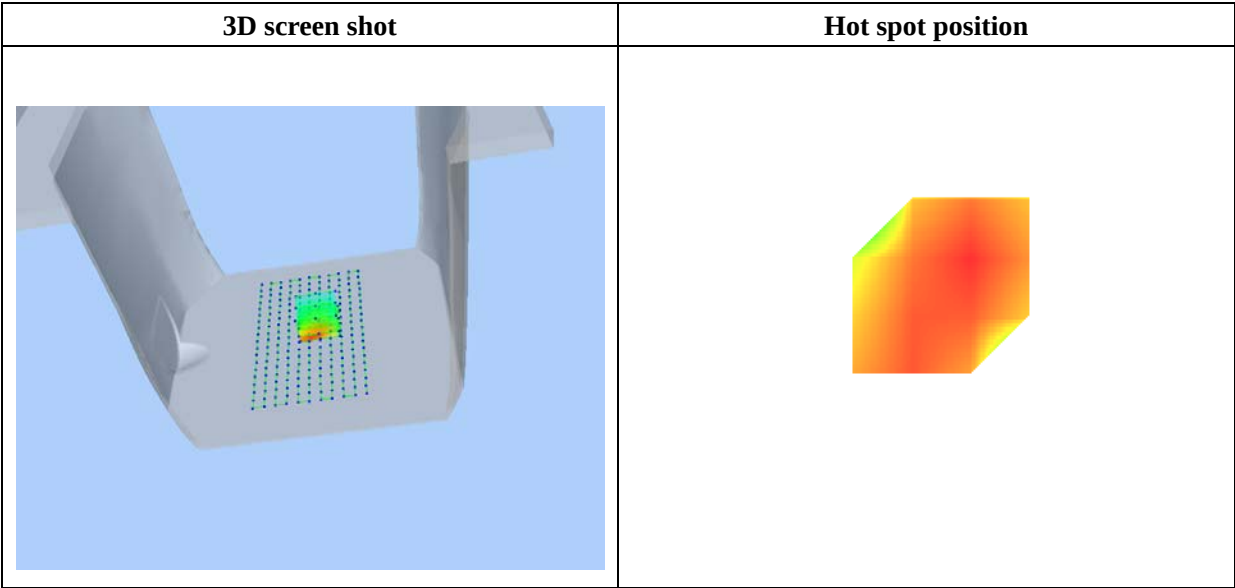
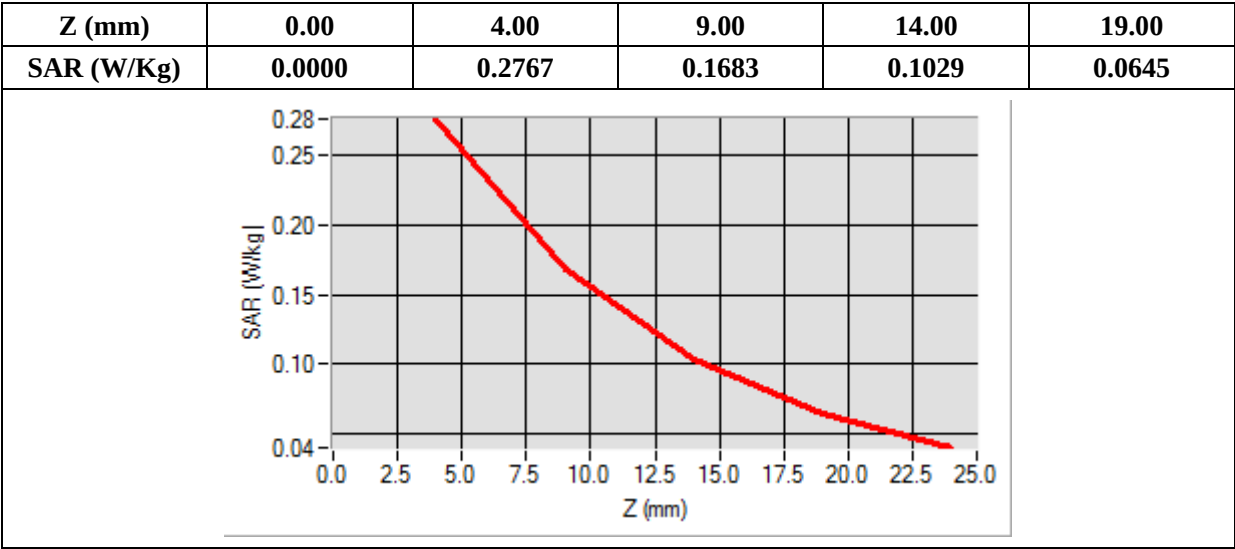
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.490000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=8.00, Y=8.00

SAR 10g (W/Kg)	0.143744
SAR 1g (W/Kg)	0.255567



MEASUREMENT 41

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

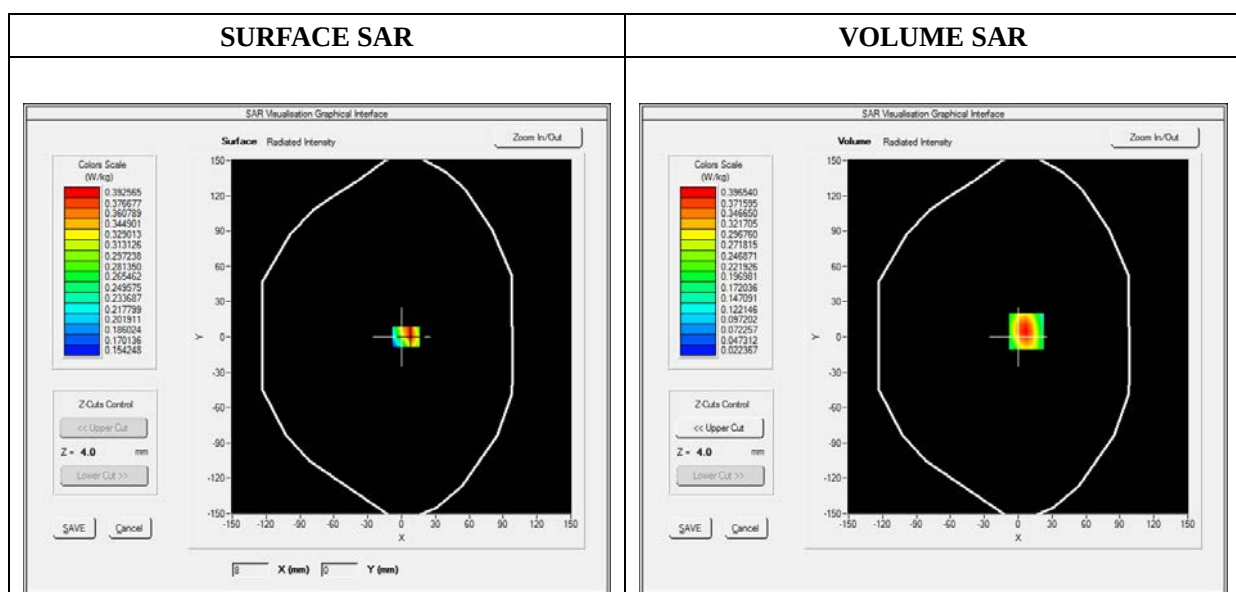
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

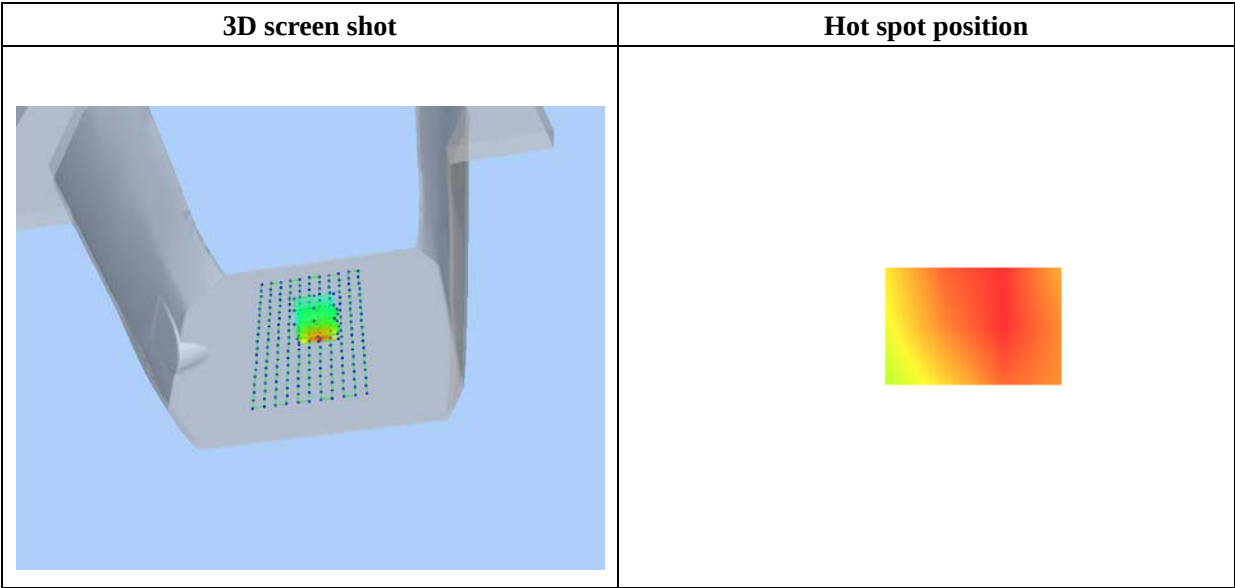
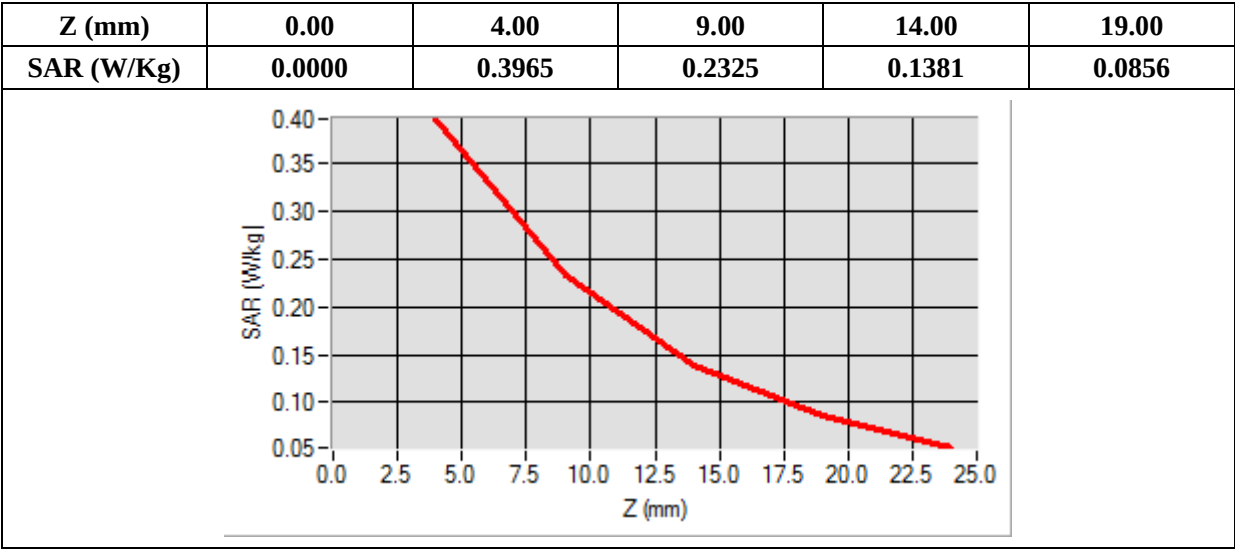
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.295490
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=5.00

