

# FCC SAR

## Measurement and Test Report

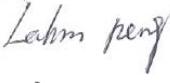
For

Shenzhen Ruifenghuizhi Technology Co., Ltd.

Room 607B, East Block, NanFang Building, Futian District, Shenzhen,

China.

**FCC ID: 2ABEYRF-V9**

FCC Rules:	FCC 47 CFR Part 2 (2.1093) ANSI/IEEE C95.1-1992 IEEE 1528-2003 KDB 865664 D01 v01r03 <u>KDB 865664 D02 v01r01</u>
Product Description:	<u>Real time tracker &amp; alarm</u>
Tested Model:	<u>RF-V9</u>
Report No.:	<u>STR14048358H</u>
Max. SAR Values:	<u>Body: 1.3419 W/kg(1g)</u>
Tested Date:	<u>2014-05-08 to 2014-05-10</u>
Issued Date:	<u>2014-05-14</u>
Tested By:	<u>Silin Chen / Engineer</u> 
Reviewed By:	<u>Lahm Peng / EMC Manager</u> 
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## TABLE OF CONTENTS

<b>1. General Information .....</b>	<b>3</b>
1.1 Product Description for Equipment Under Test (EUT).....	3
1.2 Test Standards .....	4
1.3 Test Methodology .....	4
1.4 Test Facility .....	5
<b>2. Summary of Test Results .....</b>	<b>6</b>
<b>3. Specific Absorption Rate (SAR).....</b>	<b>7</b>
3.1 Introduction.....	7
3.2 SAR Definition .....	7
<b>4. SAR Measurement System.....</b>	<b>8</b>
4.1 The Measurement System .....	8
4.2 Probe.....	8
4.3 Probe Calibration Process .....	10
4.4 Phantom .....	11
4.5 Device Holder .....	11
4.6 Test Equipment List.....	12
<b>5. Tissue Simulating Liquids.....</b>	<b>13</b>
5.1 Composition of Tissue Simulating Liquid.....	13
5.2 Tissue Dielectric Parameters for Head and Body Phantoms.....	14
5.3 Tissue Calibration Result.....	15
<b>6. SAR Measurement Evaluation .....</b>	<b>16</b>
6.1 Purpose of System Performance Check.....	16
6.2 System Setup .....	16
6.3 Validation Results.....	17
<b>7. EUT Testing Position .....</b>	<b>18</b>
7.1 Body Worn Position .....	18
7.5 EUT Antenna Position .....	18
7.6 EUT Testing Position.....	19
<b>8. SAR Measurement Procedures.....</b>	<b>20</b>
8.1 Measurement Procedures .....	20
8.2 Spatial Peak SAR Evaluation .....	20
8.3 Area & Zoom Scan Procedures .....	21
8.4 Volume Scan Procedures .....	21
8.5 SAR Averaged Methods .....	21
8.6 Power Drift Monitoring .....	21
<b>9. SAR Test Result .....</b>	<b>22</b>
9.1 Conducted RF Output Power .....	22
9.2 Test Results for Standalone SAR Test.....	23
<b>10. Measurement Uncertainty .....</b>	<b>24</b>
10.1 Uncertainty for EUT SAR Test.....	24
10.2 Uncertainty for System Performance Check.....	25
<b>Annex A. Plots of System Performance Check .....</b>	<b>27</b>
<b>Annex B. Plots of SAR Measurement .....</b>	<b>31</b>
<b>Annex C. EUT Photos .....</b>	<b>81</b>
<b>Annex D. Test Setup Photos .....</b>	<b>83</b>
<b>Annex E. Calibration Certificate.....</b>	<b>86</b>

## 1. General Information

### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant: Shenzhen RuiFengHuiZhi Technology Co., Ltd.  
Address of applicant: Room 607B, East Block, NanFang Building, Futian District, Shenzhen, China.

Manufacturer: Shenzhen RuiFengHuiZhi Technology Co., Ltd.  
Address of manufacturer: Room 607B, East Block, NanFang Building, Futian District, Shenzhen, China.

General Description of EUT	
Product Name:	Real time tracker & alarm
Brand Name:	ReachFar
Model No.:	RF-V9
Adding Mode:	RF-V6, RF-V7, RF-V11, RF-V10, RF-V12
Software Version:	f009_v350_GD_140118
Hardware Version:	RFGSM-F009V50MB
IMEI:	860996000085461
Rated Voltage:	DC 3.7V
Battery:	380mAh
Device Category:	Portable Device
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The other model listed in the report has different appearance only of RF-V9 without circuit and electronic construction changed, declared by the manufacturer.</i>	

<b>Technical Characteristics of EUT</b>	
<b>2G</b>	
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
Max. RF Power(Conducted):	GSM850: 32.02dBm, GSM1900: 29.02dBm
Type of Modulation:	GMSK
Type of Emission:	GSM(GSM850): 256KGXW GPRS(GSM850): 255KG7W GSM(PCS1900): 259KGXW GPRS(PCS1900): 260KG7W
Antenna Type:	Internal Antenna
Antenna Gain:	GSM850: -1.0dBi GSM1900: -2.0dBi
GPRS Class:	Class 12

## 1.2 Test Standards

The following report is prepared on behalf of the Shenzhen Ruifenghuizhi 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 FCC OET Bulletin 65 Supplement C. The public notice KDB 447498 D01 V05 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

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

Frequency Band	Position	SAR <sub>1g</sub> (W/kg)	Scaled SAR <sub>1g</sub> (W/kg)
GSM850	Body (5mm Gap)	0.3950	0.4061
GSM1900	Body (5mm Gap)	1.2815	1.3419

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)

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#### 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 ( $\rho$ ). The equation description is as below:

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

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

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

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

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

electrical field in the tissue by

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

Where:  $\sigma$  is the conductivity of the tissue,  $\rho$  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

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### 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

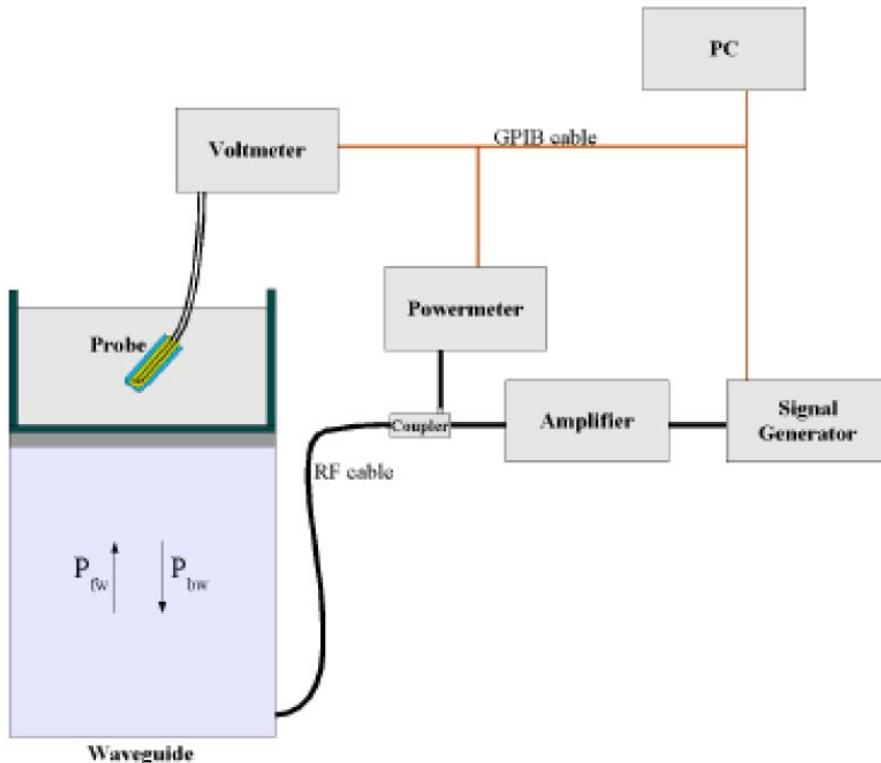
For the measurements the Specific Dosimetric E-Field Probe SSE5 SN 09/13 EP168 with following specifications is used

- 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 annexe technique using reference guide at the five frequencies.



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

Where :

Pfw = Forward Power

Pbw = Backward Power

a and b = Waveguide dimensions

I = Skin depth

Keithley configuration:

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

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

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

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/cm<sup>2</sup>) 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/cm<sup>2</sup>.

#### 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:

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

$\Delta t$  = exposure time (30 seconds),

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

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

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

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

Where:

$\sigma$  = simulated tissue conductivity,

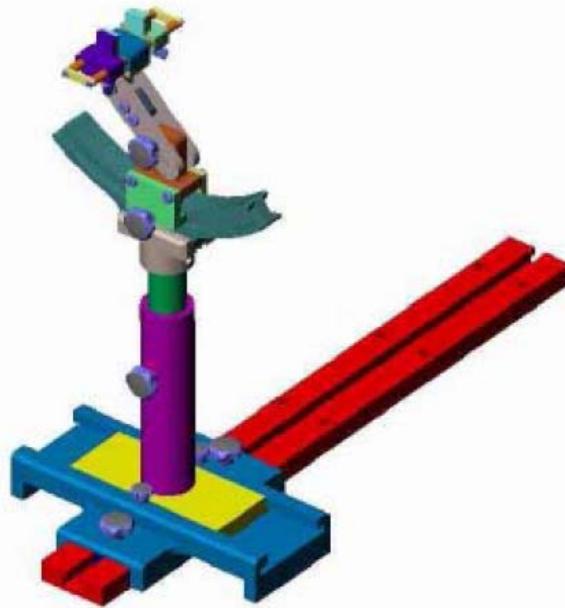
$\rho$  = Tissue density (1.25 g/cm<sup>3</sup> for brain tissue)

#### 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	2014-03-21	2015-03-20
835MHz Dipole	SATIMO	SID835	SN 47/12 DIP 0G835-204	2013-11-26	2014-11-25
1900MHz Dipole	SATIMO	SID1900	SN 47/12 DIP 1G900-207	2013-11-26	2014-11-25
2450MHz Dipole	SATIMO	SID2450	SN 47/12 DIP 2G450-209	2013-11-26	2014-11-25
Dielectric Probe	SATIMO	SCLMP	SN 47/12 OCPG49	2013-11-26	2014-11-25
SAM Phantom	SATIMO	SAM	SN/ 47/12 SAM95	N/A	N/A
Multi Meter	Keithley	Keithley 2000	4006367	2014-05-07	2015-05-06
Signal Generator	Rohde & Schwarz	SMR20	100047	2014-05-07	2015-05-06
Universal Tester	Rohde & Schwarz	CMU200	112012	2014-05-07	2015-05-06
Network Analyzer	HP	8753C	2901A00831	2014-05-07	2015-05-06

## 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 Body SAR**

#### The Composition of Tissue Simulating Liquid

Frequency (MHz)	Water (%)	Salt (%)	Triton (%)	HEC (%)	Preventol (%)	DGBE (%)
<b>Body</b>						
835	52.87	1.07	0.00	0.00	46.10	0.00
1900	69.99	0.41	20.66	0.00	0.00	8.93

## 5.2 Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Target Frequency (MHz)	Head		Body	
	Conductivity ( $\sigma$ )	Permittivity ( $\epsilon_r$ )	Conductivity ( $\sigma$ )	Permittivity ( $\epsilon_r$ )
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
<b>835</b>	<b>0.90</b>	<b>41.5</b>	<b>0.97</b>	<b>55.2</b>
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
<b>1800-2000</b>	<b>1.40</b>	<b>40.0</b>	<b>1.52</b>	<b>53.3</b>
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

Body Tissue Simulating Liquid									
Freq. MHz.	Temp. (°C)	Conductivity			Permittivity			Limit (%)	Date
		Reading ( $\sigma$ )	Target ( $\sigma$ )	Delta (%)	Reading ( $\epsilon_r$ )	Target ( $\epsilon_r$ )	Delta (%)		
835	21.2	0.96	0.97	-1.03	55.8	55.2	1.1	±5	2014-05-08
1900	21.3	1.51	1.52	-0.66	51.2	53.3	-3.9	±5	2014-05-08

## 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.

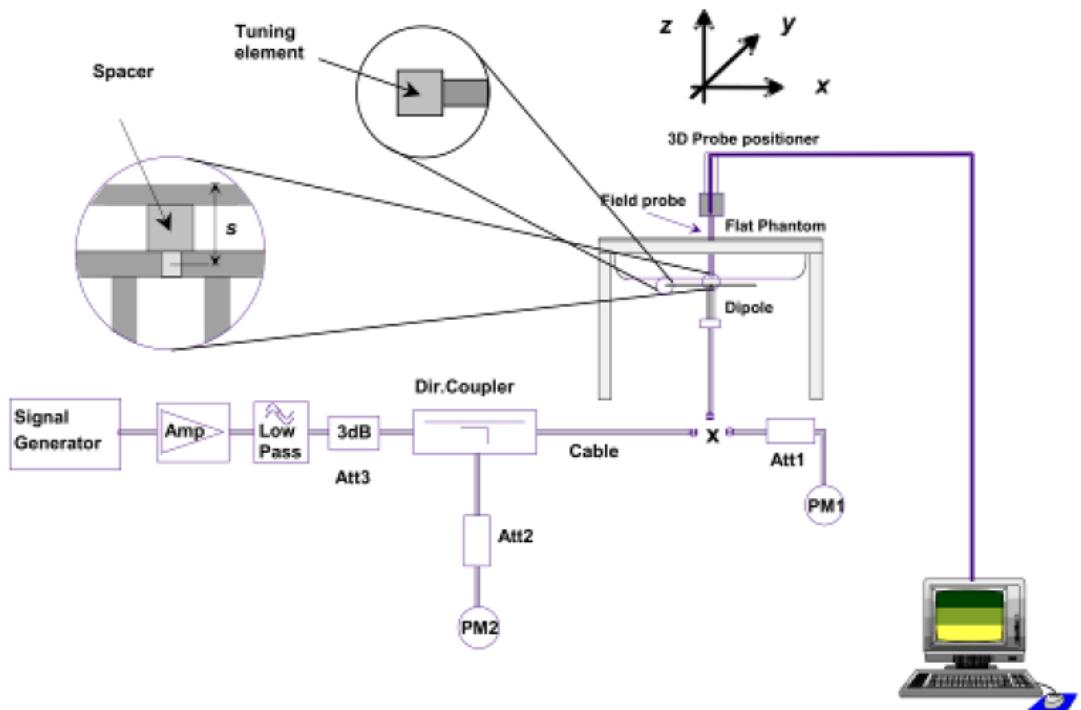


Fig 7.1 System Verification Setup Block Diagram



**Fig 7.2 Setup Photo of Dipole Antenna**

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

### 6.3 Validation Results

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

Frequency	Targeted SAR <sub>1g</sub>	Measured SAR <sub>1g</sub>	Normalized SAR <sub>1g</sub>	Tolerance
MHz	(W/kg)	(W/kg)	(W/kg)	(%)
Body Liquid				
835	10.19	2.41	9.64	-5.40
1900	40.41	9.87	39.48	-2.30

**Table 7.1 Targeted and Measurement SAR**

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

## 7. EUT Testing Position

### 7.1 Body Worn Position

- (a) To position the device parallel to the phantom surface with either keypad up or down.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 5mm.

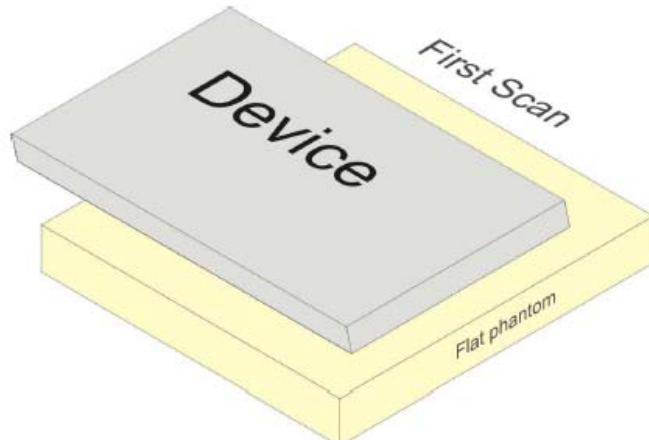


Fig 7.4 Illustration for Body Worn Position

### 7.5 EUT Antenna Position

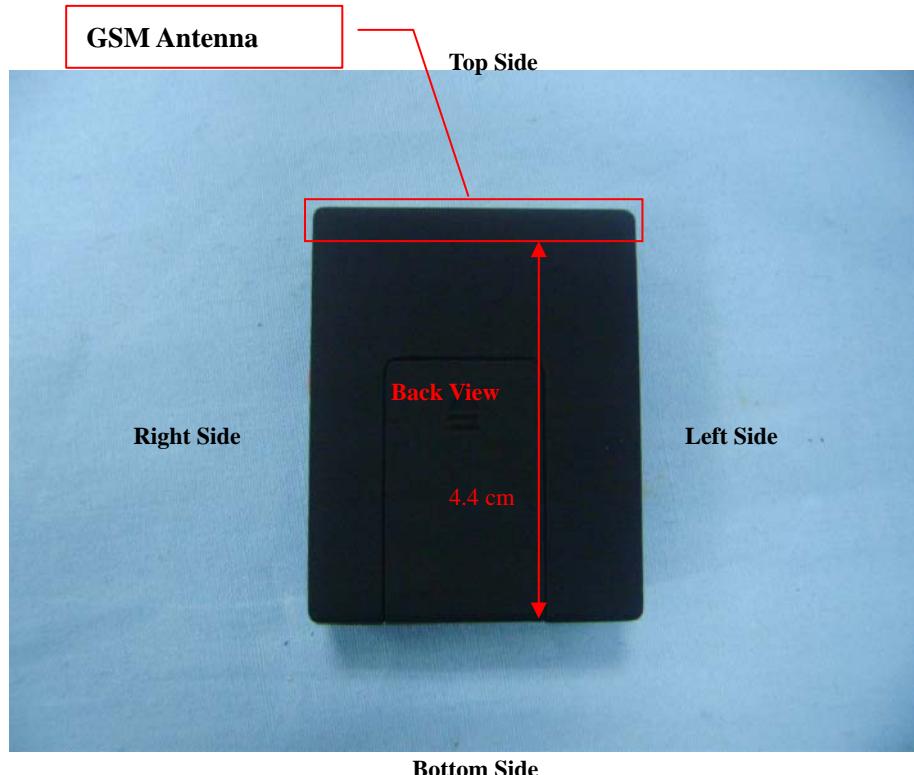


Fig 7.5 Block Diagram for EUT Antenna Position

## 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:

Body SAR tests, Test distance: 5mm						
Antennas	Front	Back	Right Side	Left Side	Top Side	Bottom Side
WWAN	Yes	Yes	Yes	Yes	Yes	No
WLAN	No	No	No	No	No	No

**Remark:**

1. Referring to KDB 447498 D01, when the overall device length and width smaller than 9cm\*5cm, the test separation is 5 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
2. For WWAN antenna, SAR measurements at Bottom/Left side are not required since the distance between WWAN transmitting antenna and surface or edge > 25mm.