SAR 10g (W/Kg)	0.206119
SAR 1g (W/Kg)	0.365875



MEASUREMENT 42

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

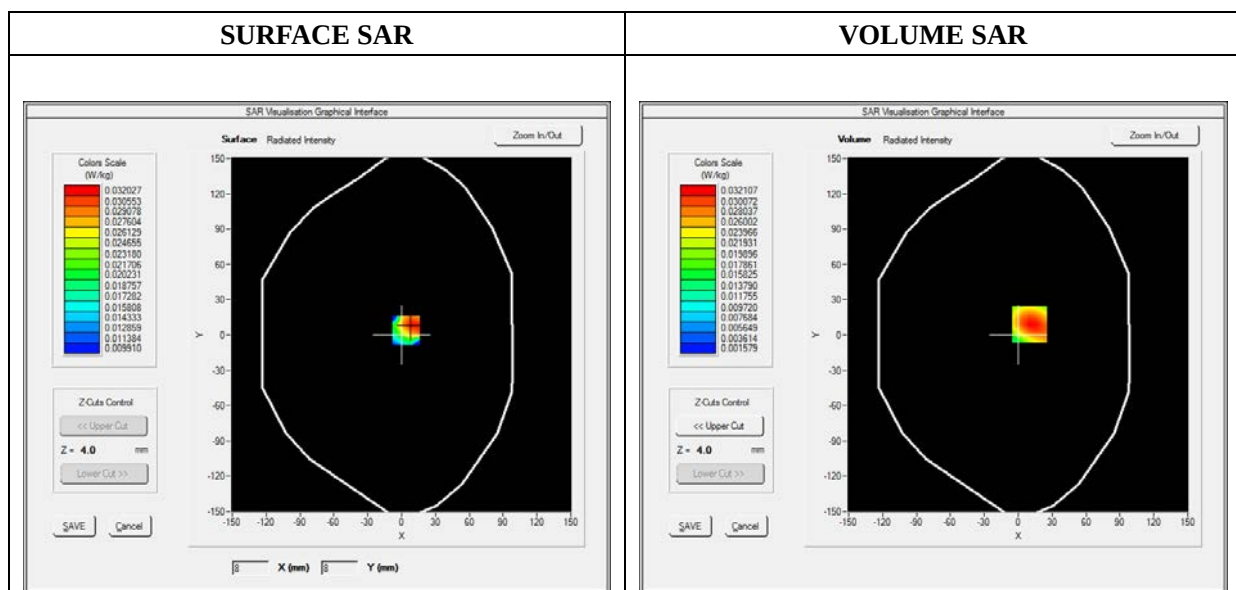
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

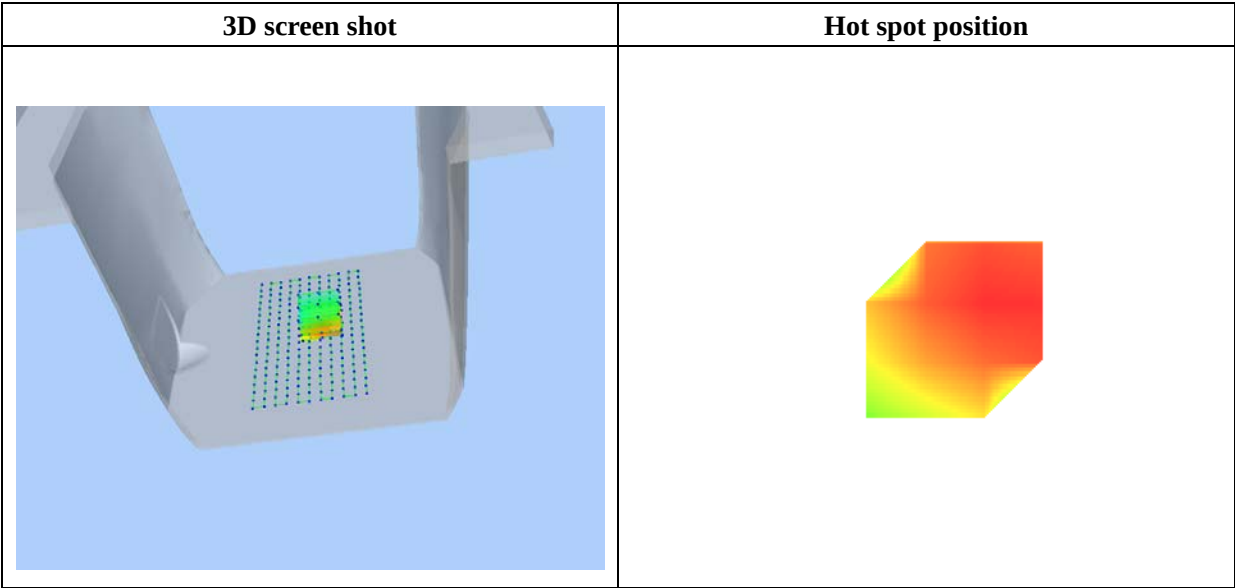
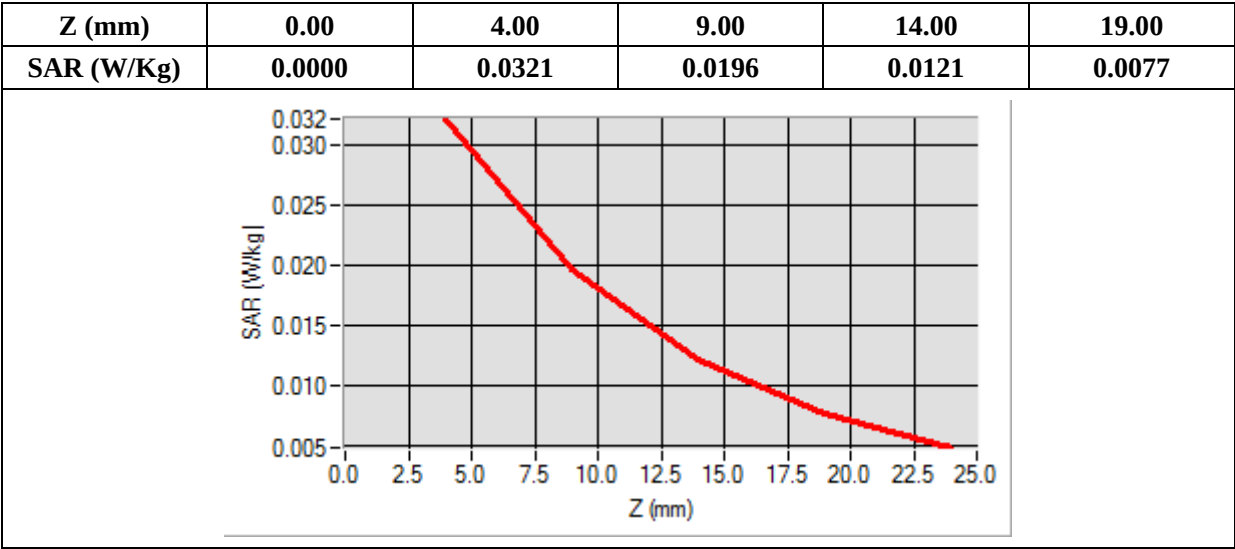
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.365900
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=10.00, Y=9.00

SAR 10g (W/Kg)	0.018381
SAR 1g (W/Kg)	0.030355



MEASUREMENT 43

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

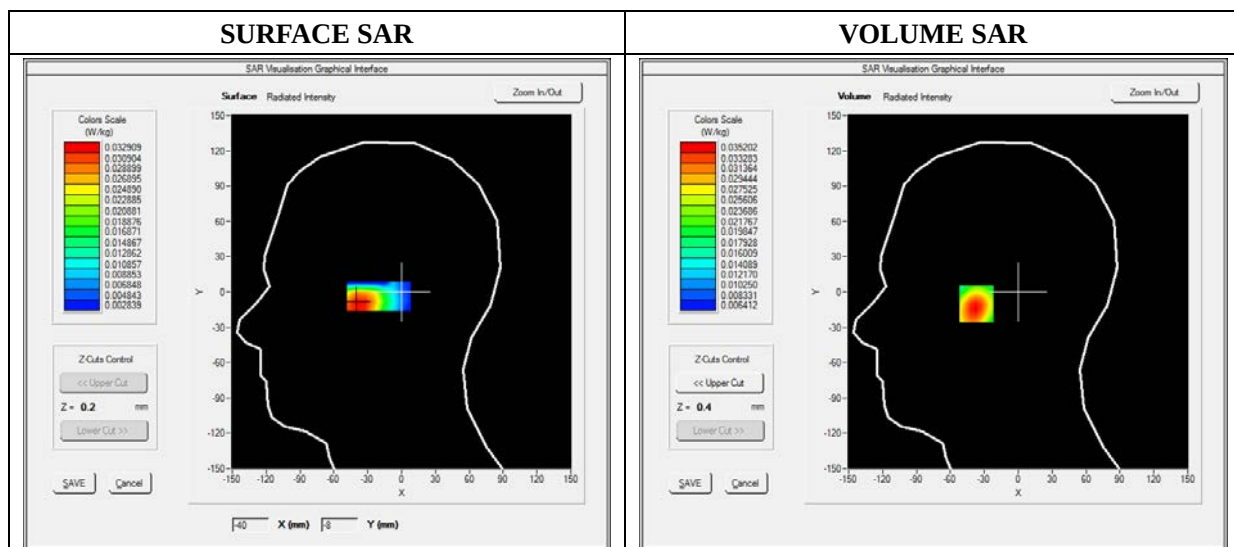
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