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

## 8. SAR Measurement Procedures

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### 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	31.84	32.02	31.64	28.79	28.21	29.02
GPRS (1 slot)	31.77	31.95	31.65	28.74	28.20	29.06
GPRS (2 slots)	30.75	30.90	30.67	28.24	27.44	28.62
GPRS (3 slots)	29.35	29.46	29.12	27.06	26.19	26.98
GPRS (4 slots)	28.28	28.38	28.04	26.30	25.42	26.11

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	22.84	23.02	22.64	19.79	19.21	20.02
GPRS (1 slot)	22.77	22.95	22.65	19.74	19.20	20.06
GPRS (2 slots)	24.75	24.90	24.67	22.24	21.44	22.62
GPRS (3 slots)	25.10	25.21	24.87	22.81	21.94	22.73
GPRS (4 slots)	25.28	25.38	25.04	23.30	22.42	23.11

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

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

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

#### Remark:

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

## 9.2 Test Results for Standalone SAR Test

### Body SAR

GSM850 – Body SAR Test (Gap: 5mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
1	GSM	Front	190	836.4	32.02	32.5	1.12	0.3347	0.3738
2	GSM	Back	190	836.4	32.02	32.5	1.12	0.3116	0.3480
3	GSM	Bottom side	190	836.4	32.02	32.5	1.12	0.2429	0.2713
4	GSM	Left side	190	836.4	32.02	32.5	1.12	0.2126	0.2374
5	GSM	Right side	190	836.4	32.02	32.5	1.12	0.2092	0.2336
6	GPRS_4TX	Front	190	836.4	28.38	28.5	1.03	0.3950	0.4061
7	GPRS_4TX	Back	190	836.4	28.38	28.5	1.03	0.3600	0.3701
8	GPRS_4TX	Bottom side	190	836.4	28.38	28.5	1.03	0.3257	0.3348
9	GPRS_4TX	Left side	190	836.4	28.38	28.5	1.03	0.1490	0.1532
10	GPRS_4TX	Right side	190	836.4	28.38	28.5	1.03	0.1873	0.1925

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

GSM1900 – Body SAR Test (Gap: 5mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
11	GSM	Front	512	1850.2	28.79	29.0	1.05	0.7606	0.7983
12	GSM	Back	512	1850.2	28.79	29.0	1.05	0.5892	0.6184
13	GSM	Bottom side	512	1850.2	28.79	29.0	1.05	0.3563	0.3740
14	GSM	Left side	512	1850.2	28.79	29.0	1.05	0.3013	0.3162
15	GSM	Right side	512	1850.2	28.79	29.0	1.05	0.3019	0.3169
16	GPRS_4TX	Front	512	1850.2	26.30	26.5	1.05	1.2815	1.3419
17	GPRS_4TX	Front	661	1880.0	25.42	26.5	1.28	1.0291	1.3196
18	GPRS_4TX	Front	810	1909.8	26.11	26.5	1.09	0.7062	0.7726
19	GPRS_4TX	Back	512	1850.2	26.30	26.5	1.05	1.1683	1.2234
20	GPRS_4TX	Back	661	1880.0	25.42	26.5	1.28	0.7253	0.9301
21	GPRS_4TX	Back	810	1909.8	26.11	26.5	1.09	0.6533	0.7147
22	GPRS_4TX	Bottom side	512	1850.2	26.30	26.5	1.05	0.3727	0.3903
23	GPRS_4TX	Left side	512	1850.2	26.30	26.5	1.05	0.2921	0.3059
24	GPRS_4TX	Right side	512	1850.2	26.30	26.5	1.05	0.2483	0.2600

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

## 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
<b>Measurement System</b>									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	$\infty$
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	$(1_{-Cp})^{1/2}$	$(1_{-Cp})^{1/2}$	1.02	1.02	$\infty$
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	$(Cp)^{1/2}$	$(Cp)^{1/2}$	1.63	1.63	$\infty$
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	$\infty$
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	$\infty$
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	$\infty$
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	$\infty$
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	$\infty$
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	$\infty$
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	$\infty$
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	$\infty$
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	$\infty$
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	$\infty$
<b>Test Sample Related</b>									
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	$\infty$
<b>Phantom and Tissue Parameters</b>									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	$\infty$
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
<b>Measurement System</b>									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	$\infty$
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	$(1_{Cp})^{1/2}$	$(1_{Cp})^{1/2}$	1.02	1.02	$\infty$
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	$(Cp)^{1/2}$	$(Cp)^{1/2}$	1.63	1.63	$\infty$
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	$\infty$
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	$\infty$
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	$\infty$
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	$\infty$
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	$\infty$
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	$\infty$
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	$\infty$
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	$\infty$
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	$\infty$
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	$\infty$
<b>Dipole</b>									
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	$\infty$
<b>Phantom and Tissue Parameters</b>									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	$\infty$
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 Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 21 seconds

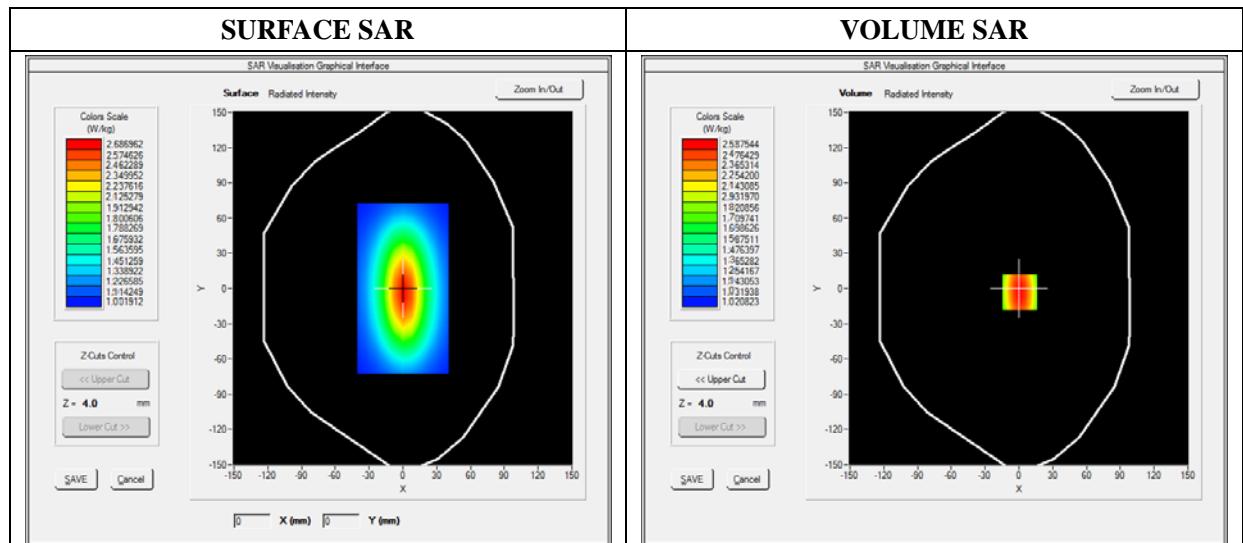
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 03/21/2014

### A. Experimental conditions

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

### B. SAR Measurement Results

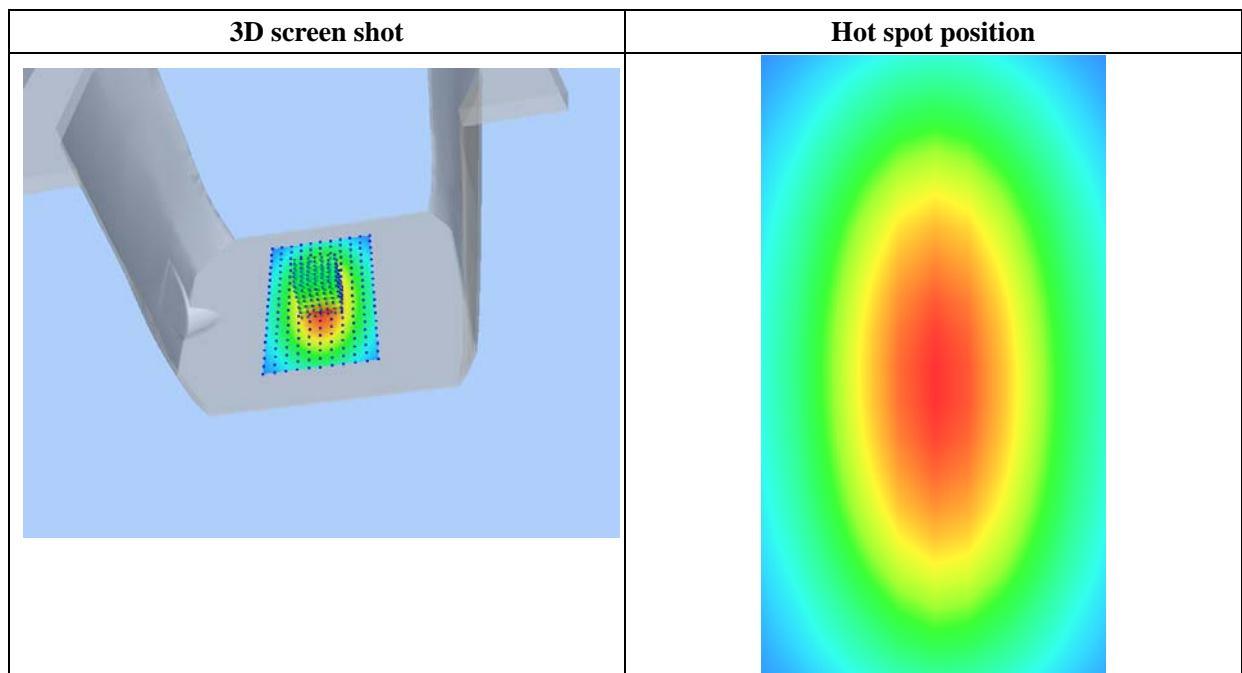
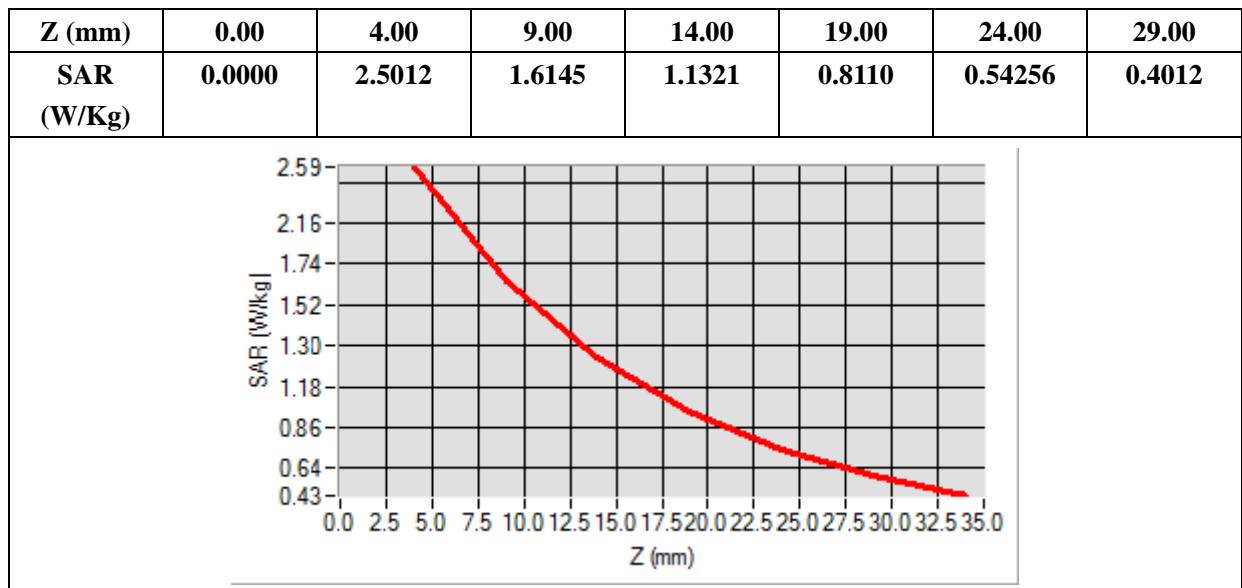
Frequency (MHz)	835.000000
Relative Permittivity (real part)	55.802100
Conductivity (S/m)	0.96000
Power Variation (%)	0.80000
Ambient Temperature	21.1
Liquid Temperature	21.3



**Maximum location: X=0.00, Y=0.00**

<b>SAR 10g (W/Kg)</b>	1.523425
<b>SAR 1g (W/Kg)</b>	2.412850

**Z Axis Scan**



# MEASUREMENT 2

## For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 21 seconds

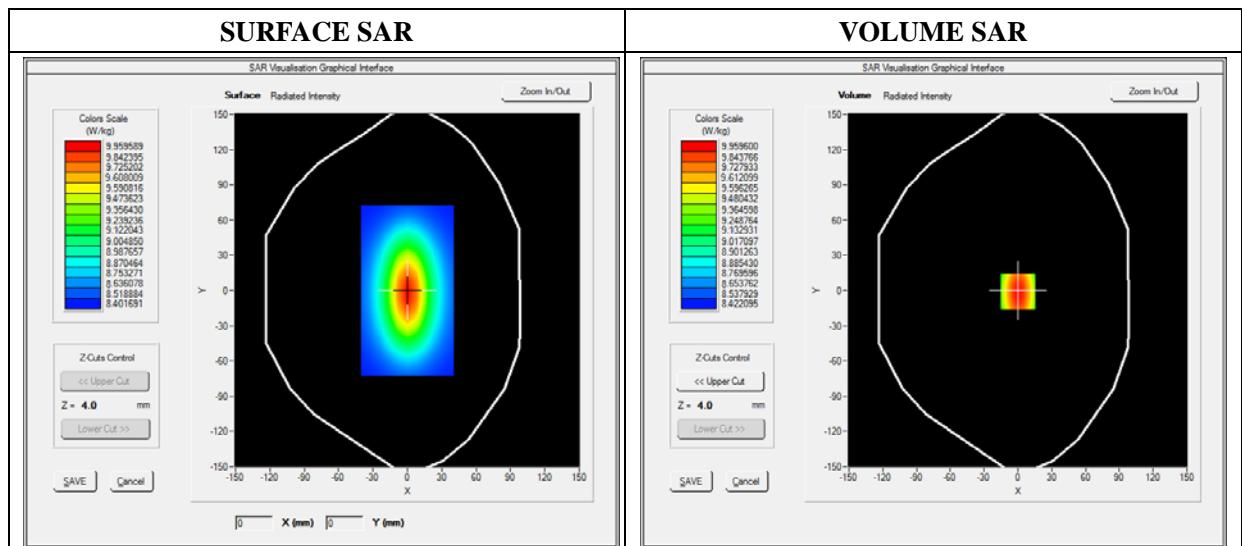
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

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

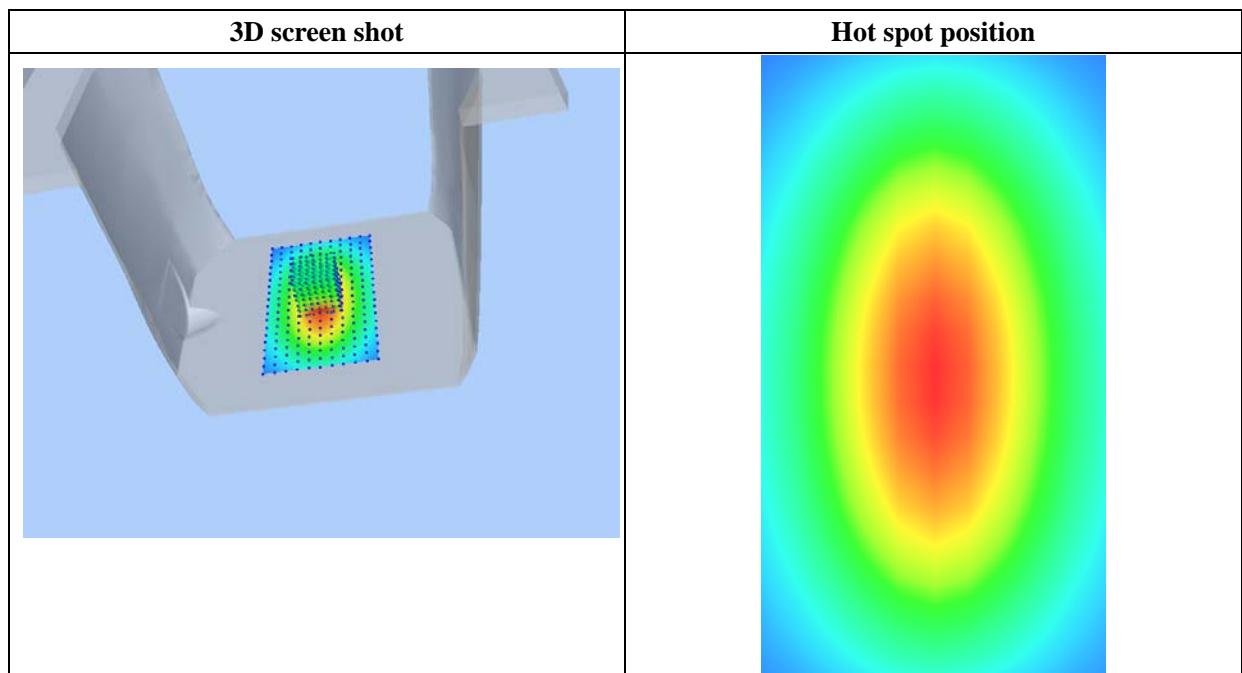
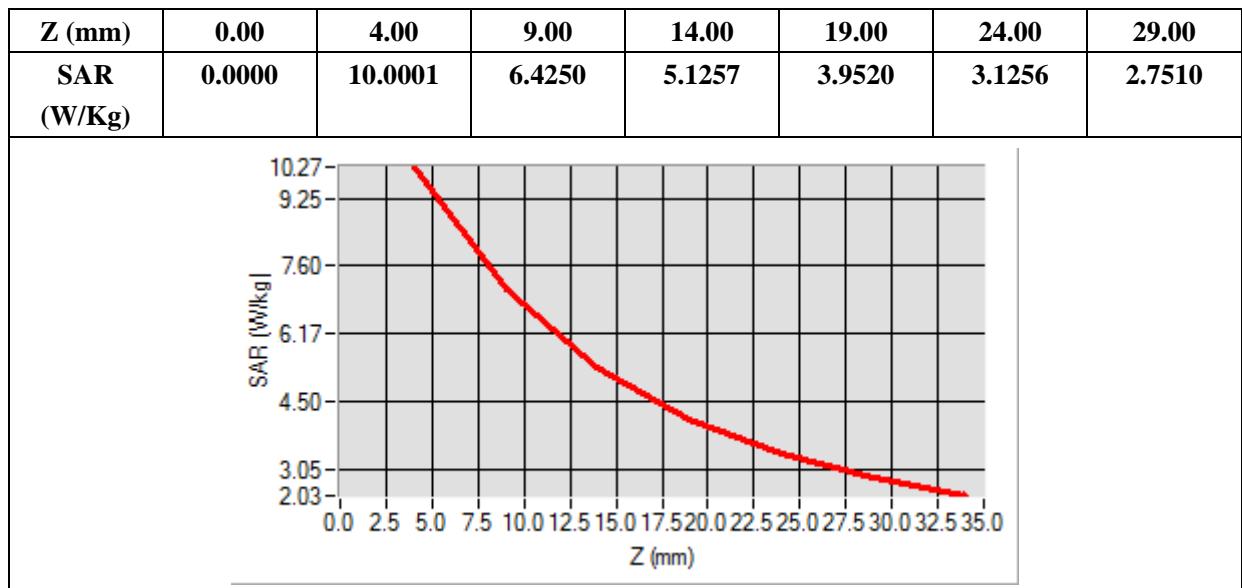
## B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	51.202000
Conductivity (S/m)	1.510200
Power Variation (%)	0.752100
Ambient Temperature	21.1
Liquid Temperature	21.3



**Maximum location: X=0.00, Y=0.00**

<b>SAR 10g (W/Kg)</b>	5.012444
<b>SAR 1g (W/Kg)</b>	9.867852

**Z Axis Scan**

## Annex B. Plots of SAR Measurement

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<b><u>TYPE</u></b>	<b><u>BAND</u></b>	<b><u>PARAMETERS</u></b>
Tracker	<b>GSM850</b>	<u>Measurement 1:</u> Flat Plane with Front device position on Middle Channel in GSM mode
Tracker	<b>GSM850</b>	<u>Measurement 2:</u> Flat Plane with Back device position on Middle Channel in GSM mode
Tracker	<b>GSM850</b>	<u>Measurement 3:</u> Flat Plane with Top device position on Middle Channel in GSM mode
Tracker	<b>GSM850</b>	<u>Measurement 4:</u> Flat Plane with Left device position on Middle Channel in GSM mode
Tracker	<b>GSM850</b>	<u>Measurement 5:</u> Flat Plane with Right device position on Middle Channel in GSM mode
Tracker	<b>GPRS850_4TX</b>	<u>Measurement 6:</u> Flat Plane with Front device position on Middle Channel in GPRS mode
Tracker	<b>GPRS850_4TX</b>	<u>Measurement 7:</u> Flat Plane with Back device position on Middle Channel in GPRS mode
Tracker	<b>GPRS850_4TX</b>	<u>Measurement 8:</u> Flat Plane with Top device position on Middle Channel in GPRS mode
Tracker	<b>GPRS850_4TX</b>	<u>Measurement 9:</u> Flat Plane with Left device position on Middle Channel in GPRS mode
Tracker	<b>GPRS850_4TX</b>	<u>Measurement 10:</u> Flat Plane with Right device position on Middle Channel in GPRS mode
Tracker	<b>GSM1900</b>	<u>Measurement 11:</u> Flat Plane with Front device position on High Channel in GSM mode
Tracker	<b>GSM1900</b>	<u>Measurement 12:</u> Flat Plane with Back device position on High Channel in GSM mode
Tracker	<b>GSM1900</b>	<u>Measurement 13:</u> Flat Plane with Top device position on High Channel in GSM mode
Tracker	<b>GSM1900</b>	<u>Measurement 14:</u> Flat Plane with Left device position on High Channel in GSM mode
Tracker	<b>GSM1900</b>	<u>Measurement 15:</u> Flat Plane with Right device position on High Channel in GSM mode
Tracker	<b>GPRS1900_4TX</b>	<u>Measurement 16:</u> Flat Plane with Front device position on Low Channel in GPRS mode
Tracker	<b>GPRS1900_4TX</b>	<u>Measurement 17:</u> Flat Plane with Front device position on Middle Channel in GPRS mode
Tracker	<b>GPRS1900_4TX</b>	<u>Measurement 18:</u> Flat Plane with Front device position on High Channel in GPRS mode
Tracker	<b>GPRS1900_4TX</b>	<u>Measurement 19:</u> Flat Plane with Back device position on Low Channel in GPRS mode

<b>Tracker</b>	<b>GPRS1900_4TX</b>	<u>Measurement 20:</u> Flat Plane with Back device position on Middle Channel in GPRS mode
<b>Tracker</b>	<b>GPRS1900_4TX</b>	<u>Measurement 21:</u> Flat Plane with Back device position on High Channel in GPRS mode
<b>Tracker</b>	<b>GPRS1900_4TX</b>	<u>Measurement 22:</u> Flat Plane with Top device position on Low Channel in GPRS mode
<b>Tracker</b>	<b>GPRS1900_4TX</b>	<u>Measurement 23:</u> Flat Plane with Left device position on Low Channel in GPRS mode
<b>Tracker</b>	<b>GPRS1900_4TX</b>	<u>Measurement 24:</u> Flat Plane with Right device position on Low Channel in GPRS mode

# MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

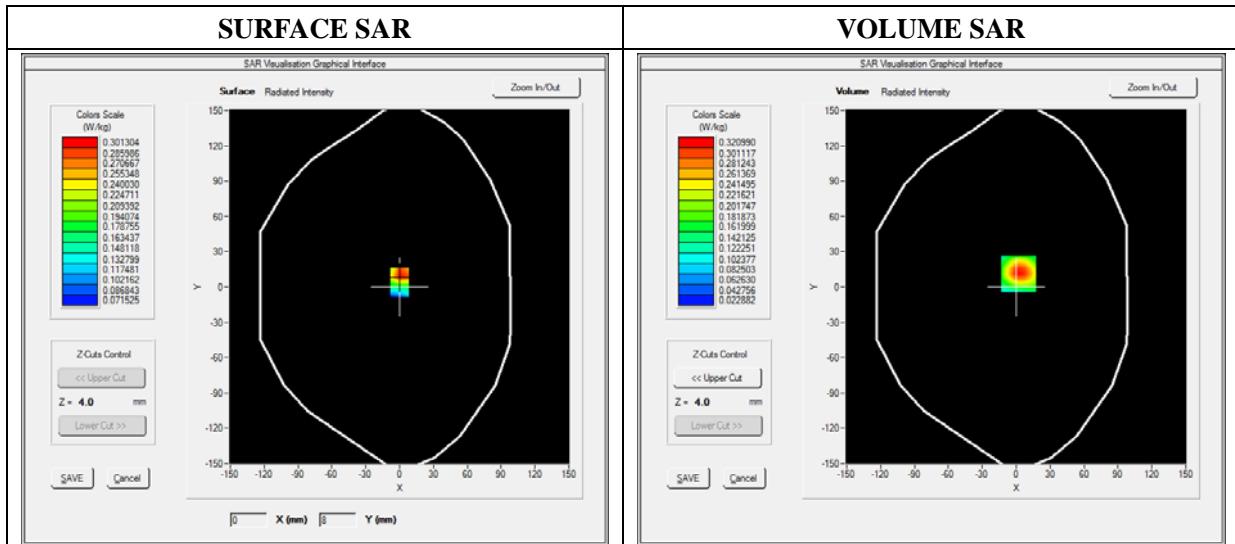
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 2012/11/26

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat Plane
<b>Device Position</b>	Front
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

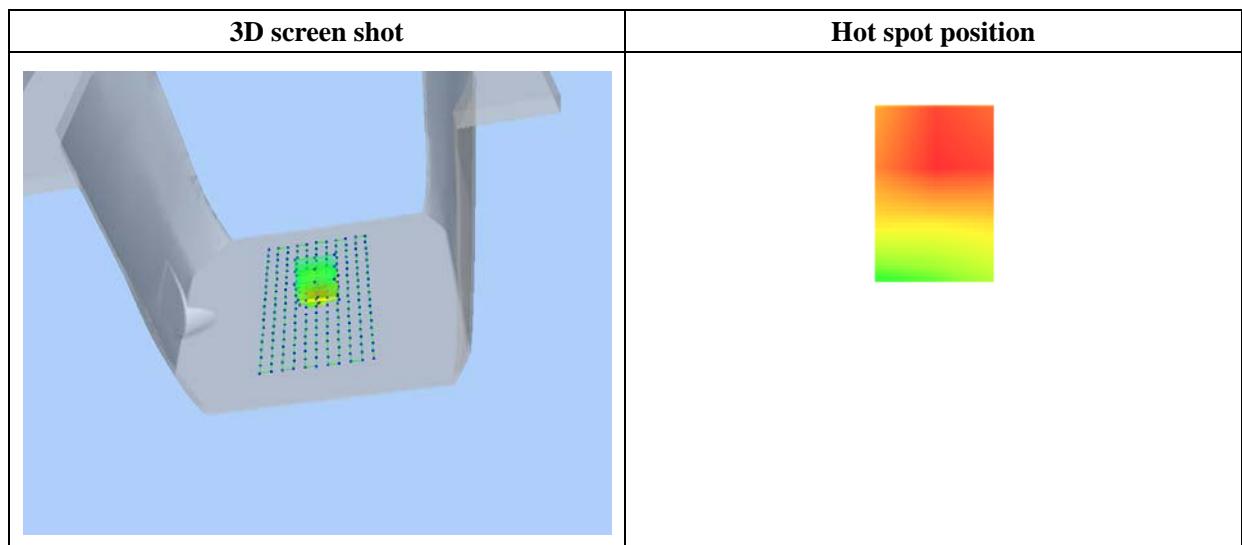
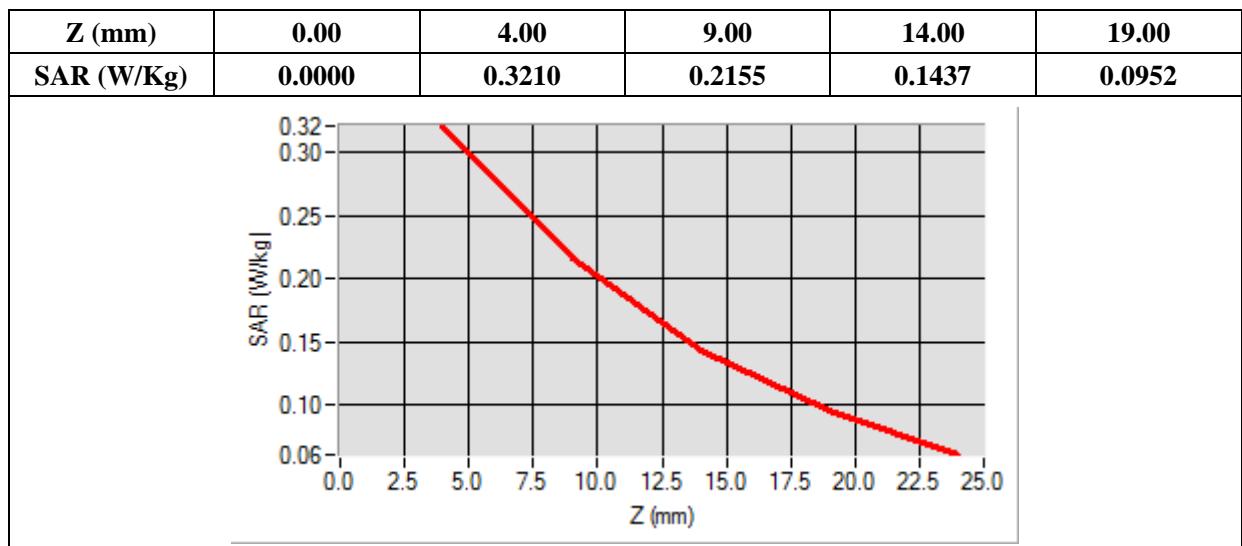
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative Permittivity (real part)</b>	55.802100
<b>Conductivity (S/m)</b>	0.96000
<b>Power Variation (%)</b>	0.80000
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=2.00, Y=11.00**

<b>SAR 10g (W/Kg)</b>	<b>0.199564</b>
<b>SAR 1g (W/Kg)</b>	<b>0.334697</b>



## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

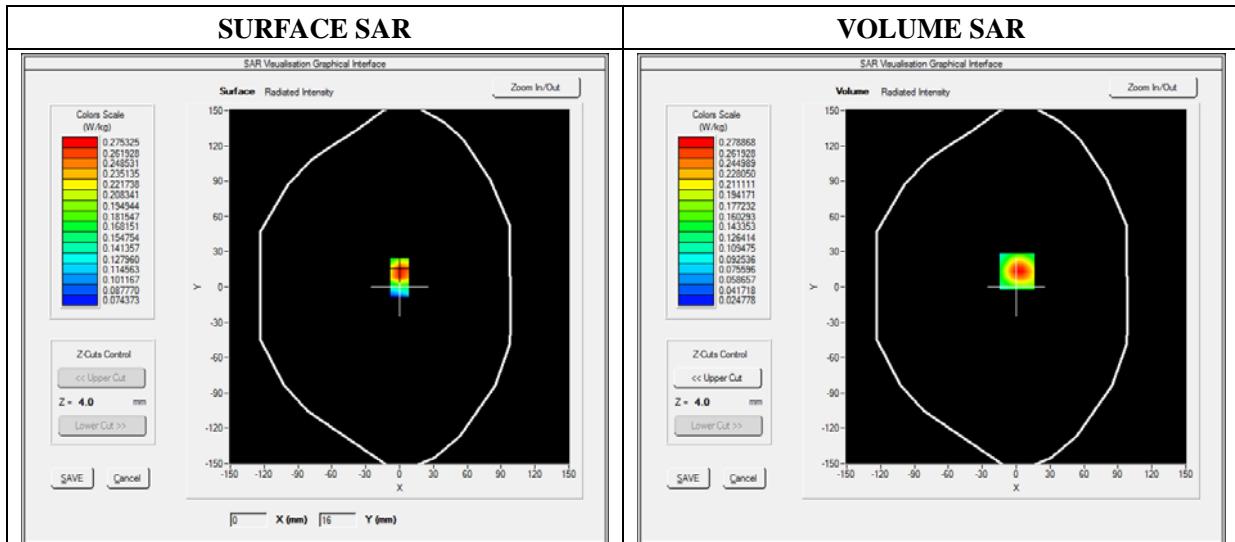
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 2012/11/26

### A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat plane
<b>Device Position</b>	Back
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

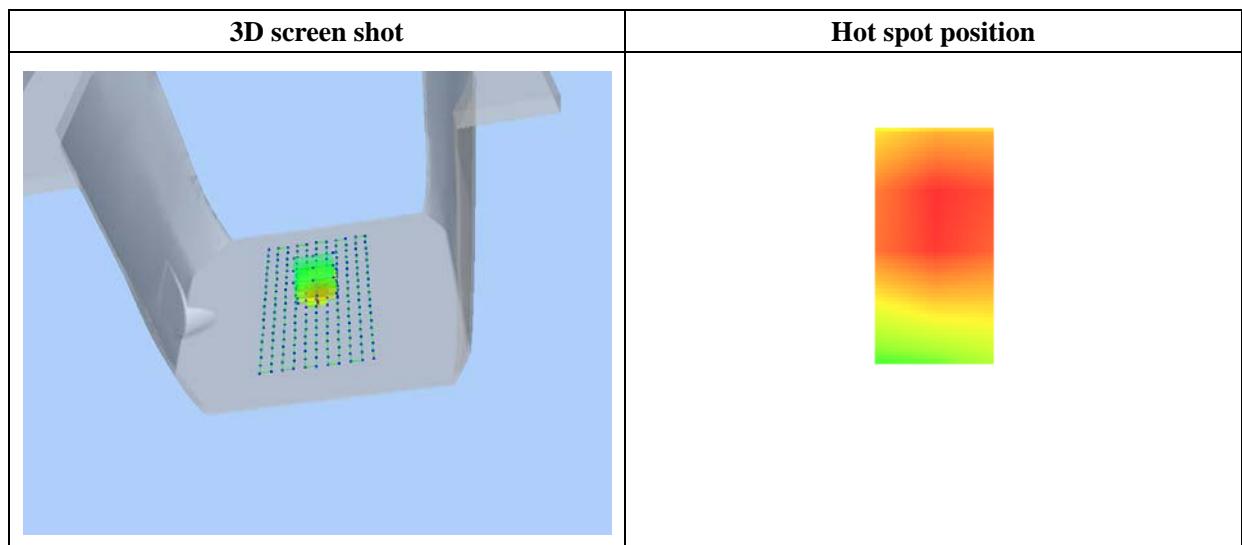
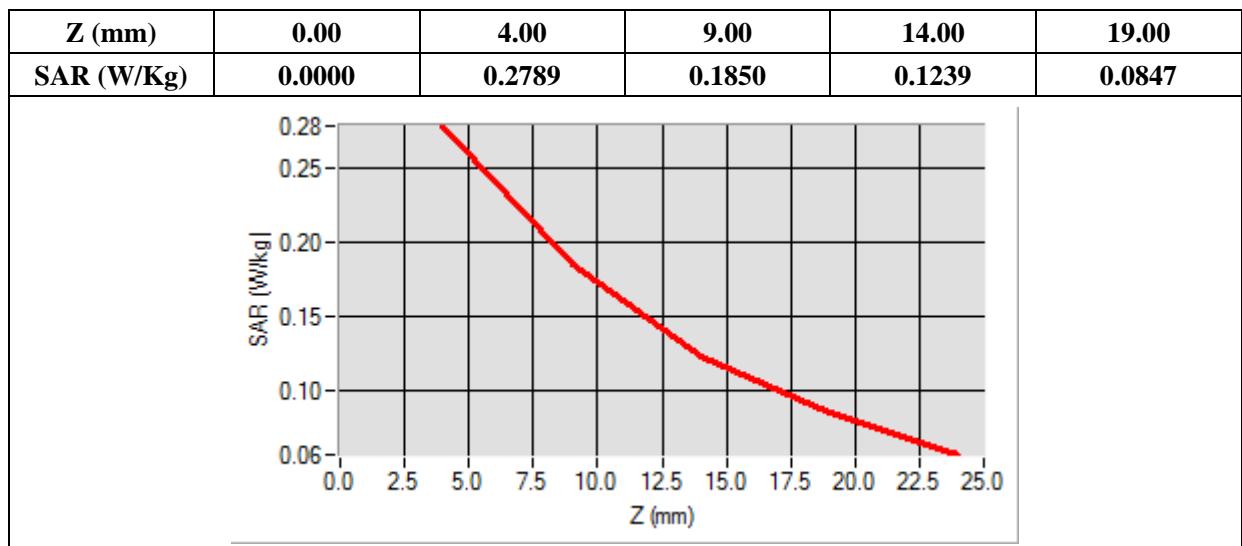
### B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative Permittivity (real part)</b>	55.802100
<b>Conductivity (S/m)</b>	0.96000
<b>Power Variation (%)</b>	0.80000
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=1.00, Y=13.00**

<b>SAR 10g (W/Kg)</b>	<b>0.187866</b>
<b>SAR 1g (W/Kg)</b>	<b>0.311580</b>



# MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

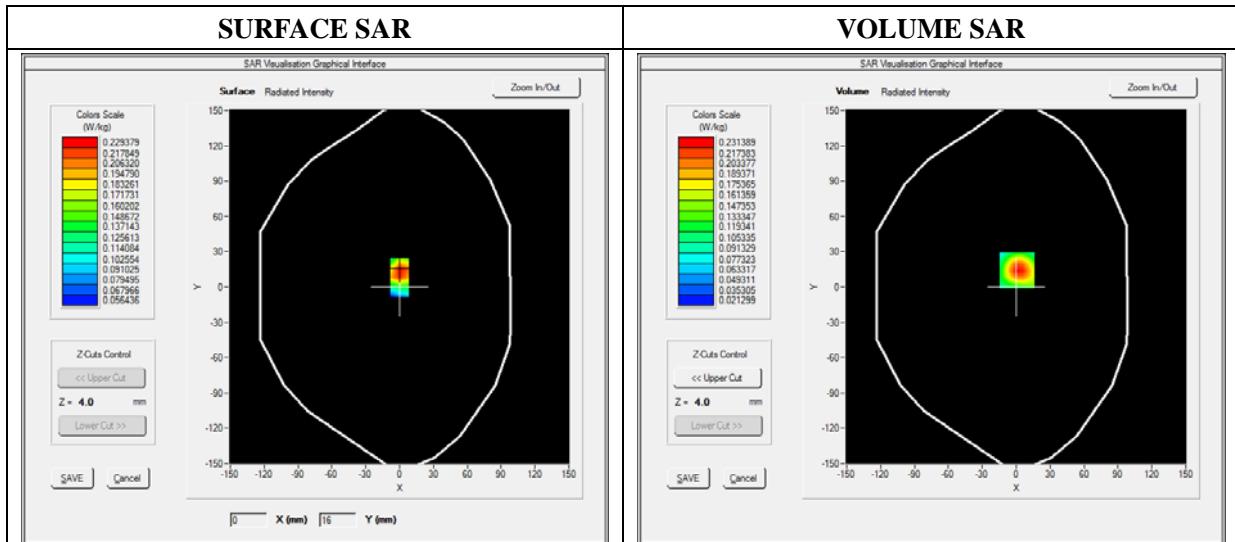
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 2012/11/26