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

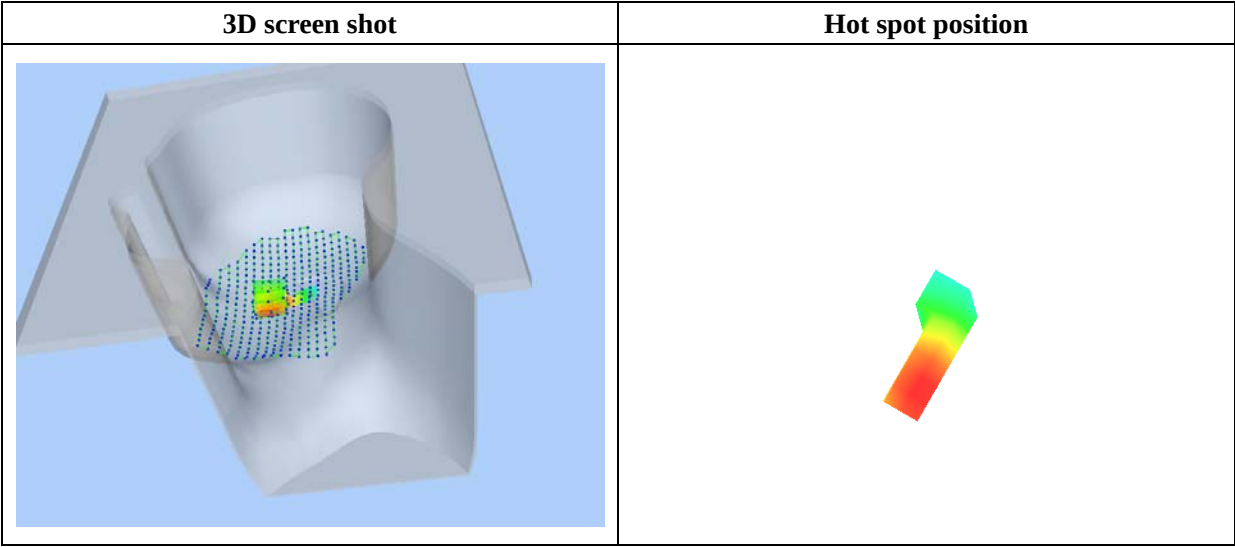
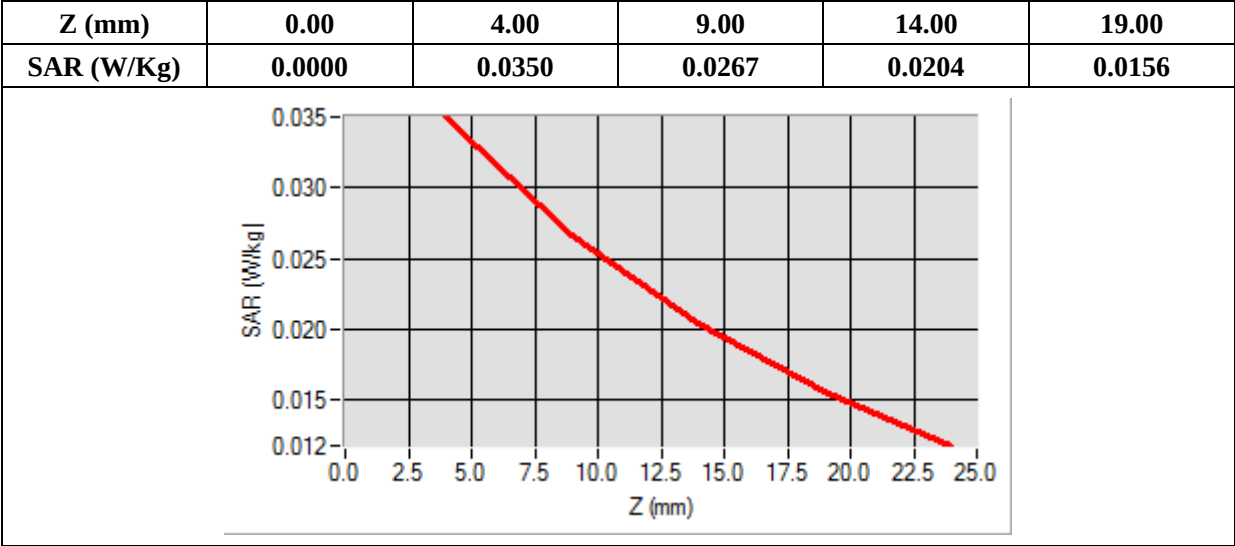
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	38.611212
Conductivity (S/m)	1.763146
Power Variation (%)	1.142390
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-37.00, Y=-10.00

SAR 10g (W/Kg)	0.023521
SAR 1g (W/Kg)	0.033561



MEASUREMENT 44

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

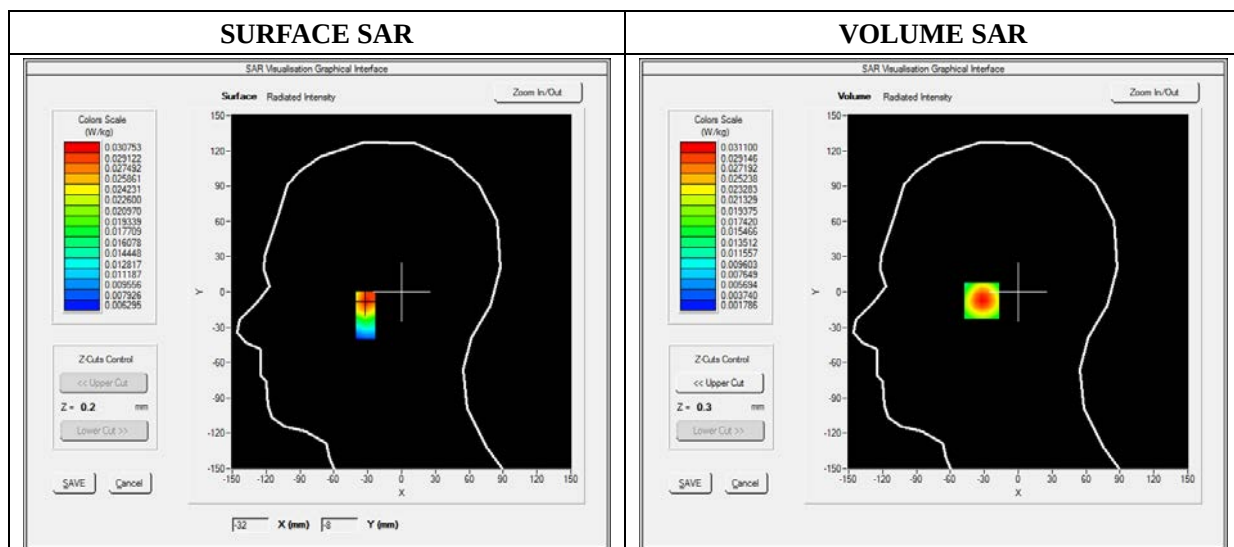
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

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

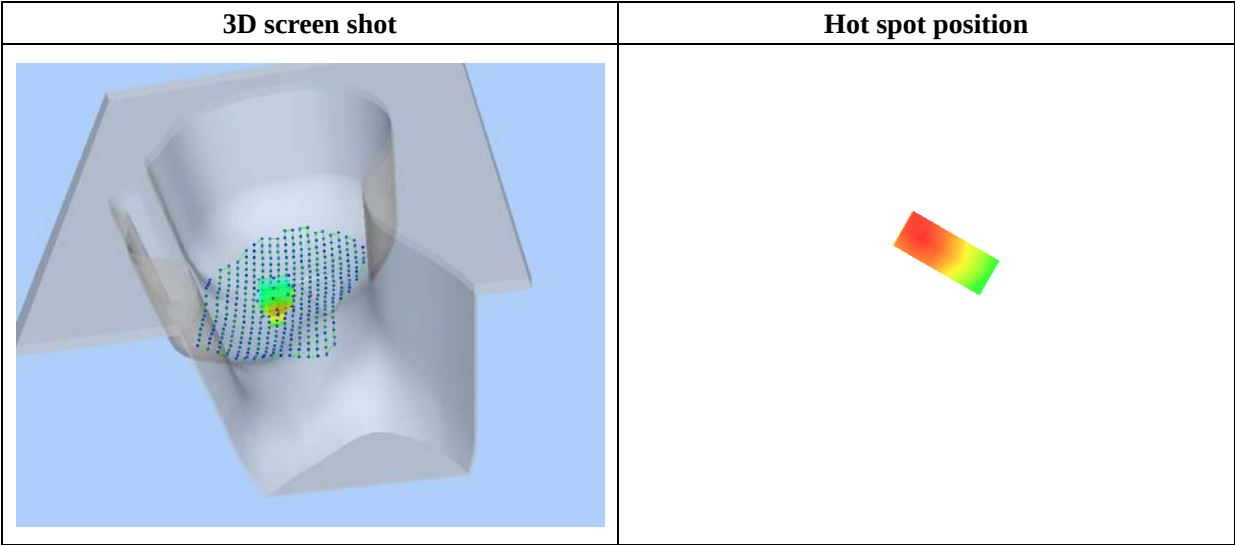
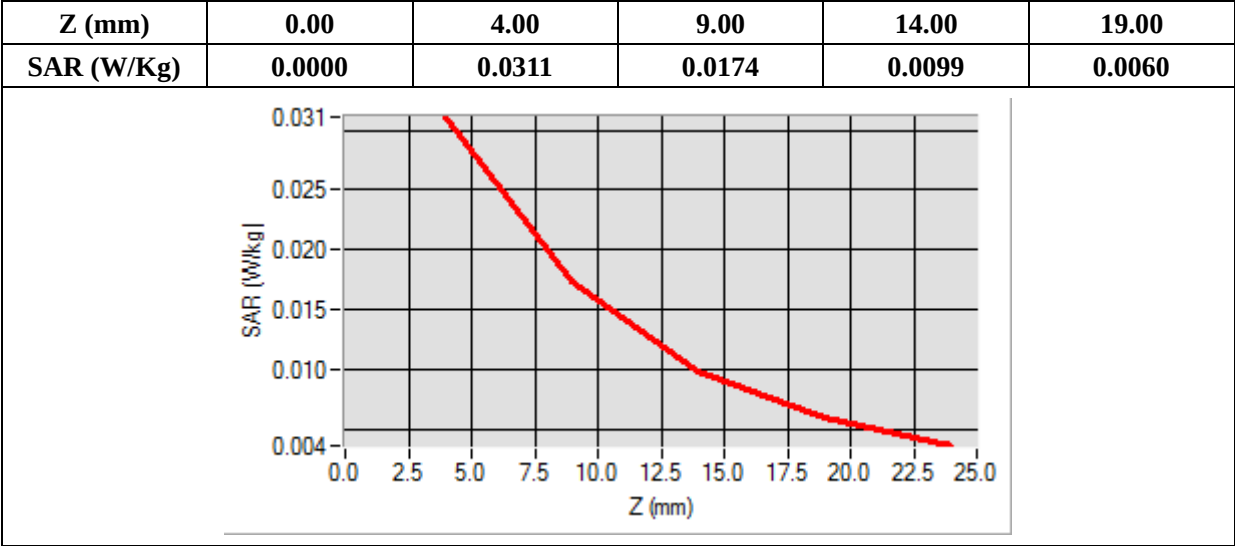
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	38.611212
Conductivity (S/m)	1.763146
Power Variation (%)	1.167000
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-31.00, Y=-7.00