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat plane
<b>Device Position</b>	Top
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

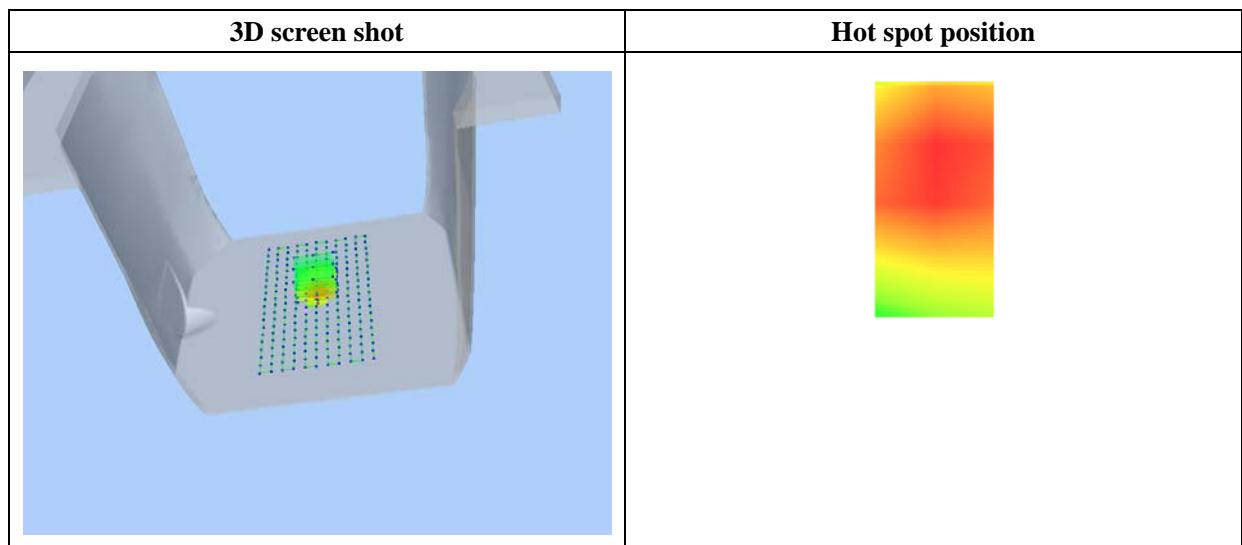
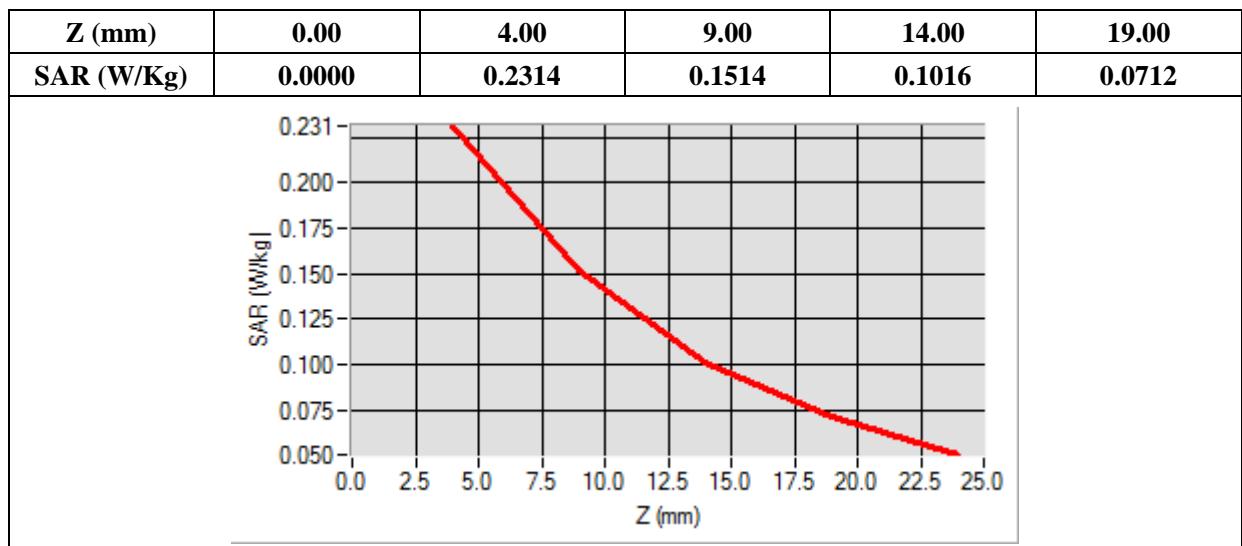
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative Permittivity (real part)</b>	55.802100
<b>Conductivity (S/m)</b>	0.96000
<b>Power Variation (%)</b>	0.80000
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=1.00, Y=14.00**

<b>SAR 10g (W/Kg)</b>	<b>0.146183</b>
<b>SAR 1g (W/Kg)</b>	<b>0.242938</b>



# MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

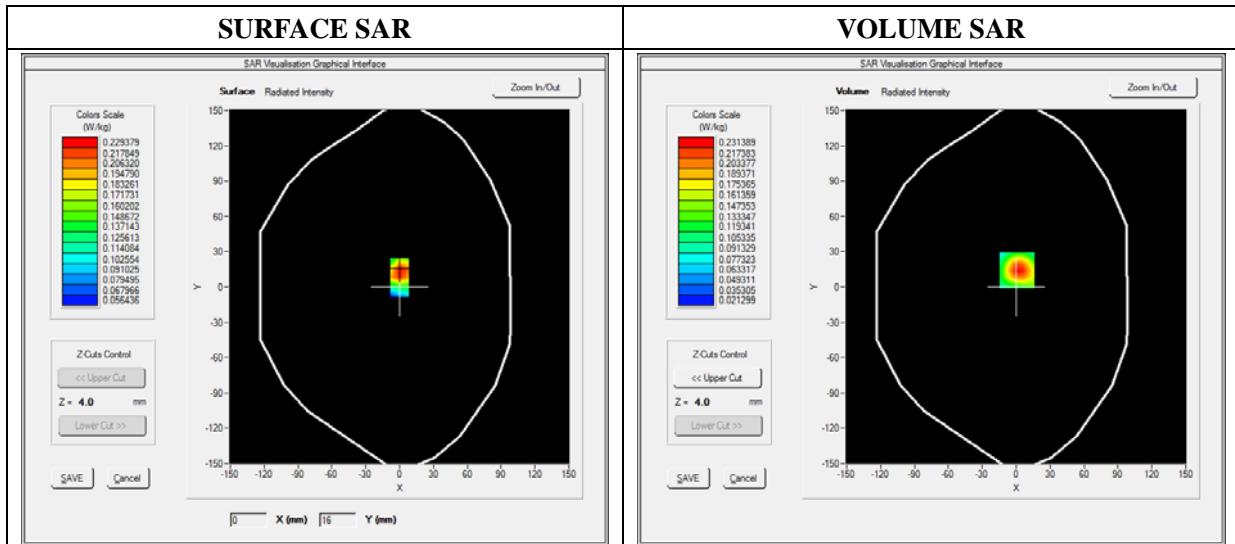
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 2012/11/26

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat plane
<b>Device Position</b>	Left
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

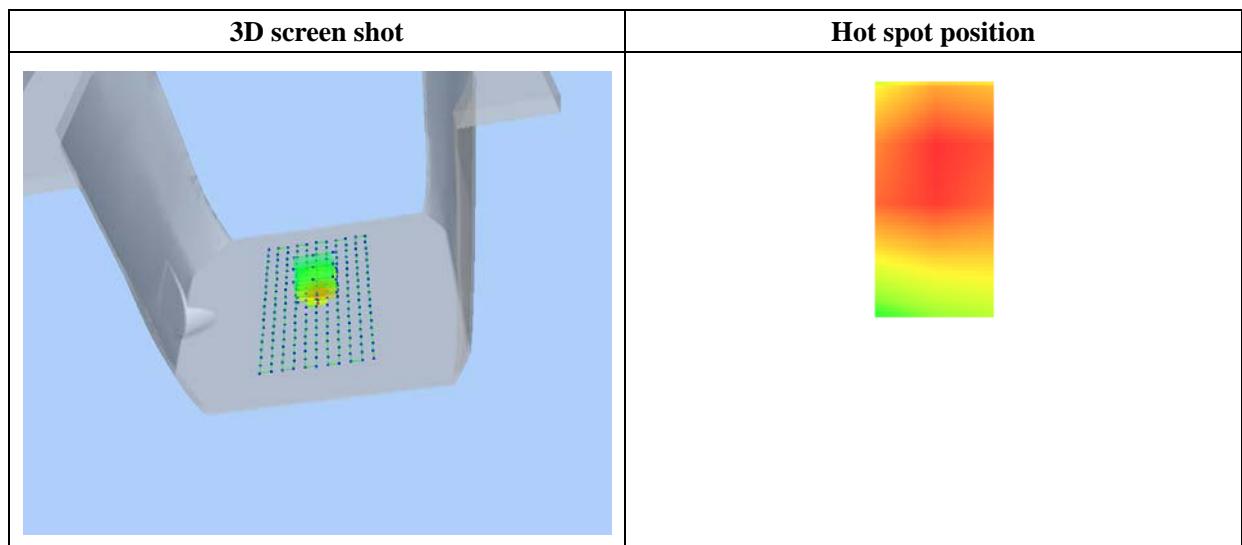
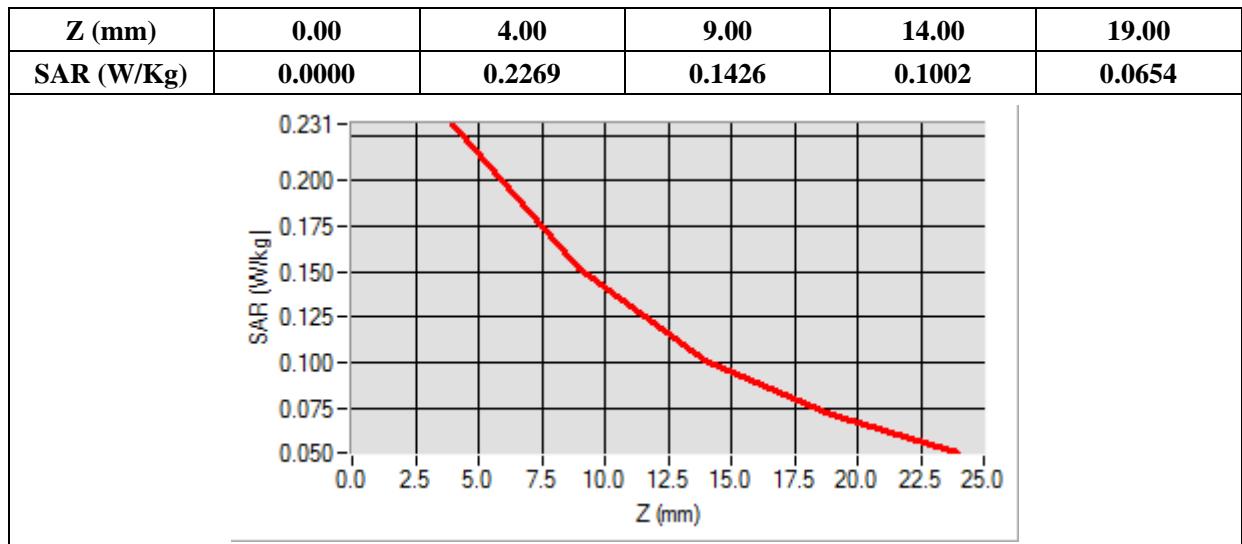
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative Permittivity (real part)</b>	55.802100
<b>Conductivity (S/m)</b>	0.96000
<b>Power Variation (%)</b>	0.80000
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=1.00, Y=14.00**

<b>SAR 10g (W/Kg)</b>	<b>0.134541</b>
<b>SAR 1g (W/Kg)</b>	<b>0.212560</b>



# MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

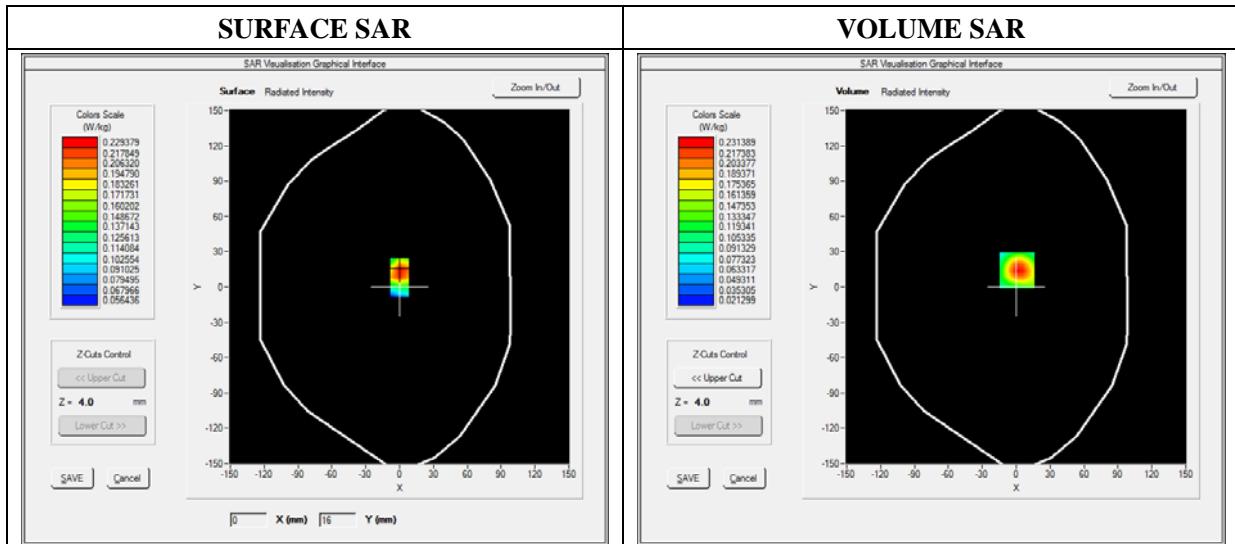
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 2012/11/26

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat plane
<b>Device Position</b>	Right
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

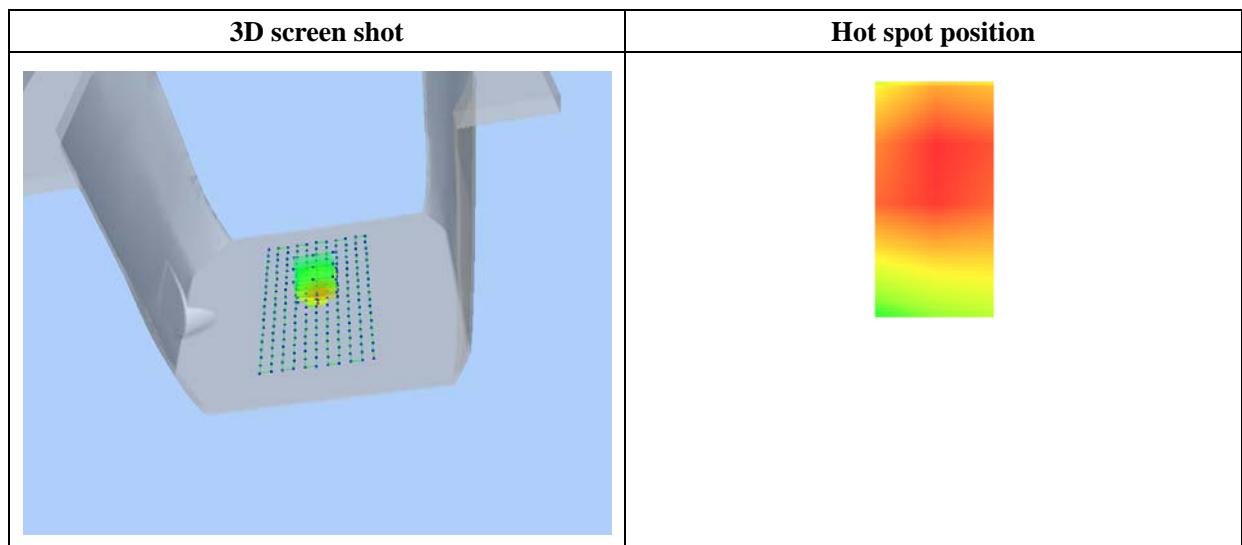
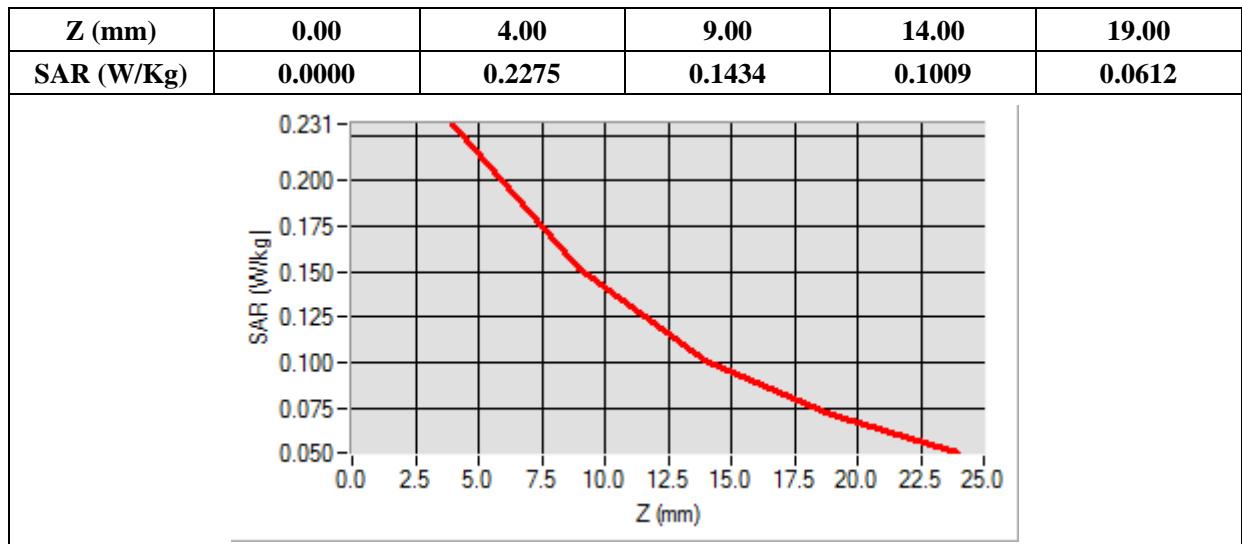
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative Permittivity (real part)</b>	55.802100
<b>Conductivity (S/m)</b>	0.96000
<b>Power Variation (%)</b>	0.80000
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=1.00, Y=14.00**

<b>SAR 10g (W/Kg)</b>	<b>0.133915</b>
<b>SAR 1g (W/Kg)</b>	<b>0.209182</b>



# MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

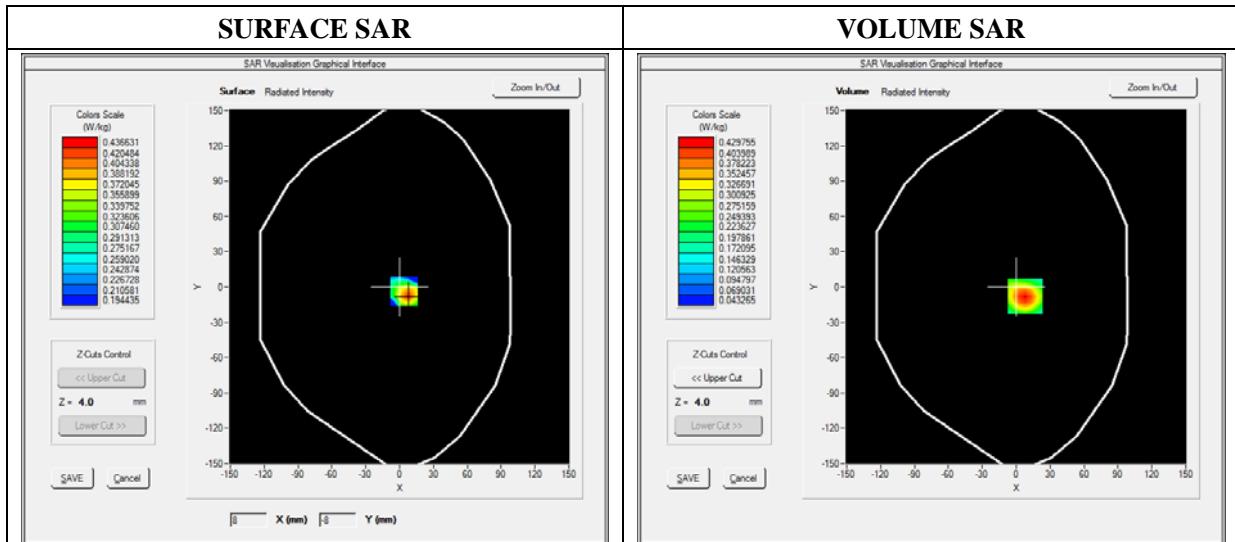
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 2012/11/26

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat plane
<b>Device Position</b>	Front
<b>Band</b>	GPRS850_4TX
<b>Channels</b>	Middle
<b>Signal</b>	Duty Cycle: 3.00 (Crest factor: 3.00)

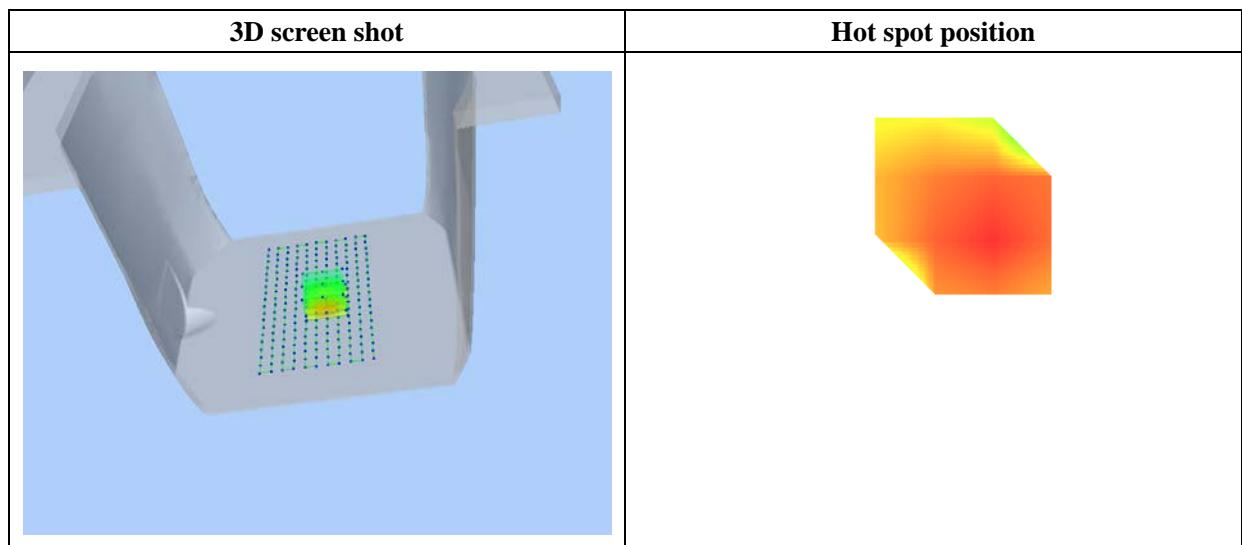
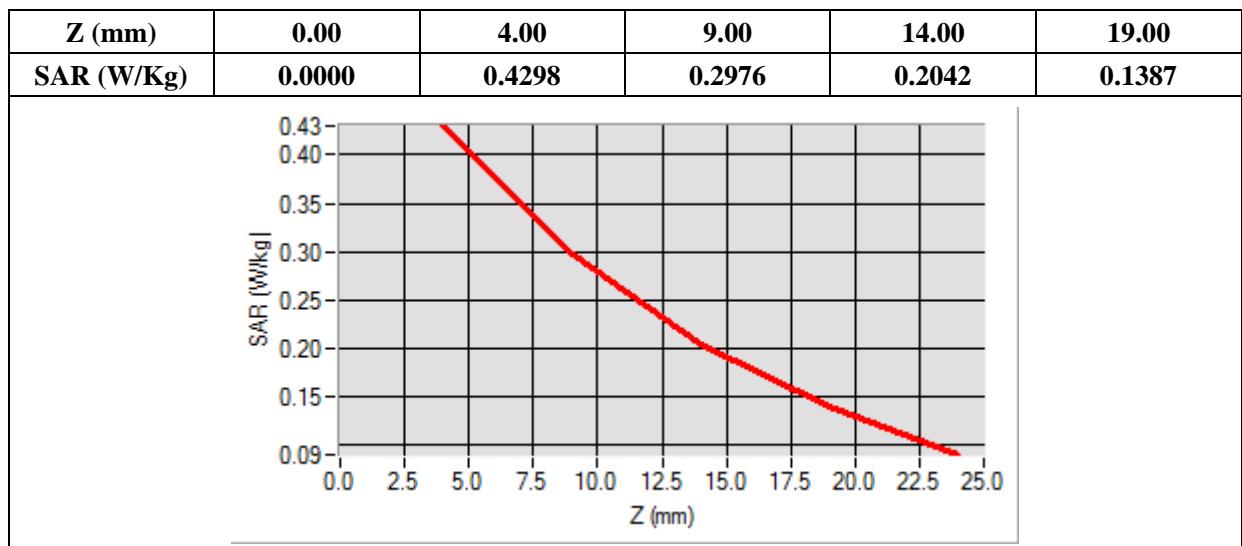
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative Permittivity (real part)</b>	55.802100
<b>Conductivity (S/m)</b>	0.96000
<b>Power Variation (%)</b>	0.80000
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



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

<b>SAR 10g (W/Kg)</b>	<b>0.243542</b>
<b>SAR 1g (W/Kg)</b>	<b>0.394986</b>



# MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

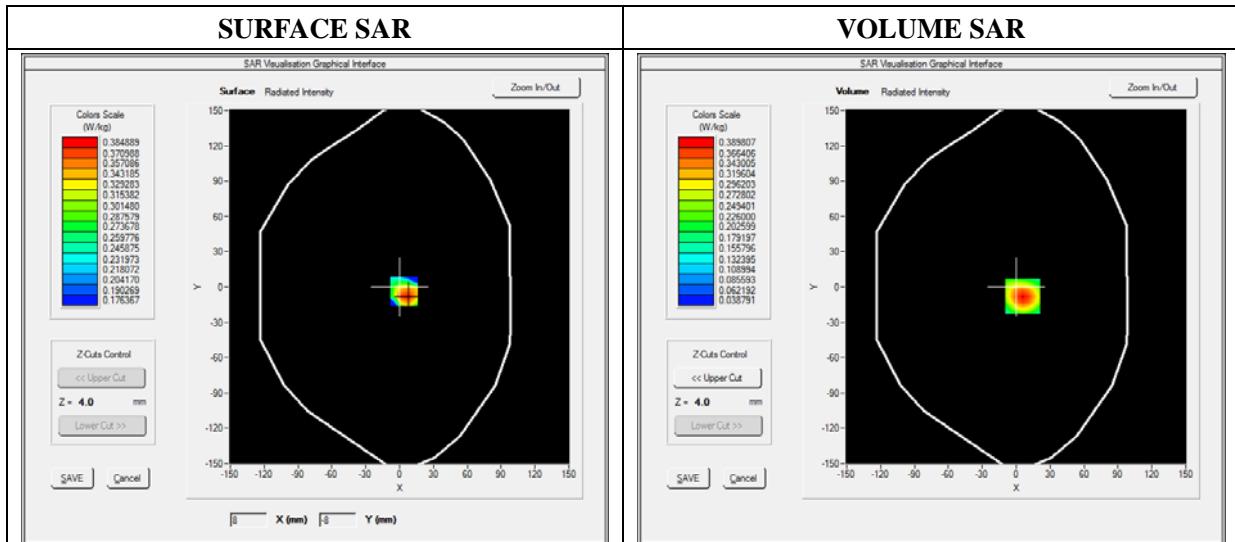
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 2012/11/26

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat plane
<b>Device Position</b>	Back
<b>Band</b>	GPRS850_4TX
<b>Channels</b>	Middle
<b>Signal</b>	Duty Cycle: 3.00 (Crest factor: 3.00)

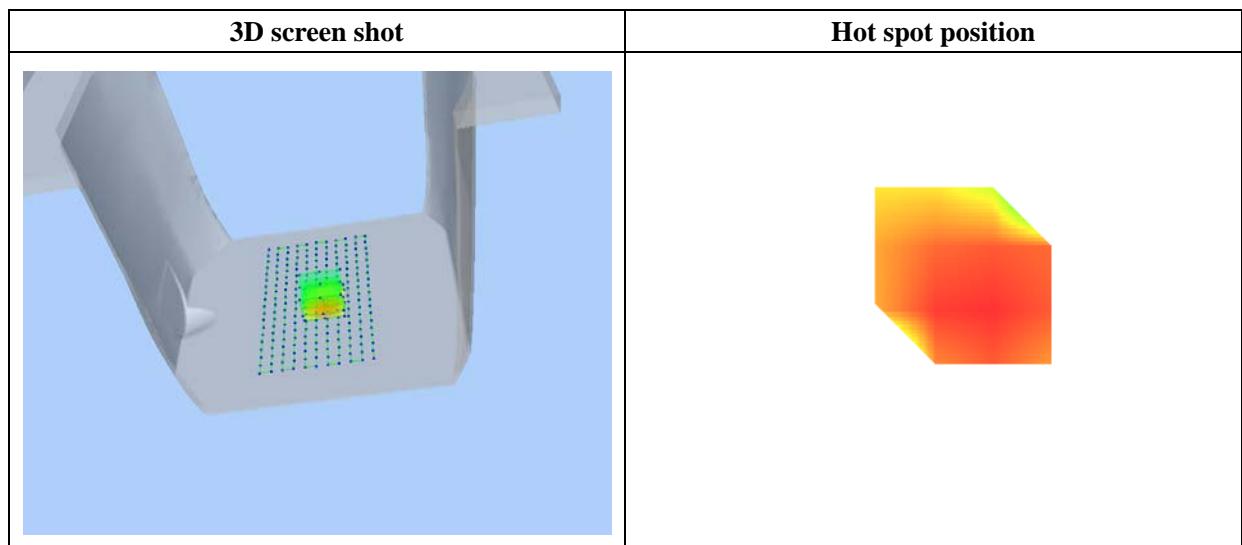
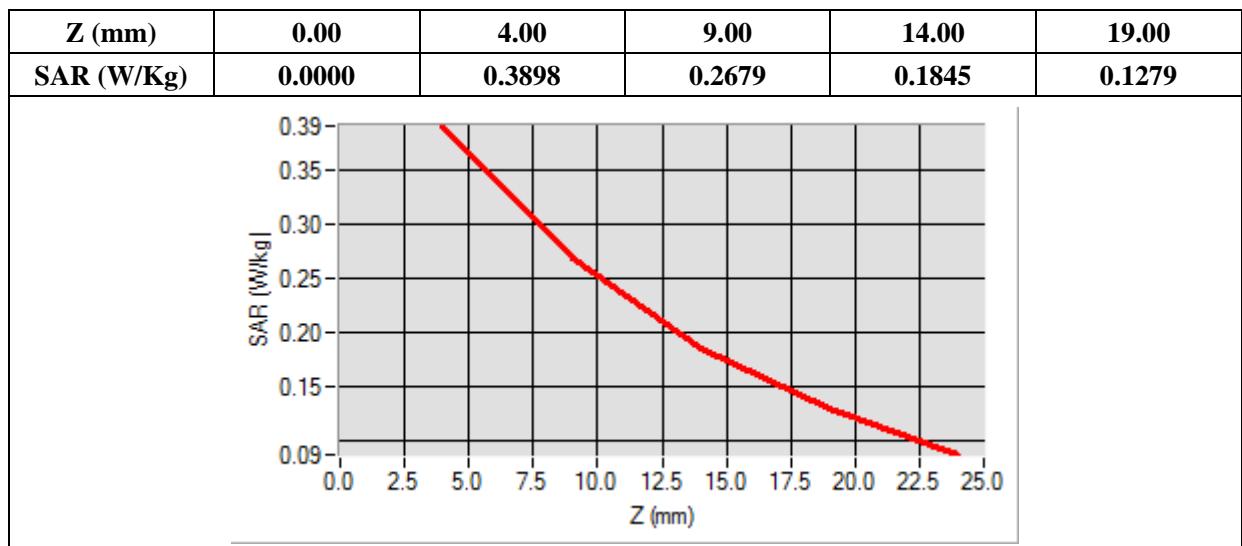
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative Permittivity (real part)</b>	55.802100
<b>Conductivity (S/m)</b>	0.96000
<b>Power Variation (%)</b>	0.80000
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=6.00, Y=-8.00**

<b>SAR 10g (W/Kg)</b>	<b>0.224861</b>
<b>SAR 1g (W/Kg)</b>	<b>0.360034</b>



# MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

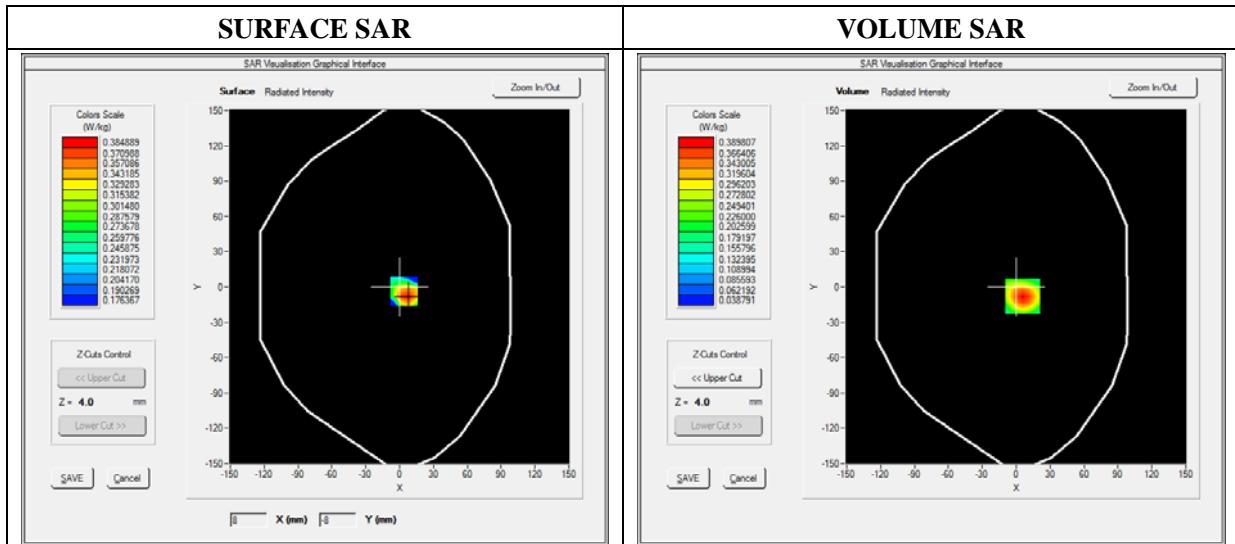
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 2012/11/26

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat plane
<b>Device Position</b>	Top
<b>Band</b>	GPRS850_4TX
<b>Channels</b>	Middle
<b>Signal</b>	Duty Cycle: 3.00 (Crest factor: 3.00)

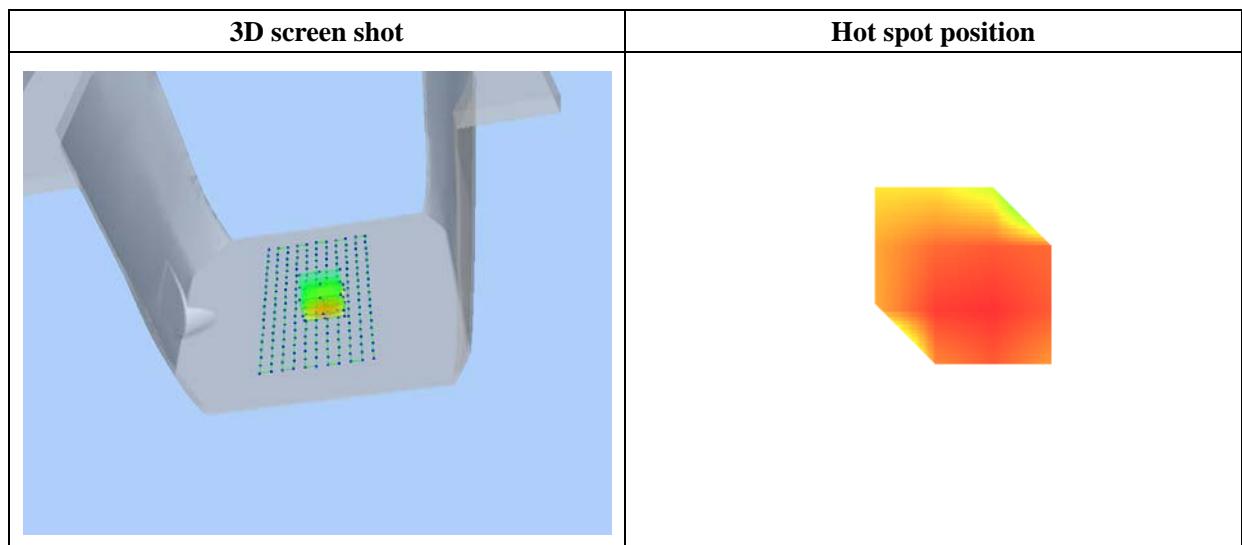
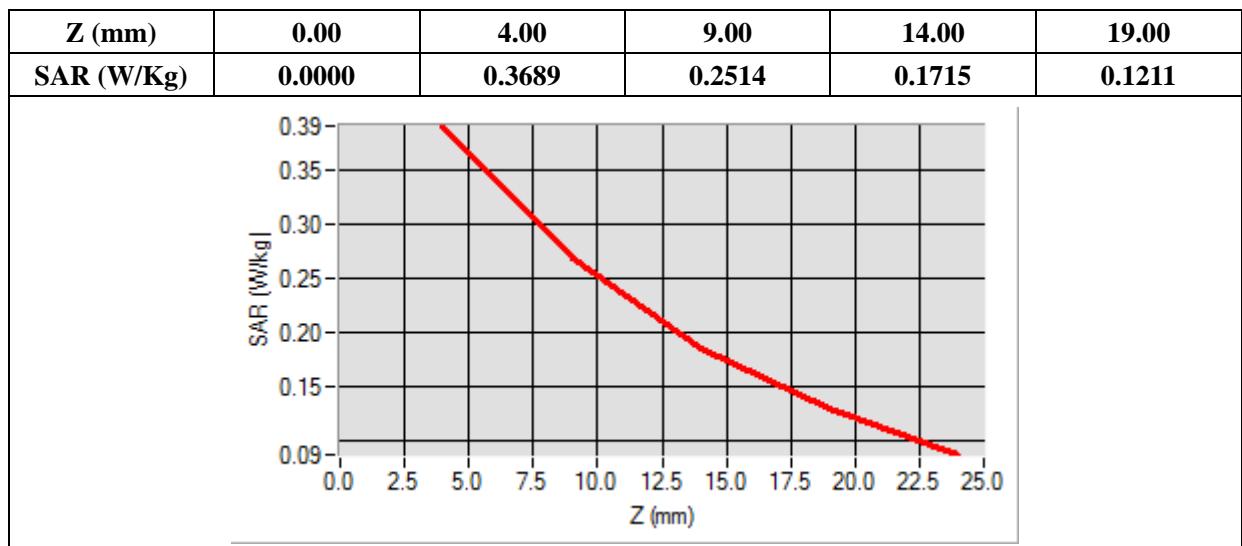
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative Permittivity (real part)</b>	55.802100
<b>Conductivity (S/m)</b>	0.96000
<b>Power Variation (%)</b>	0.80000
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=6.00, Y=-8.00**