SAR 10g (W/Kg)	0.016004
SAR 1g (W/Kg)	0.028947



MEASUREMENT 45

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

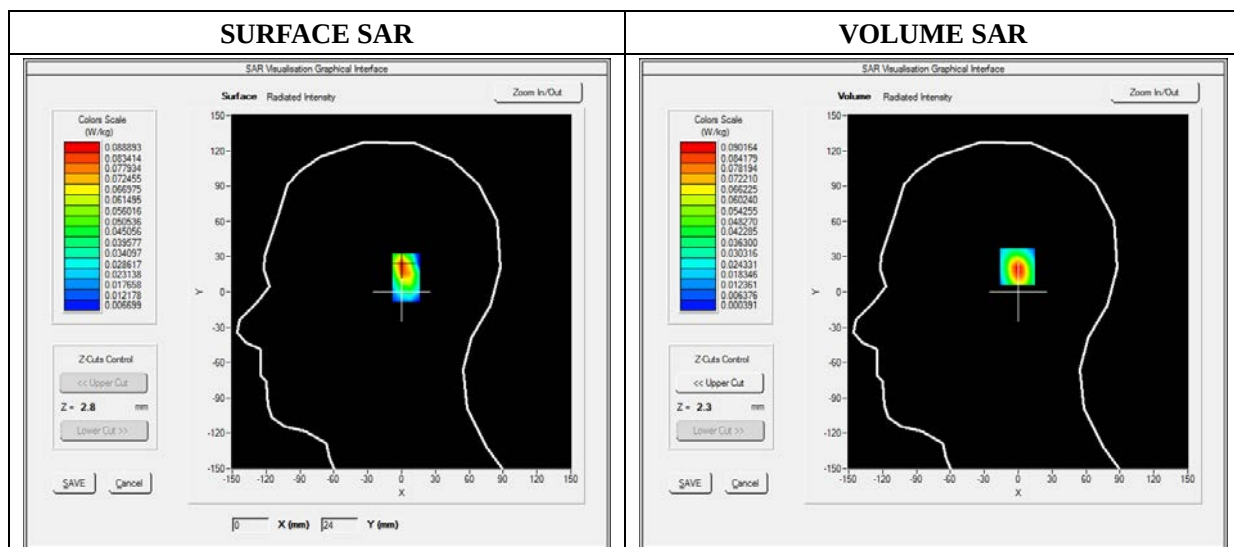
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

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

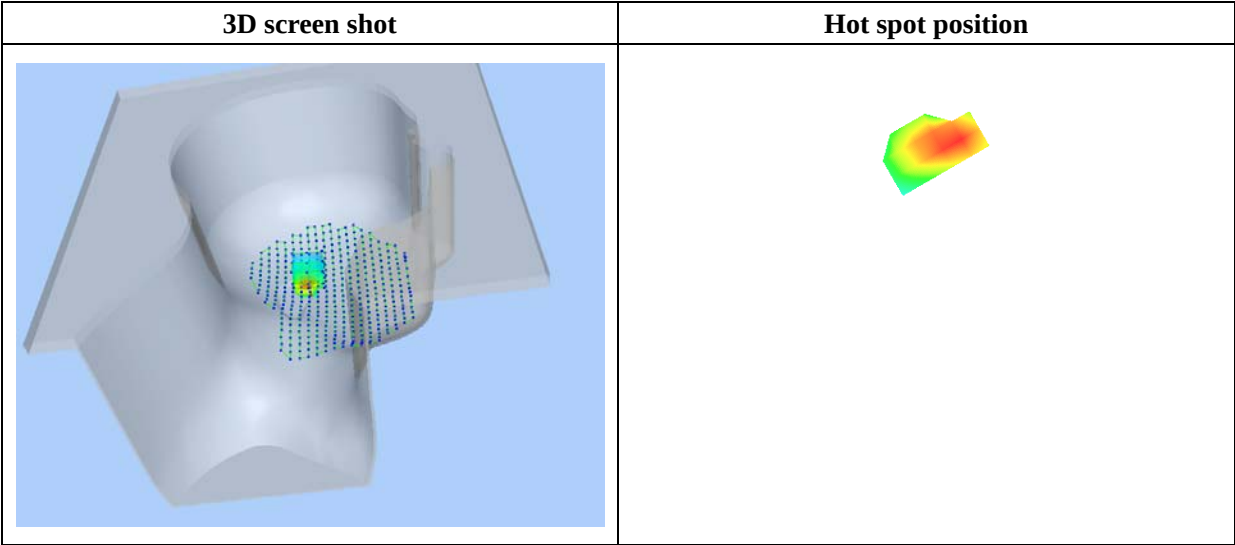
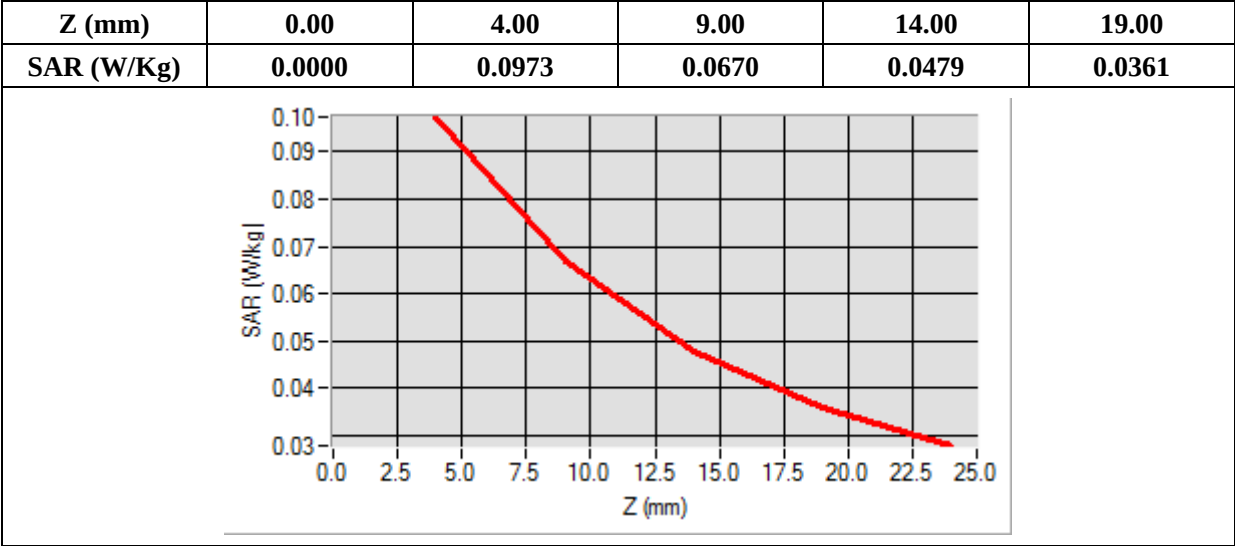
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	38.611212
Conductivity (S/m)	1.763146
Power Variation (%)	0.961800
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=1.00, Y=22.00

SAR 10g (W/Kg)	0.060204
SAR 1g (W/Kg)	0.073029



MEASUREMENT 46

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

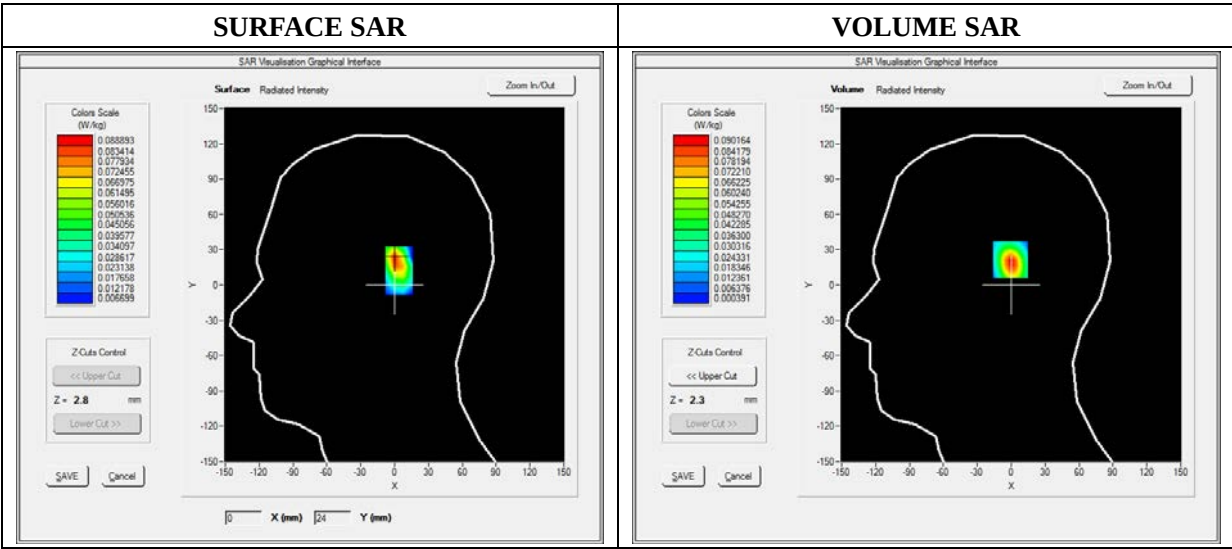
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

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)

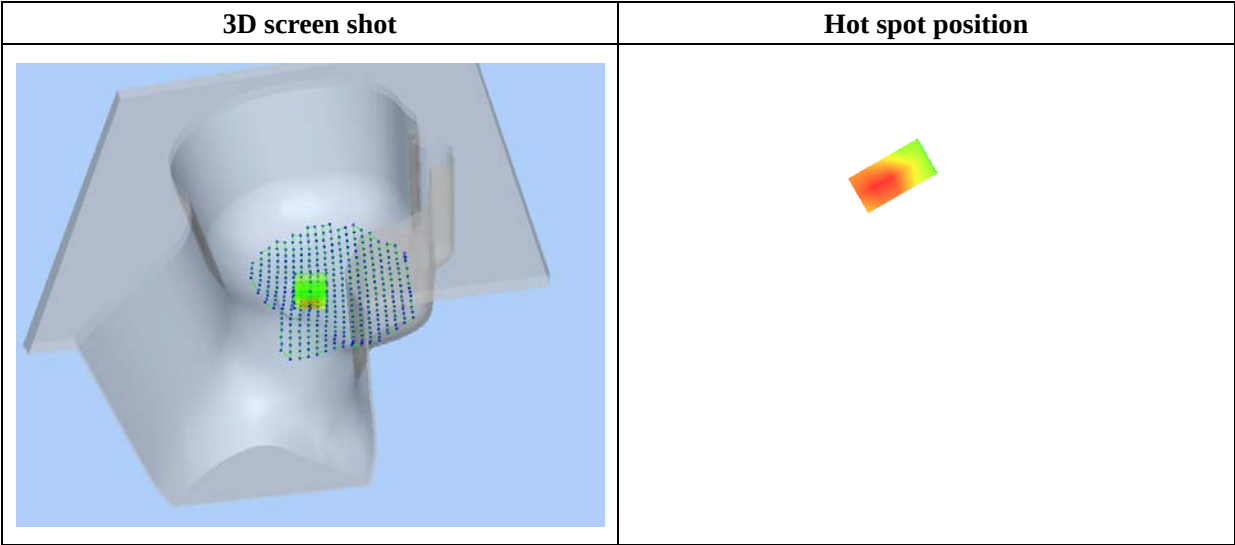
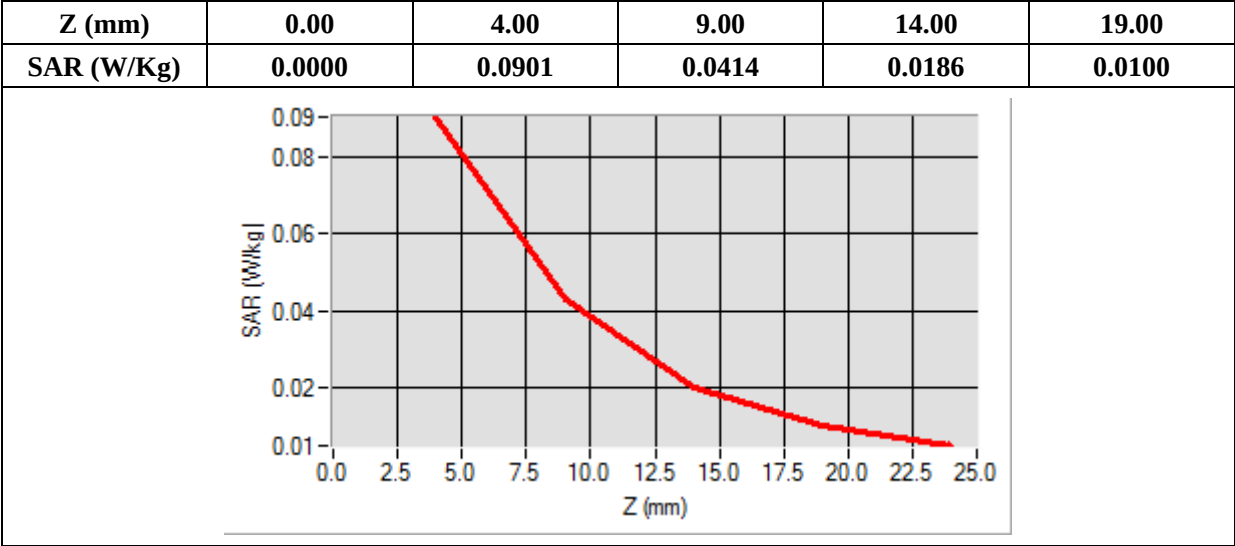
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	38.611212
Conductivity (S/m)	1.763146
Power Variation (%)	1.130459
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=1.00, Y=22.00

SAR 10g (W/Kg)	0.031254
SAR 1g (W/Kg)	0.072710



MEASUREMENT 47

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

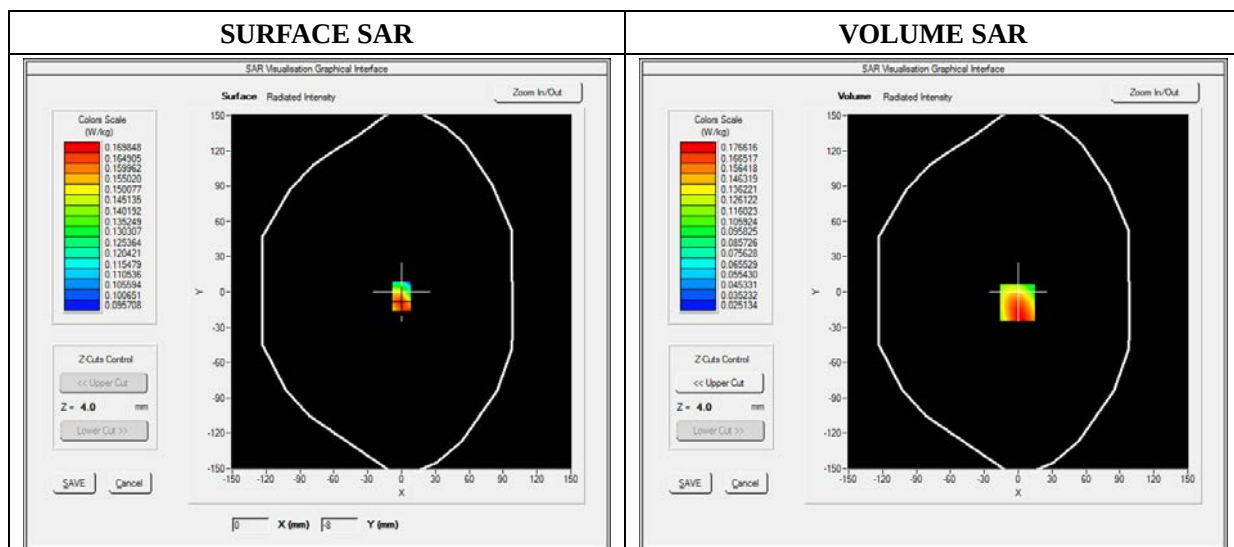
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

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)

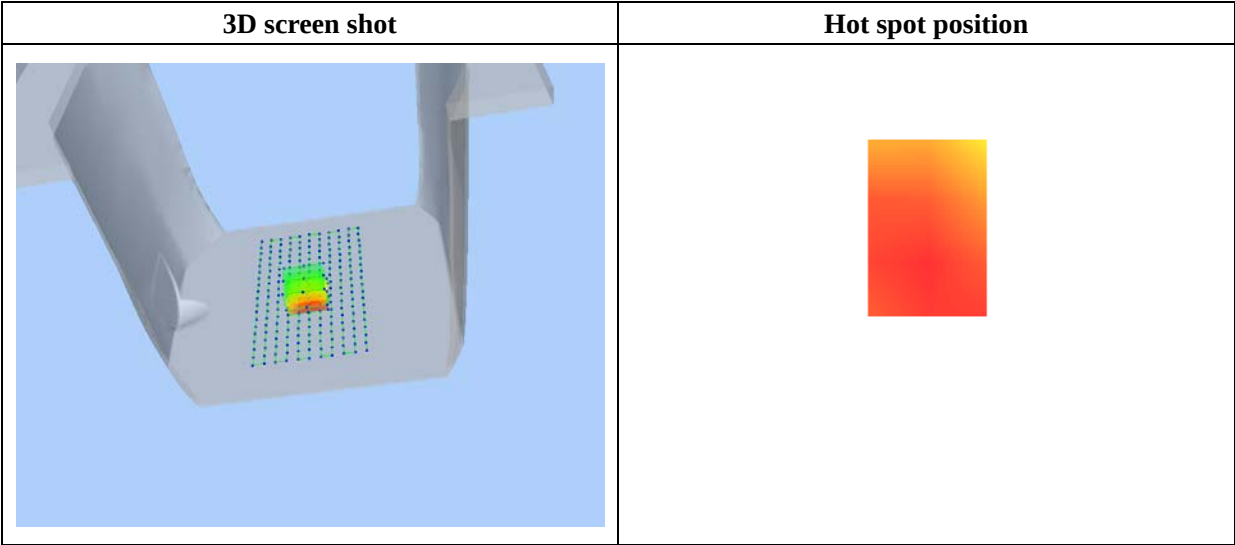
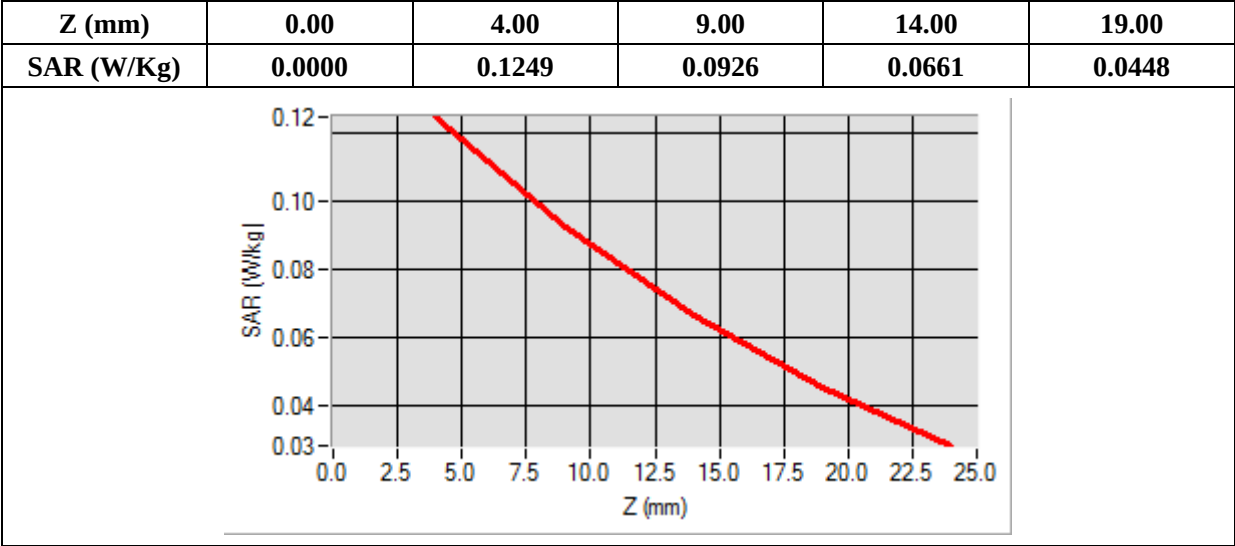
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	52.324633
Conductivity (S/m)	2.002385
Power Variation (%)	0.525800
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-1.00, Y=-9.00