<b>SAR 10g (W/Kg)</b>	<b>0.221500</b>
<b>SAR 1g (W/Kg)</b>	<b>0.325651</b>



# MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

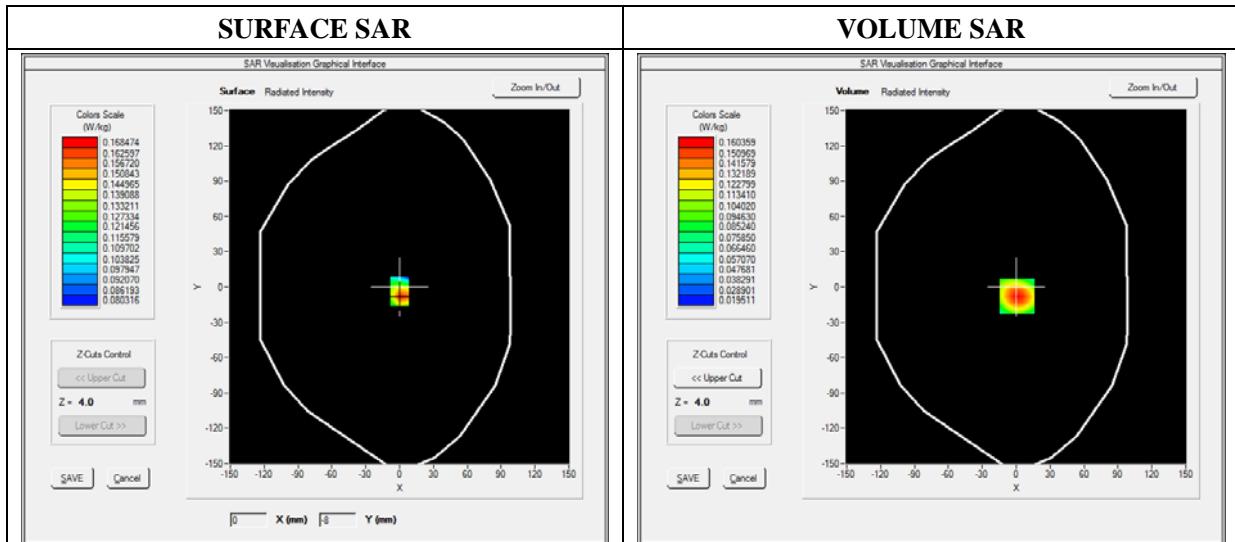
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 2012/11/26

## A. Experimental conditions

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

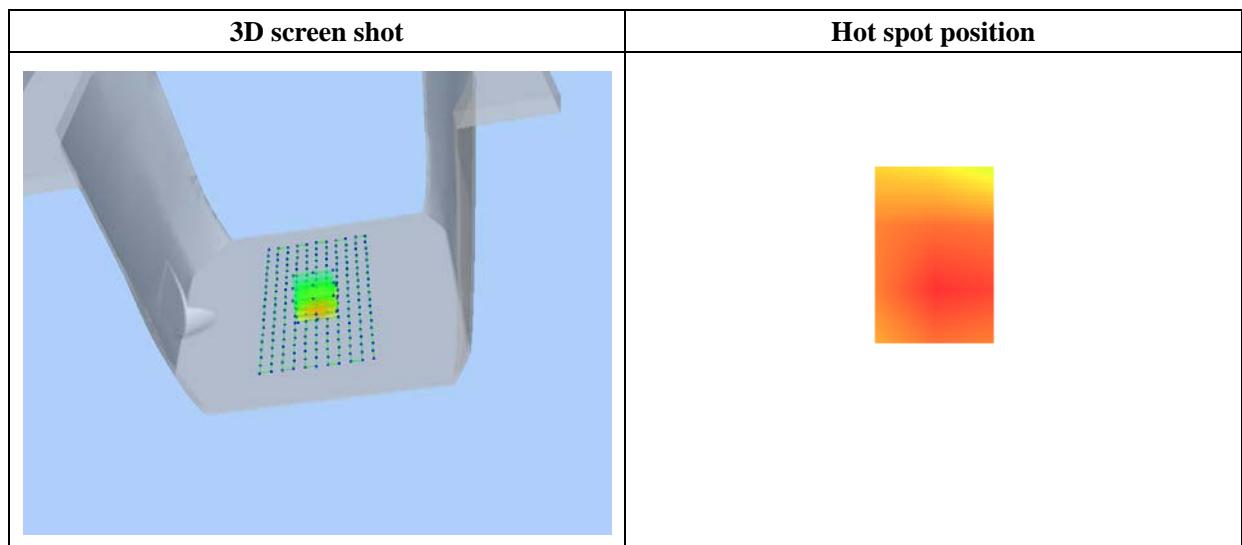
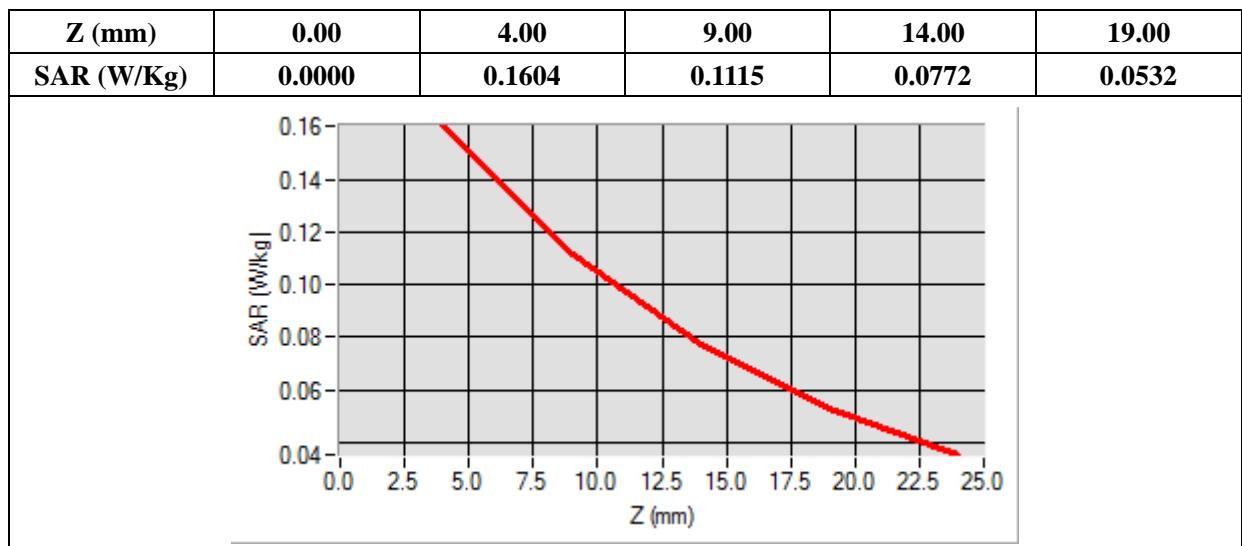
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative Permittivity (real part)</b>	55.802100
<b>Conductivity (S/m)</b>	0.96000
<b>Power Variation (%)</b>	0.80000
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=1.00, Y=-8.00**

<b>SAR 10g (W/Kg)</b>	<b>0.094836</b>
<b>SAR 1g (W/Kg)</b>	<b>0.148974</b>



# MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

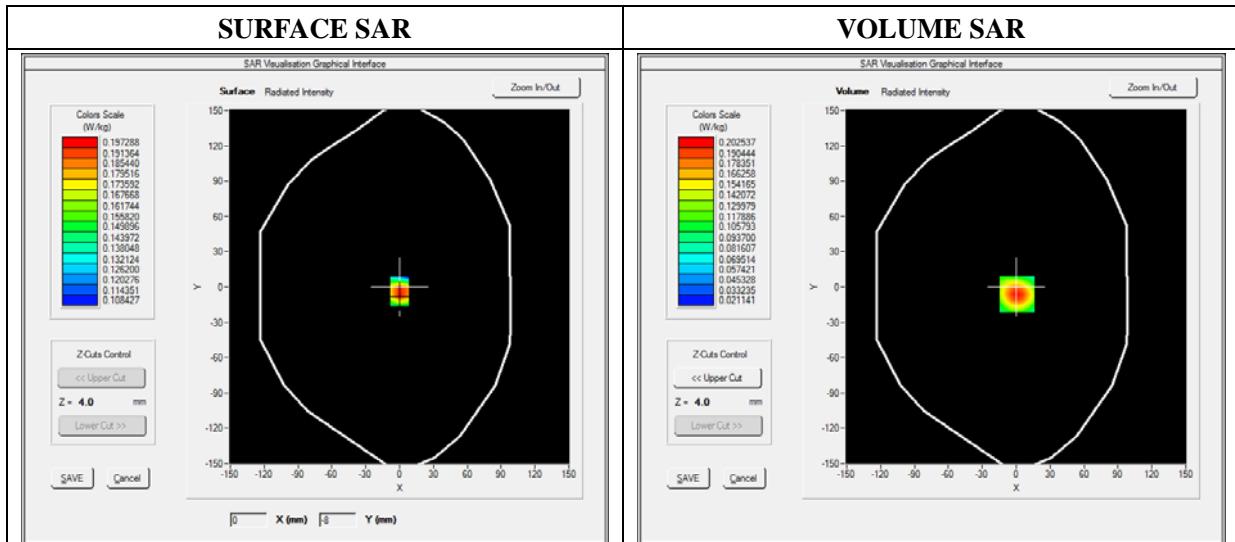
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.50; Calibrated: 2012/11/26

## A. Experimental conditions

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

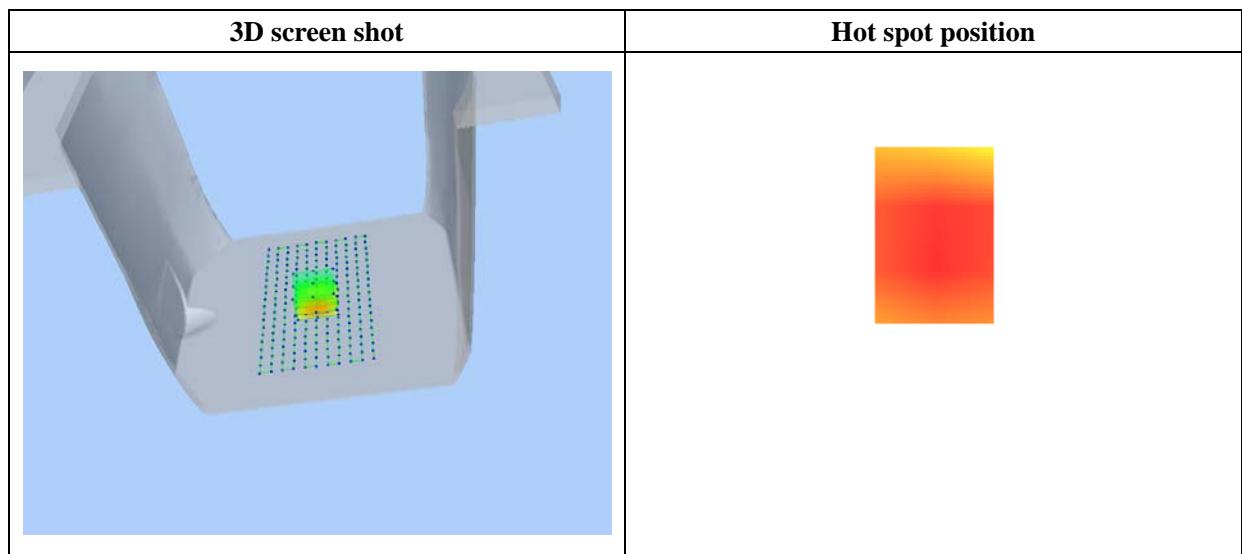
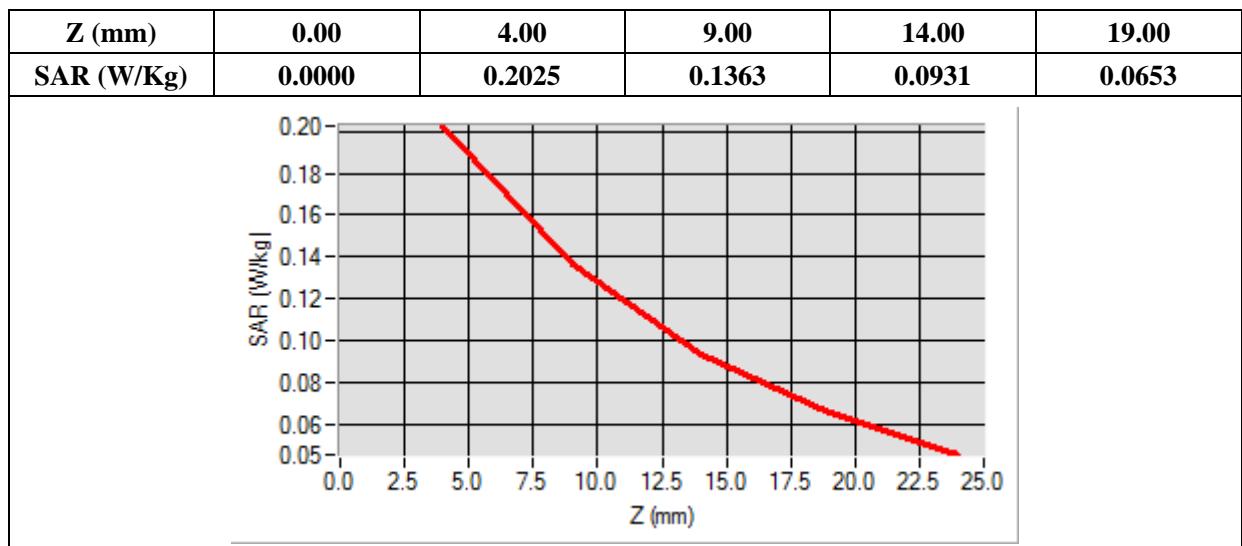
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	836.400000
<b>Relative Permittivity (real part)</b>	55.802100
<b>Conductivity (S/m)</b>	0.96000
<b>Power Variation (%)</b>	0.80000
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=1.00, Y=-6.00**

<b>SAR 10g (W/Kg)</b>	<b>0.116692</b>
<b>SAR 1g (W/Kg)</b>	<b>0.187250</b>



# MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

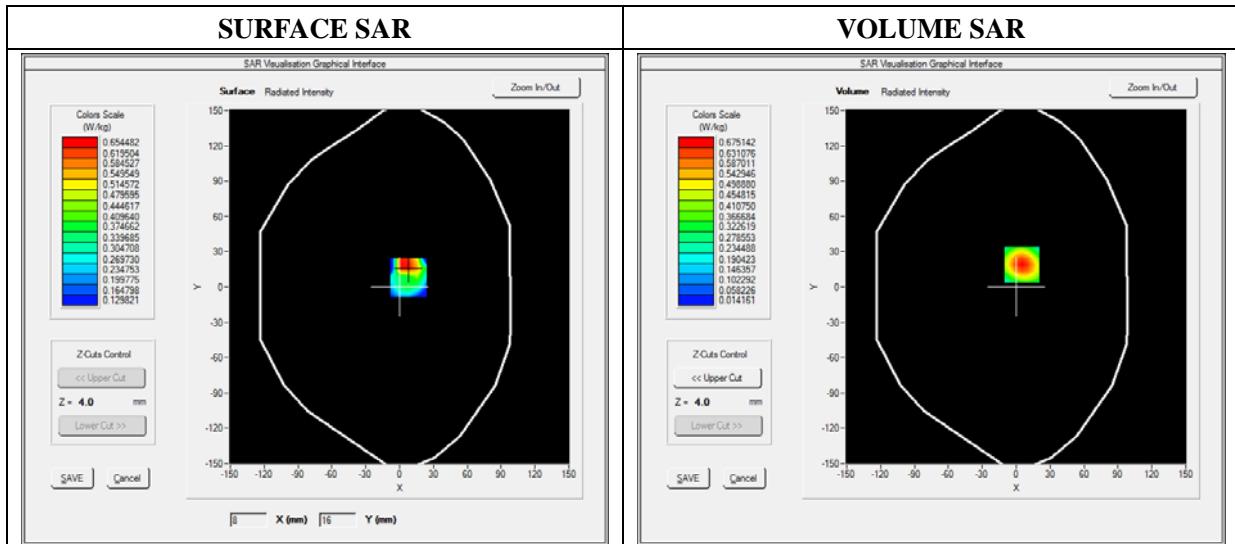
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat Plane
<b>Device Position</b>	Front
<b>Band</b>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	TDMA (Crest factor: 8.0)

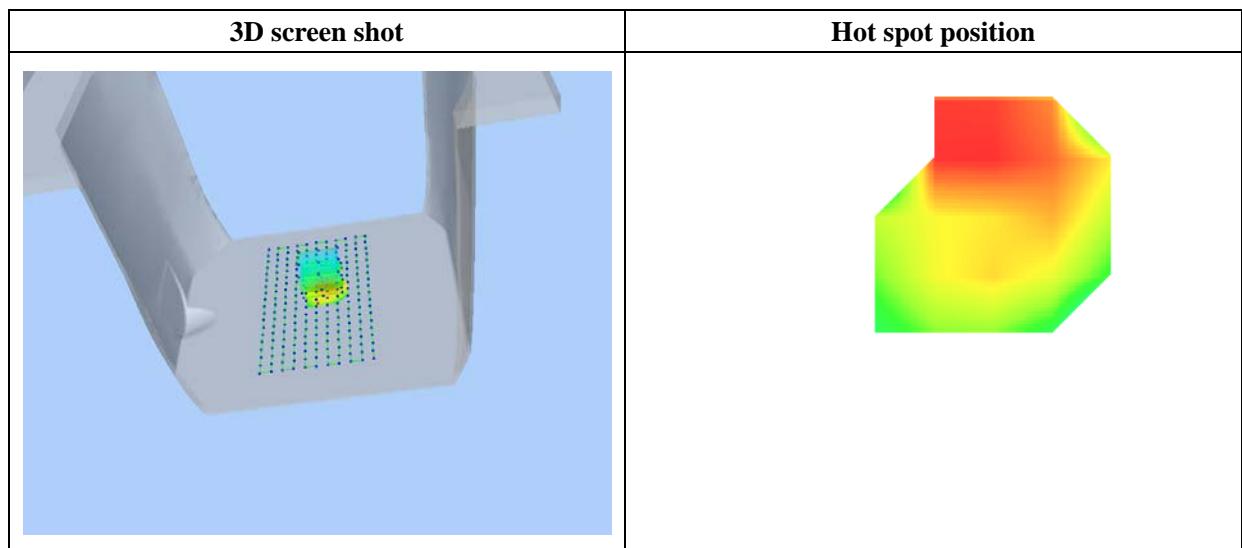
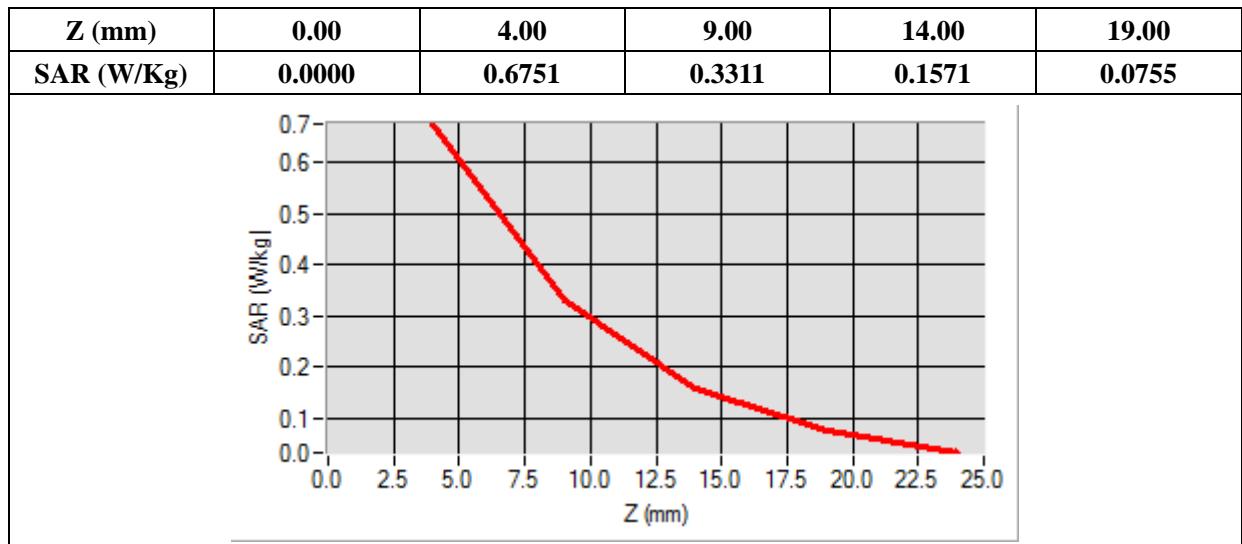
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1909.800000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=5.00, Y=19.00**