SAR 10g (W/Kg)	0.055752
SAR 1g (W/Kg)	0.080556



MEASUREMENT 48

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

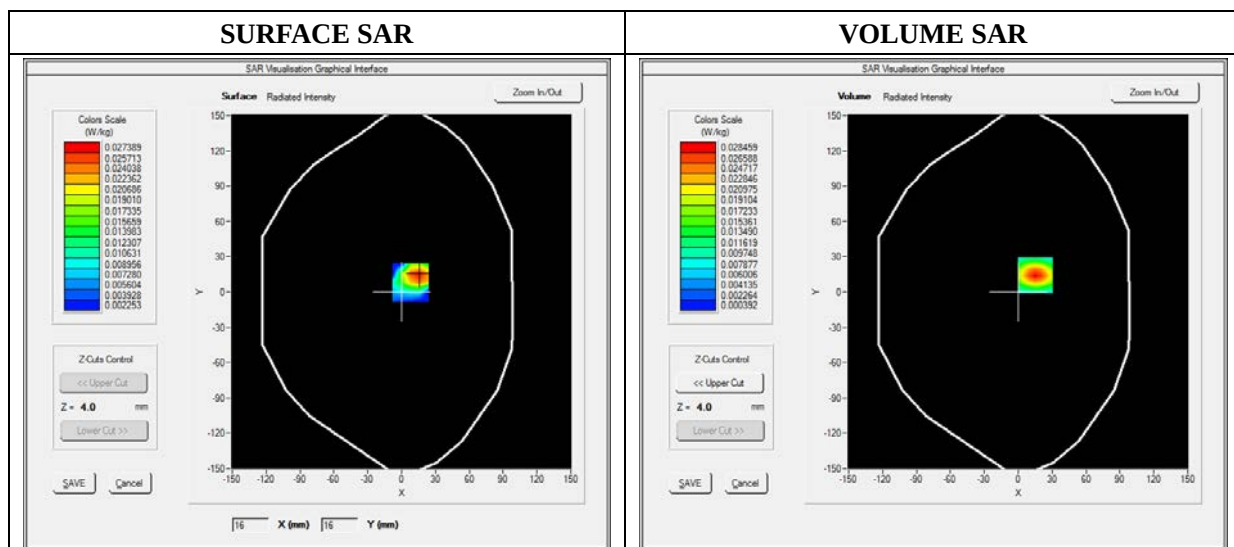
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

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

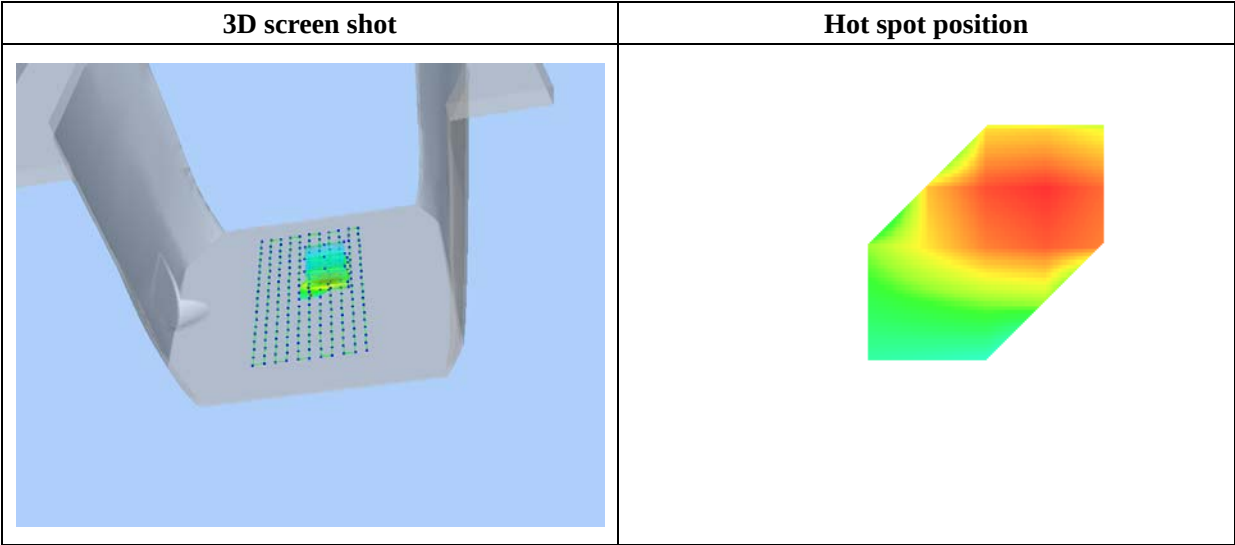
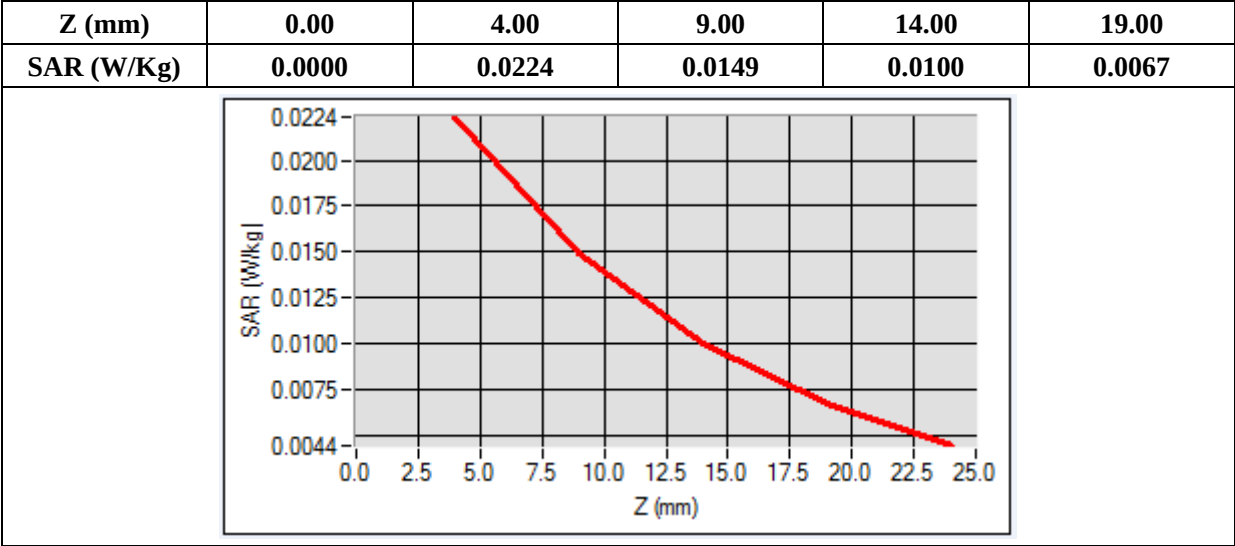
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	52.324633
Conductivity (S/m)	2.002385
Power Variation (%)	0.250890
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=15.00, Y=14.00

SAR 10g (W/Kg)	0.013582
SAR 1g (W/Kg)	0.021280



MEASUREMENT 49

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

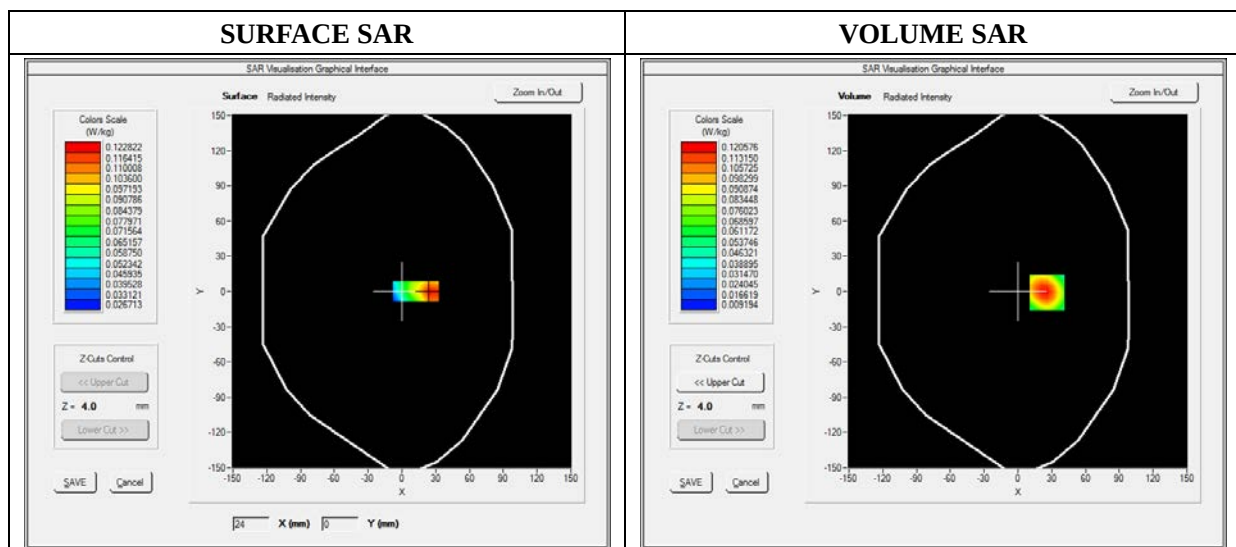
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

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

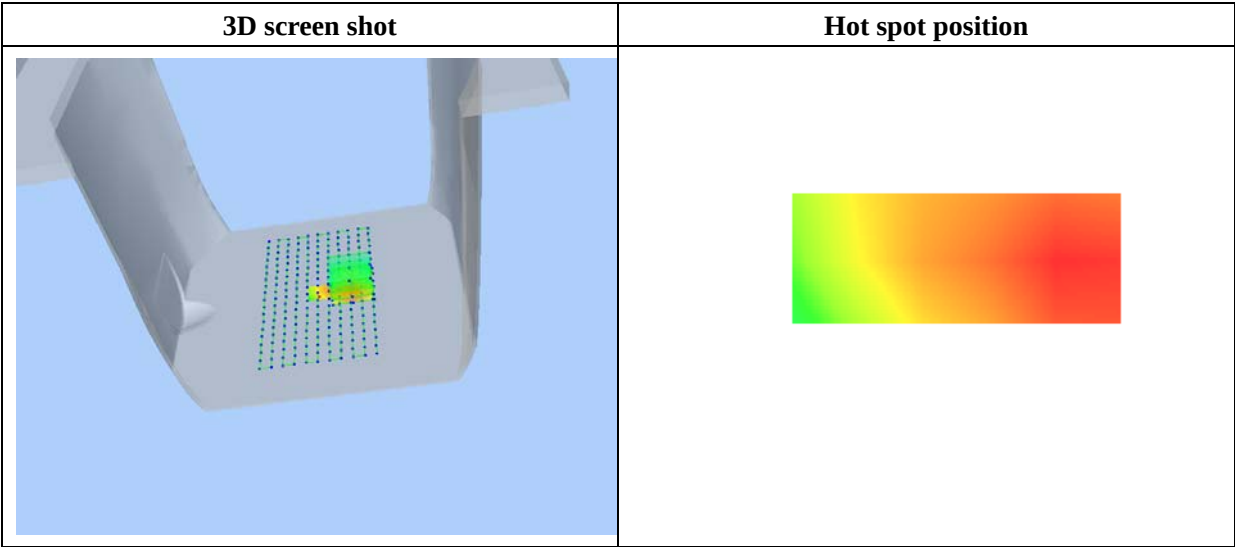
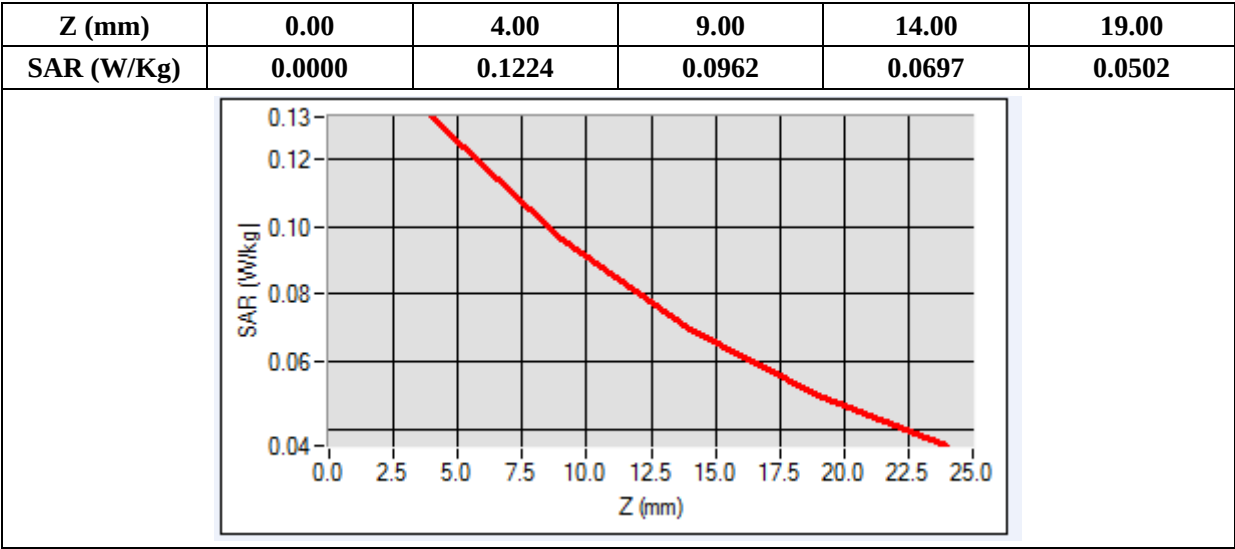
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	52.324633
Conductivity (S/m)	2.002385
Power Variation (%)	0.457840
Ambient Temperature	21.1
Liquid Temperature	21.2



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

SAR 10g (W/Kg)	0.056982
SAR 1g (W/Kg)	0.071255



MEASUREMENT 50

Type: Phone measurement (Complete)

Date of measurement: 07/13/2015

Measurement duration: 12 minutes 3 seconds

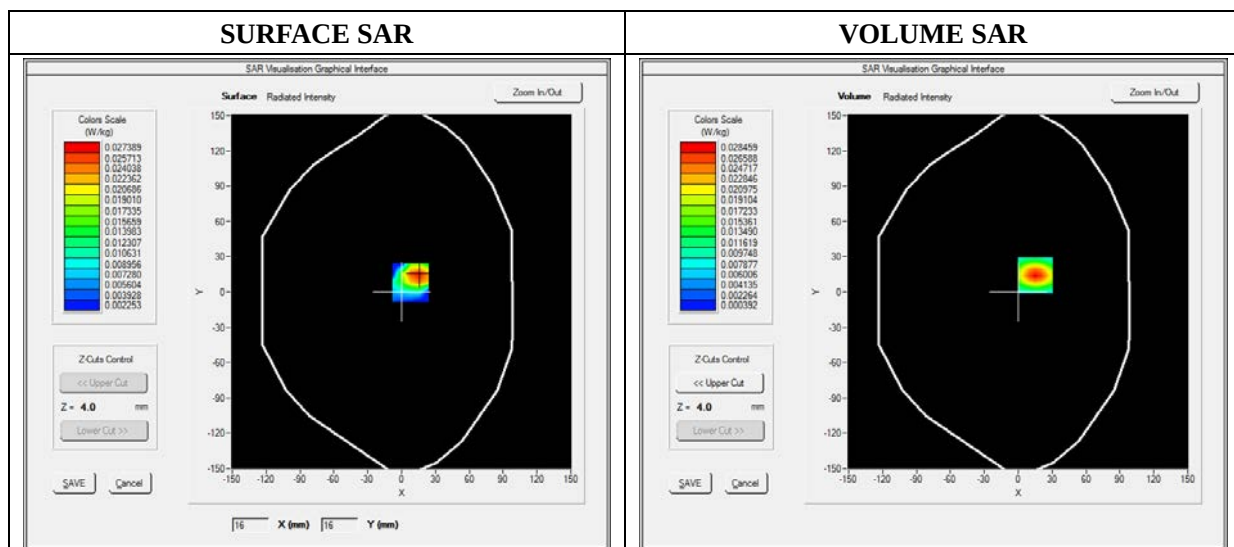
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

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

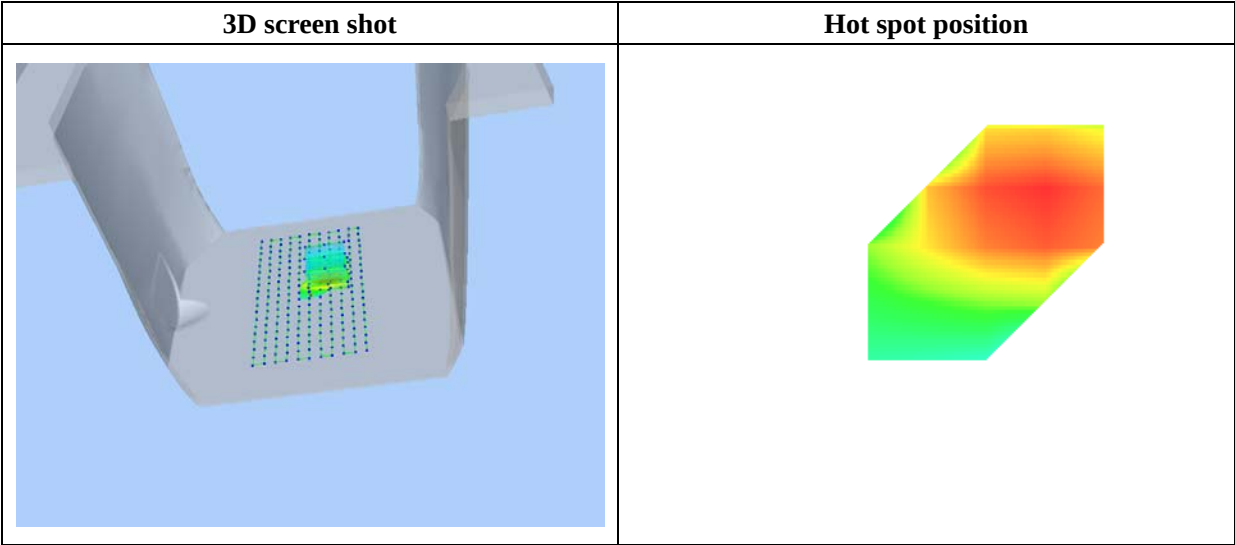
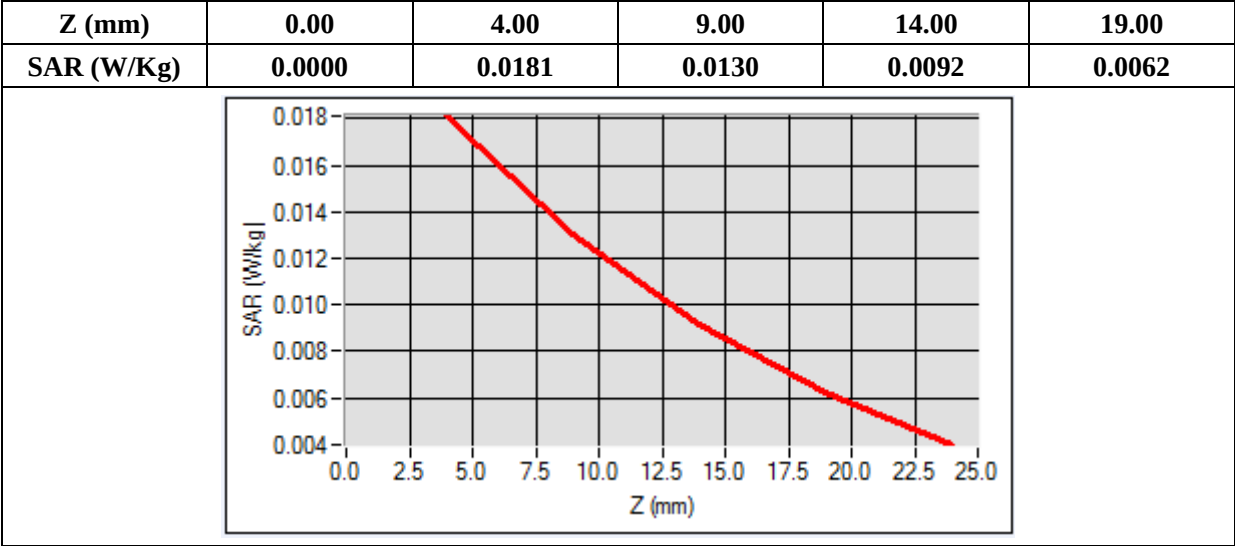
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	52.324633
Conductivity (S/m)	2.002385
Power Variation (%)	0.446890
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=15.00, Y=14.00