<b>SAR 10g (W/Kg)</b>	<b>0.382749</b>
<b>SAR 1g (W/Kg)</b>	<b>0.760604</b>



# MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

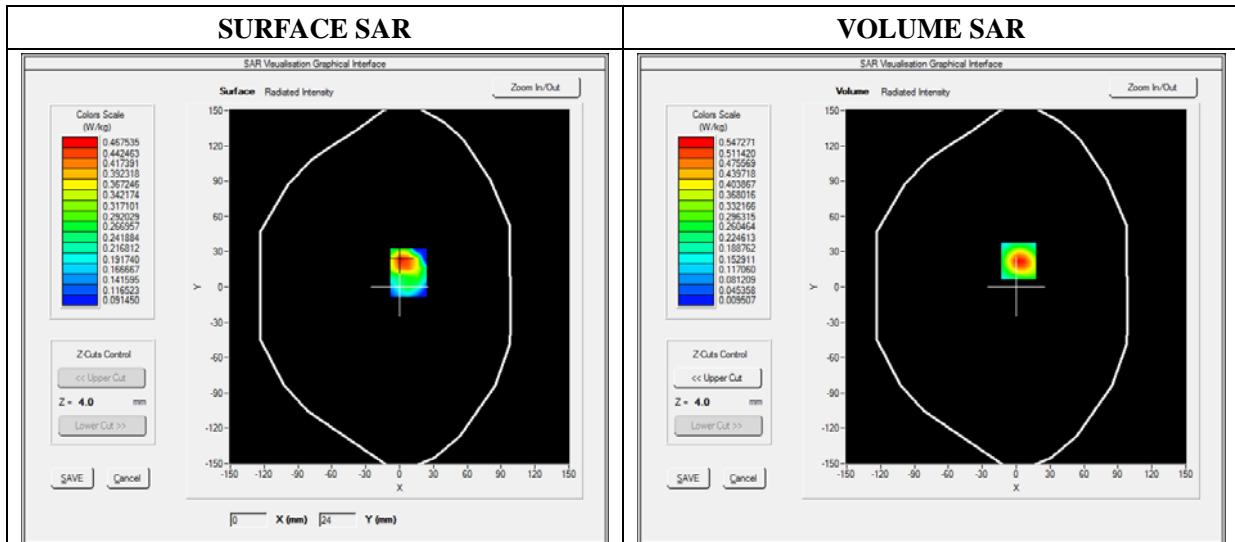
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat Plane
<b>Device Position</b>	Back
<b>Band</b>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	TDMA (Crest factor: 8.0)

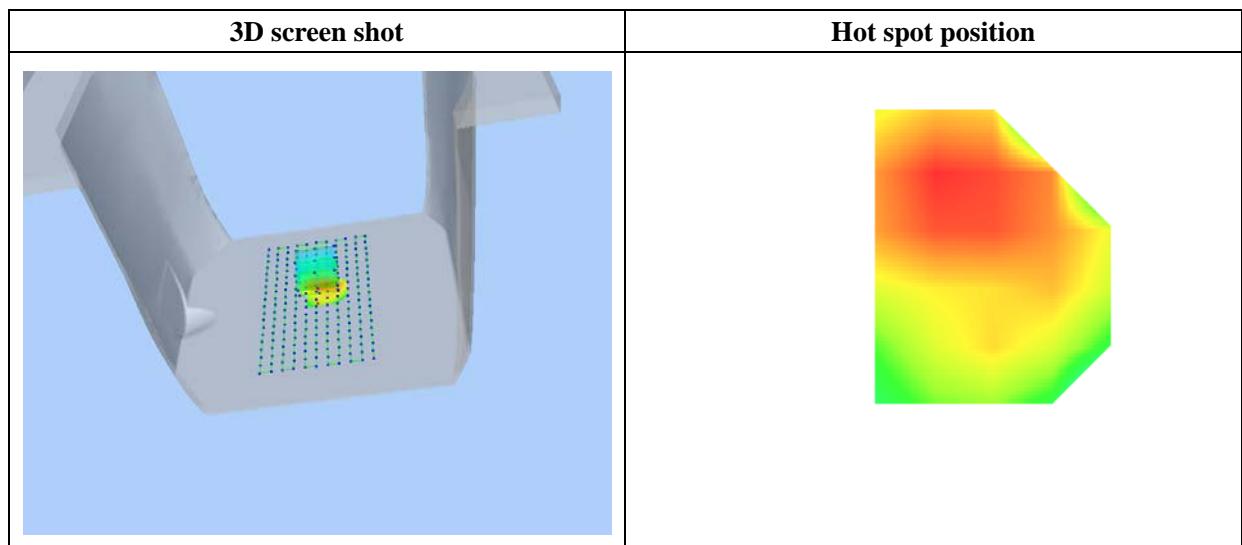
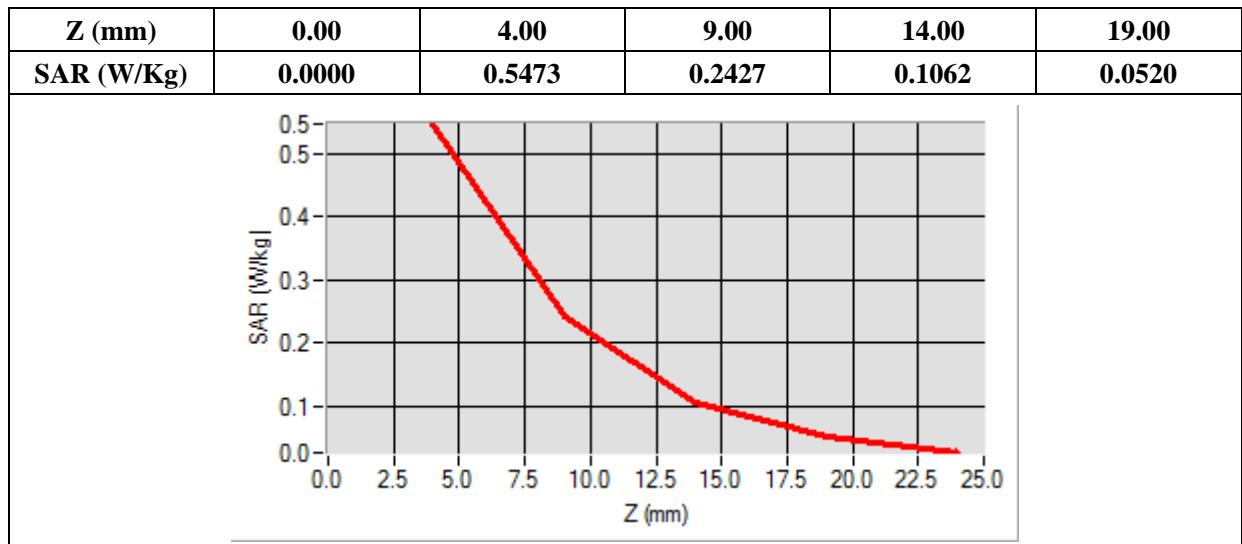
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1909.800000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=2.00, Y=22.00**

<b>SAR 10g (W/Kg)</b>	<b>0.275963</b>
<b>SAR 1g (W/Kg)</b>	<b>0.589218</b>



# MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

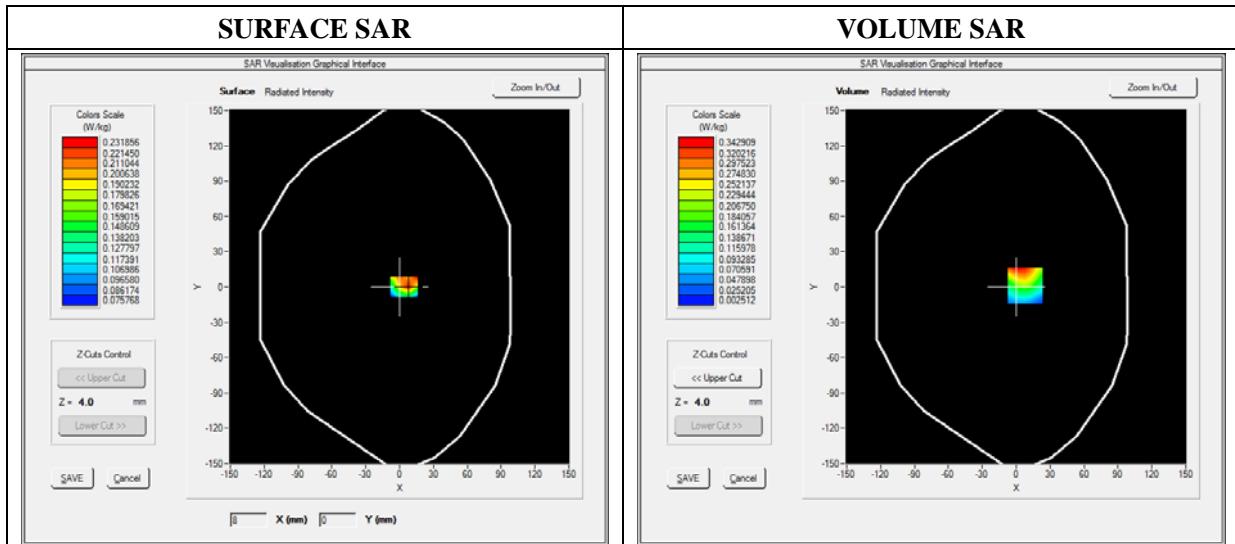
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat Plane
<b>Device Position</b>	Top
<b>Band</b>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	TDMA (Crest factor: 8.0)

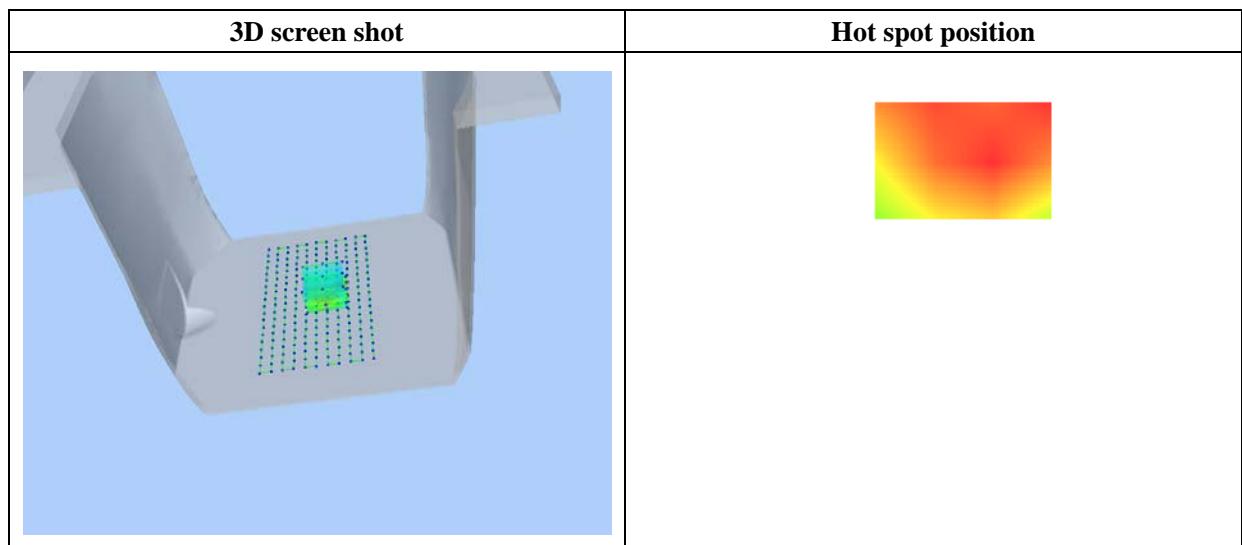
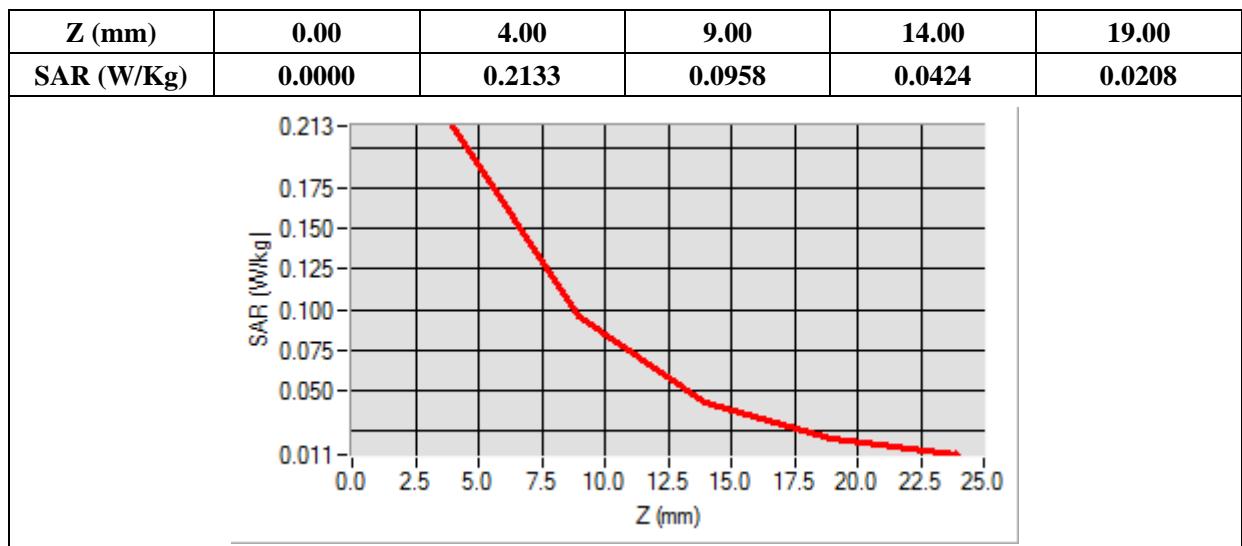
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1909.800000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=8.00, Y=1.00**

<b>SAR 10g (W/Kg)</b>	<b>0.156314</b>
<b>SAR 1g (W/Kg)</b>	<b>0.356324</b>



# MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

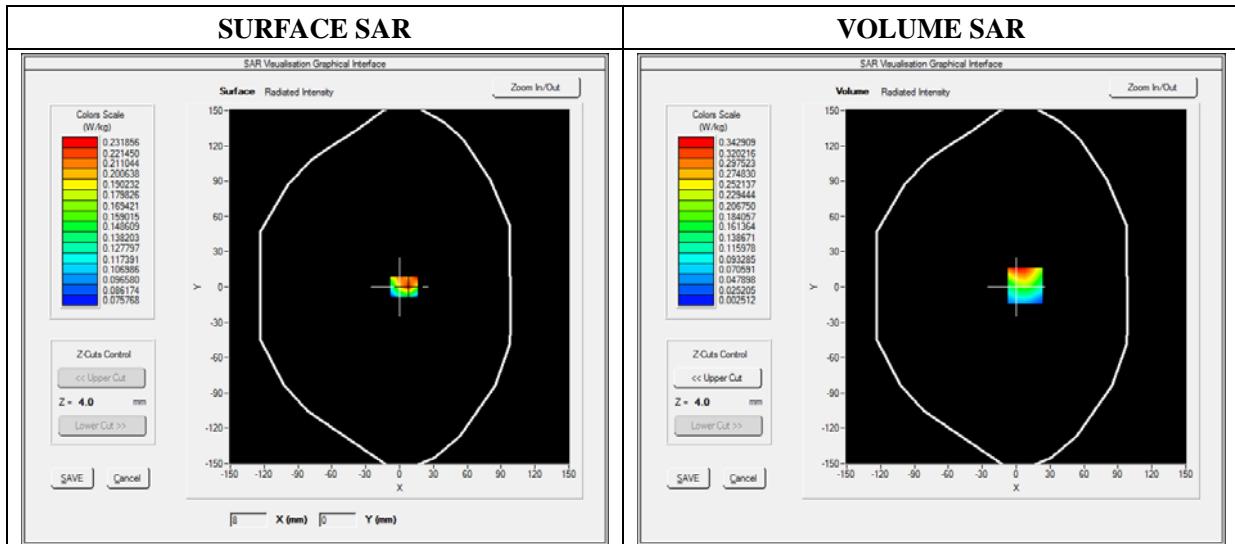
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat Plane
<b>Device Position</b>	Left
<b>Band</b>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	TDMA (Crest factor: 8.0)