SAR 10g (W/Kg)	0.011245
SAR 1g (W/Kg)	0.017106



Annex C. EUT Photos

EUT View Front



EUT View Back



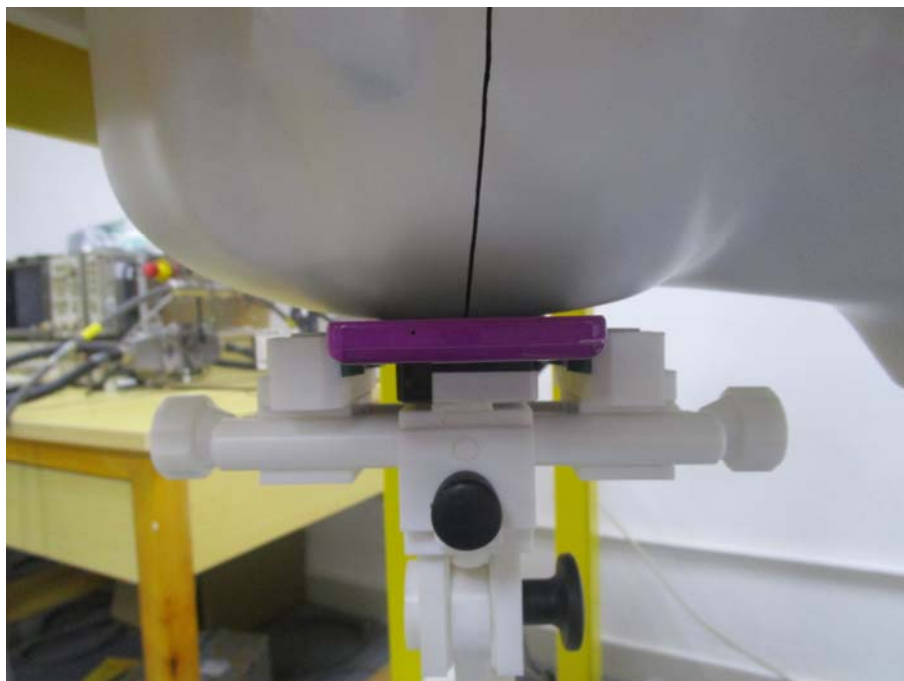
Antenna View



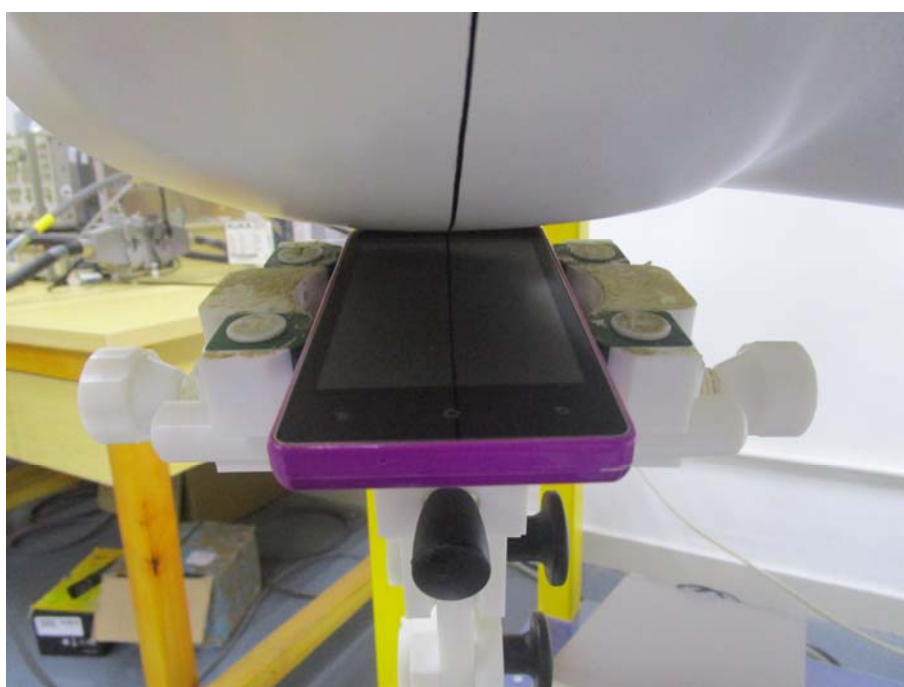
Annex D. Test Setup Photos

Head Exposure Conditions

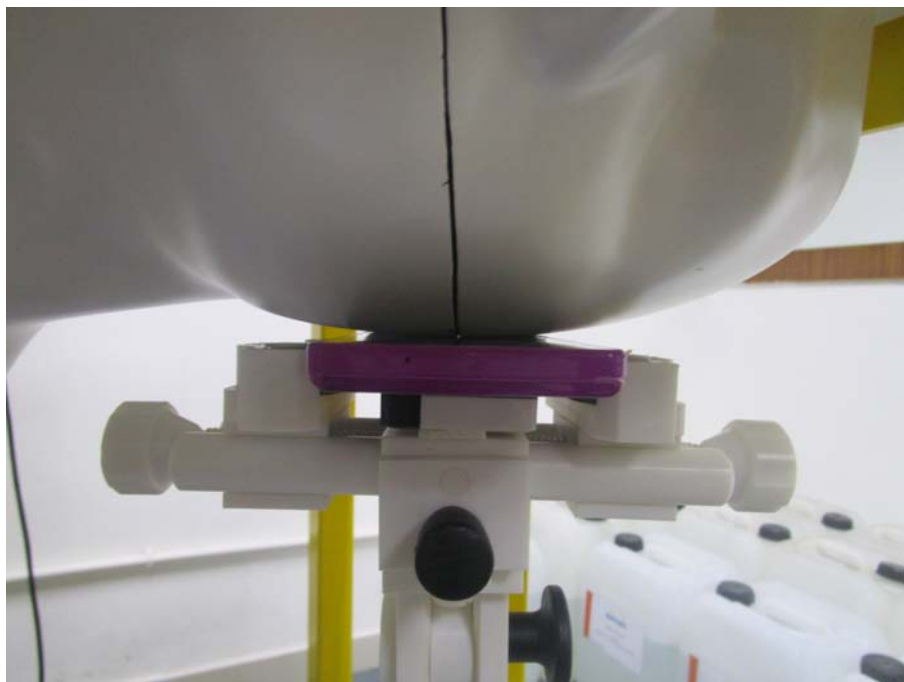
Cheek



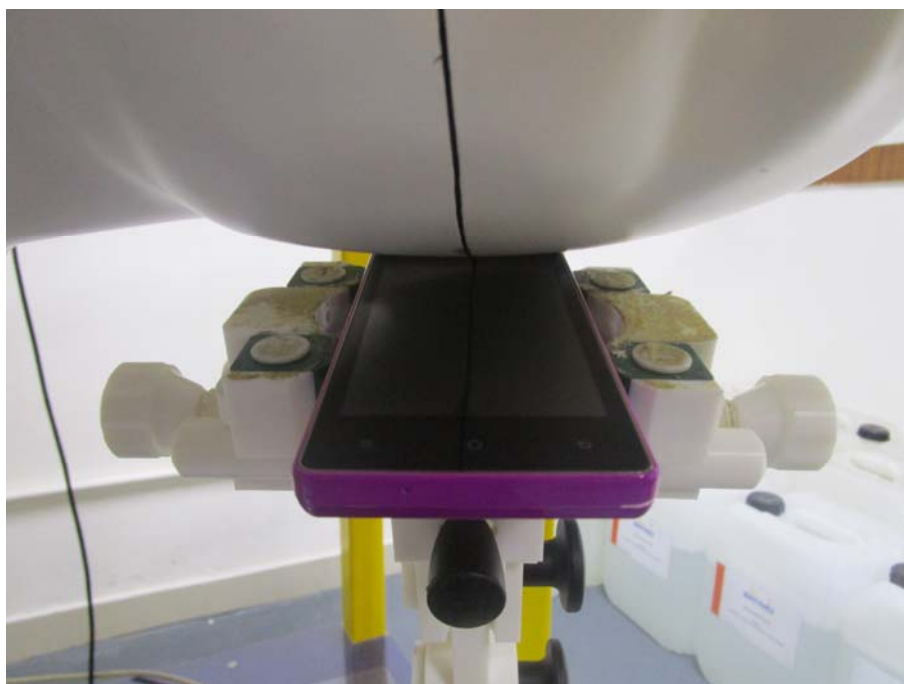
Tilt

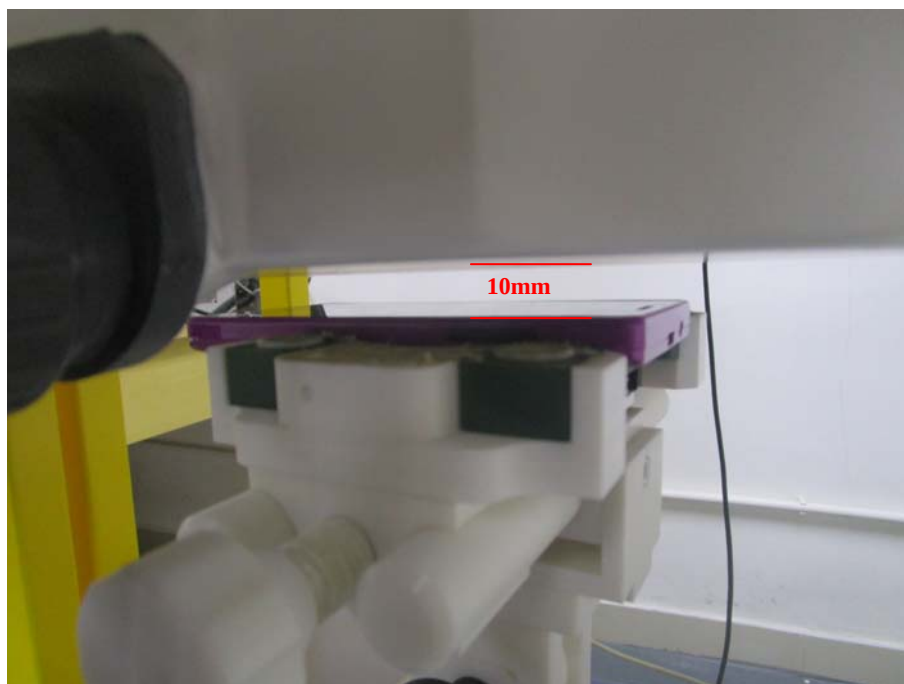
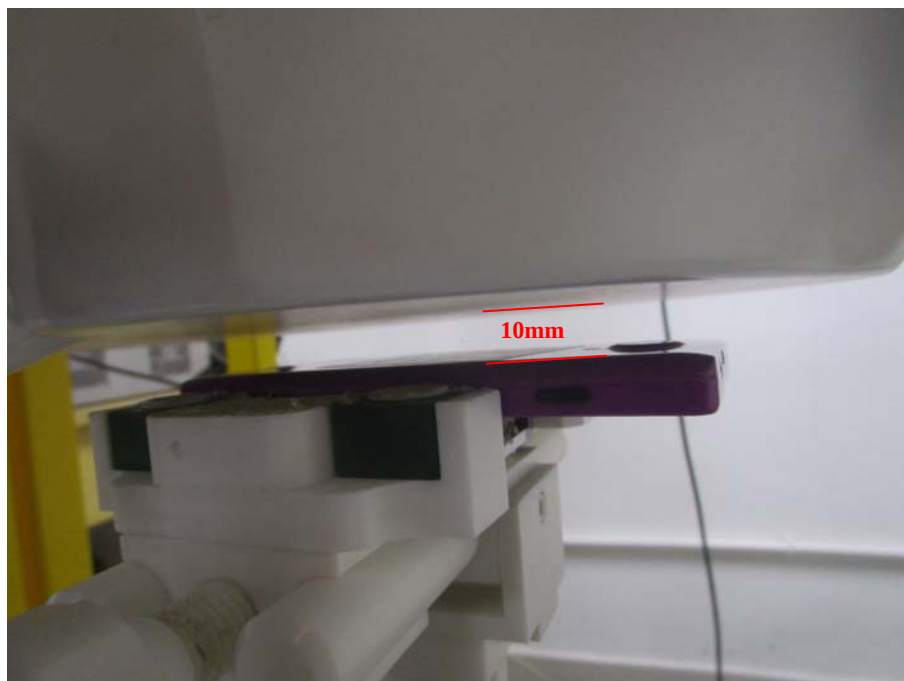


Cheek



Tilt



Body-worn & Hotspot mode Exposure Conditions**Front Side****Back Side**

Hotspot Exposure Conditions

Right side



Left side



Bottom side**Top side**

Annex E. Calibration Certificate

Please refer to the Exhibit for the Calibration Certificate

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