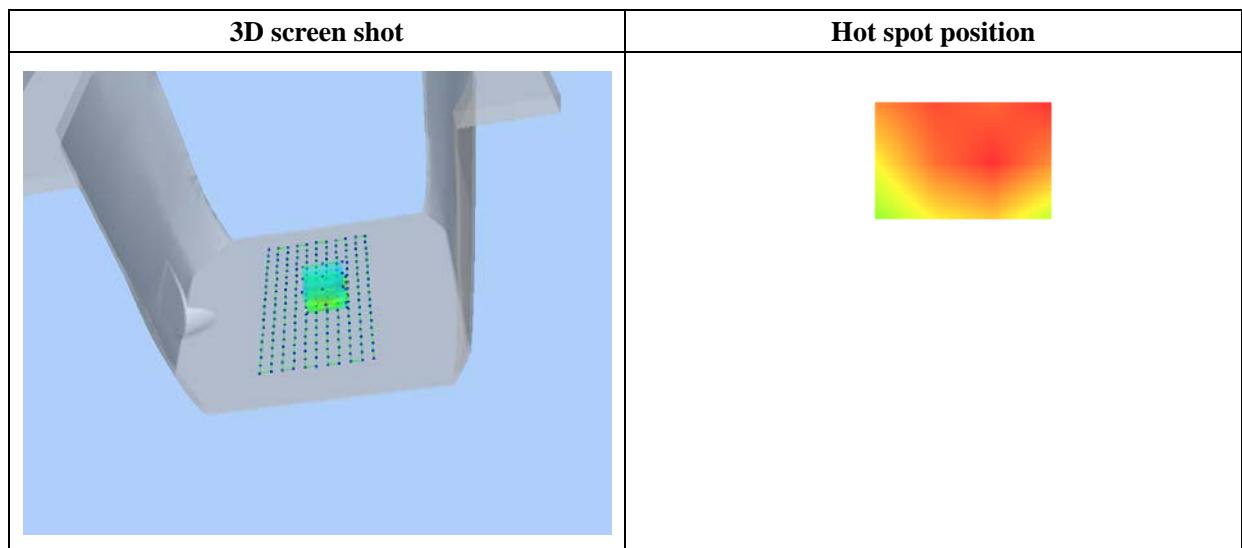
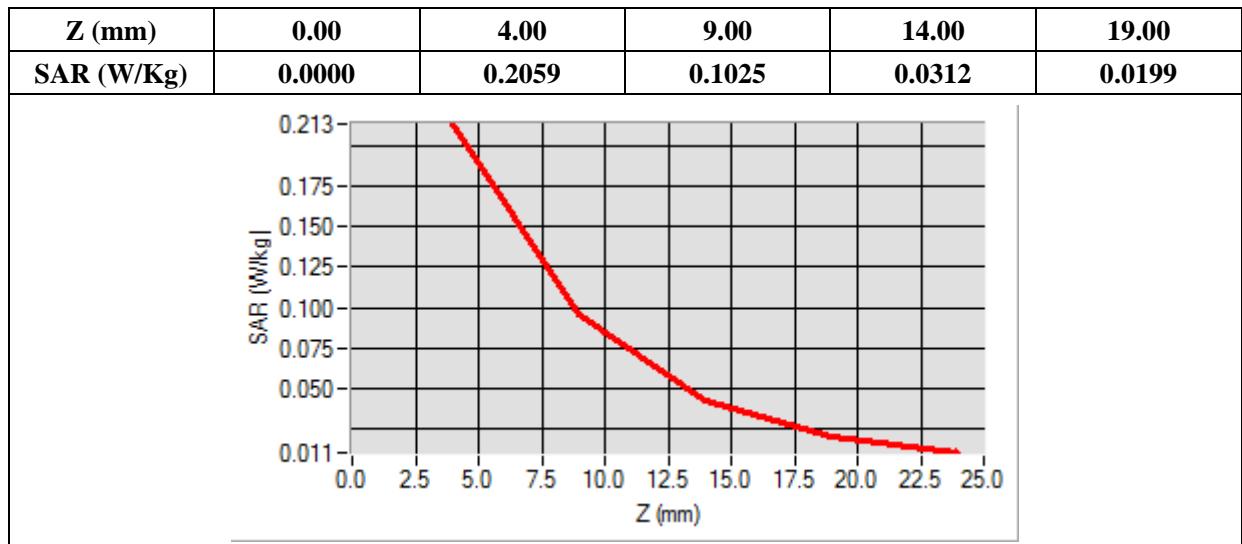
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1909.800000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=8.00, Y=1.00**

<b>SAR 10g (W/Kg)</b>	<b>0.124500</b>
<b>SAR 1g (W/Kg)</b>	<b>0.301250</b>



# MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

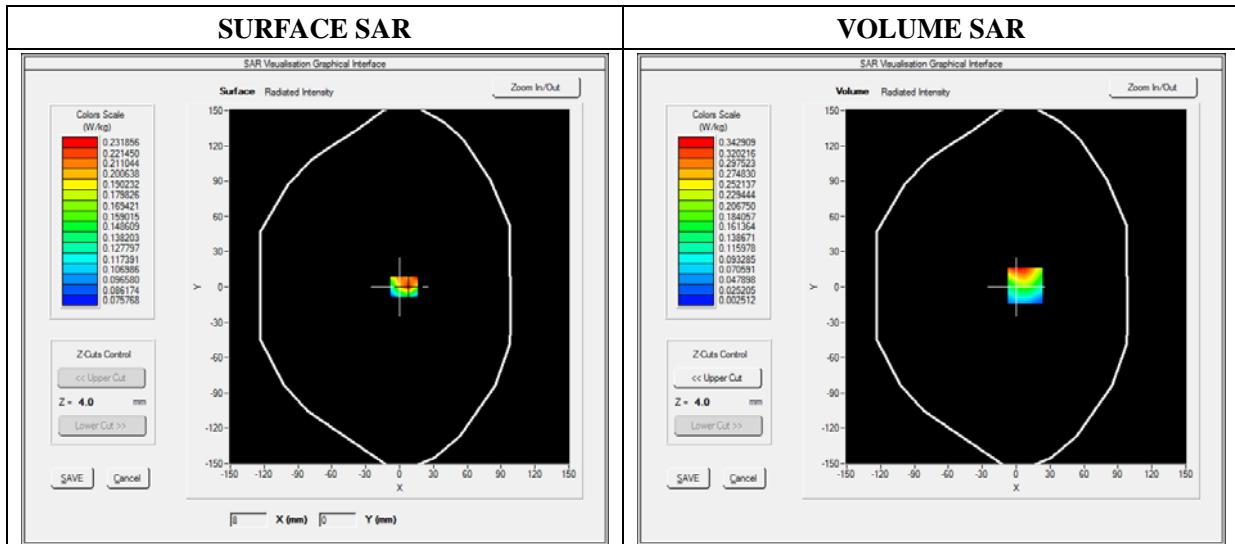
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat Plane
<b>Device Position</b>	Right
<b>Band</b>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	TDMA (Crest factor: 8.0)

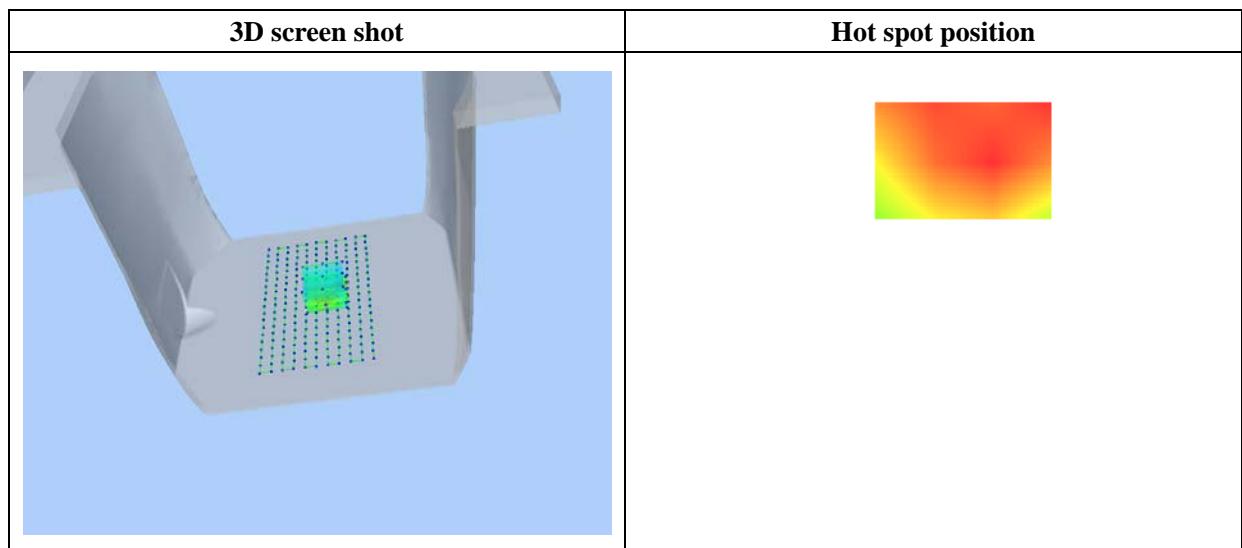
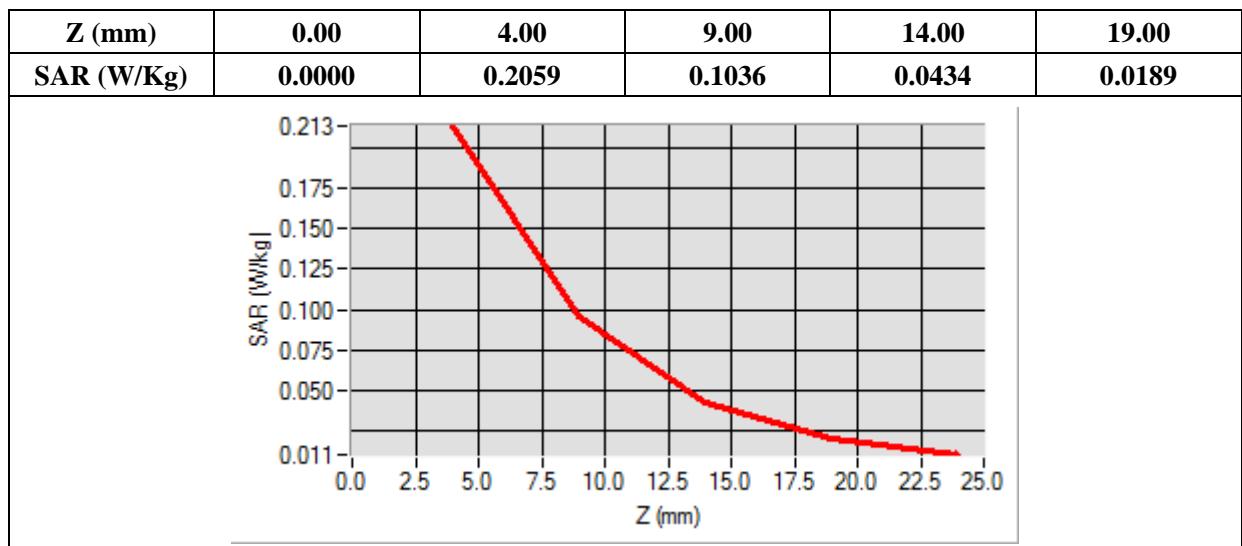
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1909.800000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=8.00, Y=1.00**

<b>SAR 10g (W/Kg)</b>	<b>0.102362</b>
<b>SAR 1g (W/Kg)</b>	<b>0.301921</b>



# MEASUREMENT 16

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

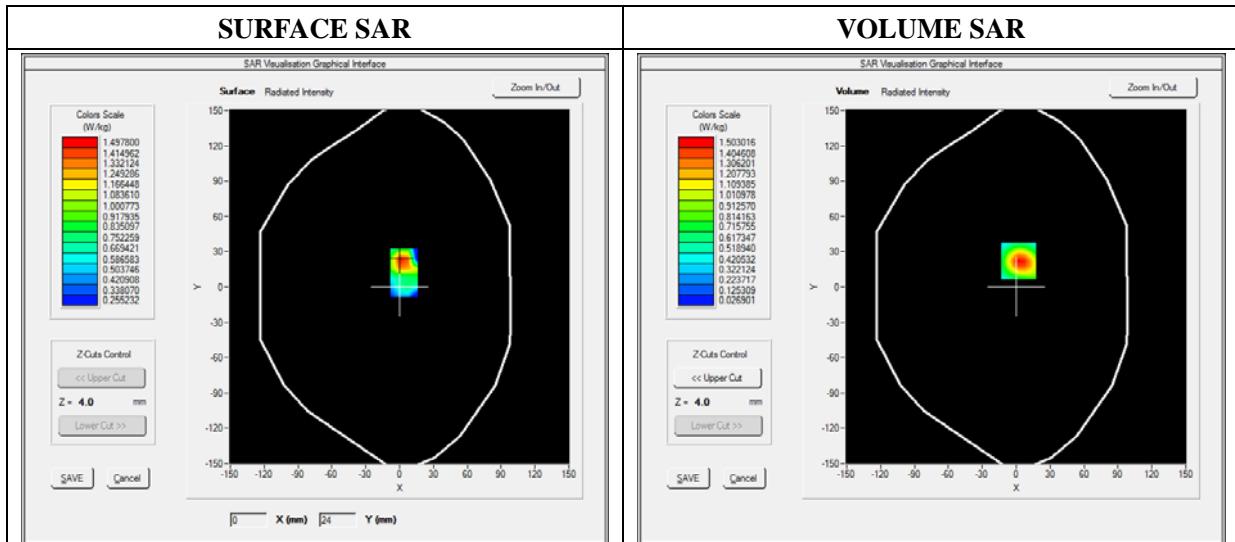
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat plane
<b>Device Position</b>	Front
<b>Band</b>	GPRS1900_4TX
<b>Channels</b>	Low
<b>Signal</b>	Duty Cycle: 3.00 (Crest factor: 3.00)

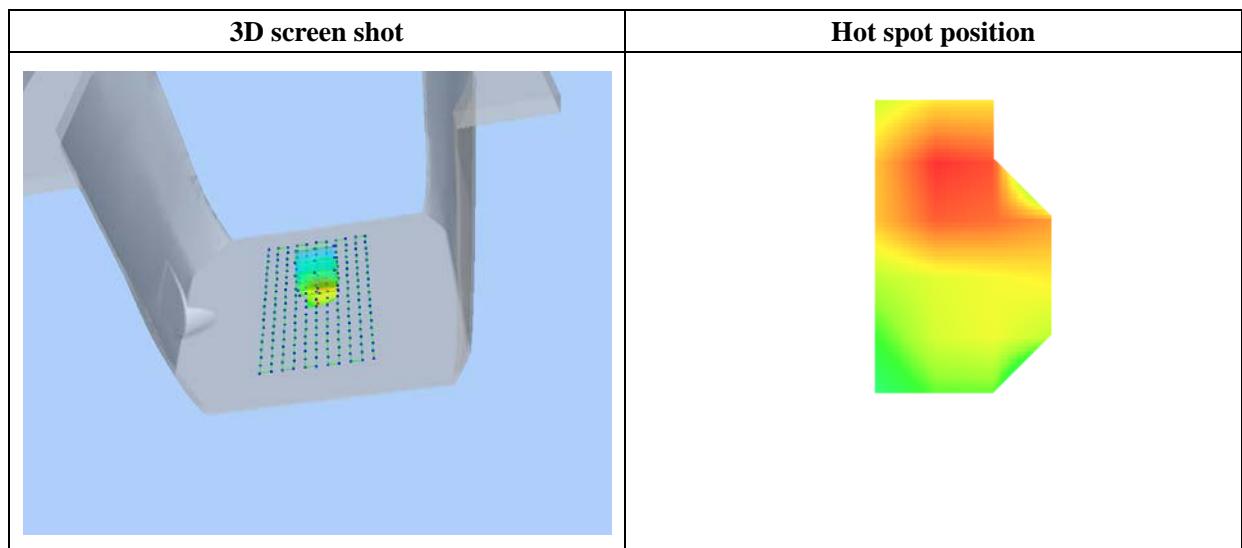
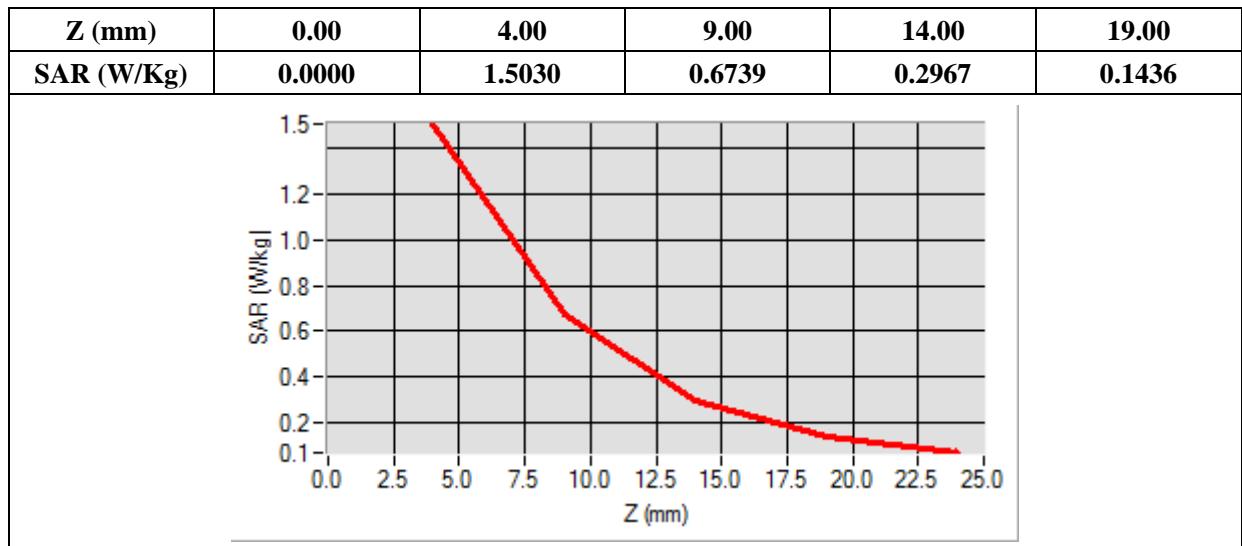
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1850.200000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



Maximum location: X=2.00, Y=22.00

<b>SAR 10g (W/Kg)</b>	<b>0.652060</b>
<b>SAR 1g (W/Kg)</b>	<b>1.281536</b>



# MEASUREMENT 17

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

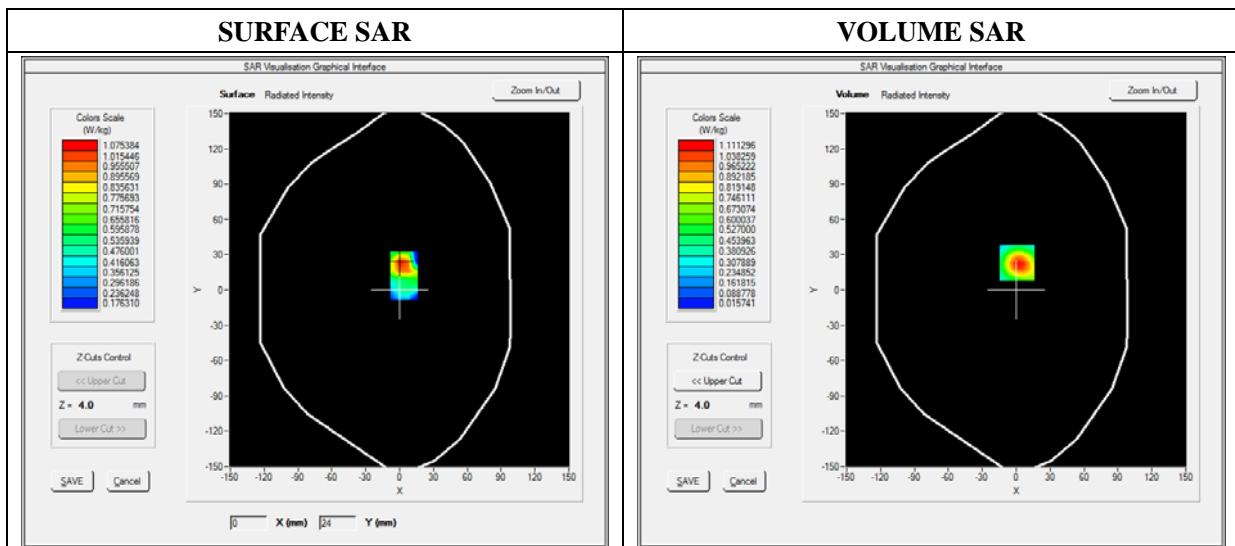
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

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

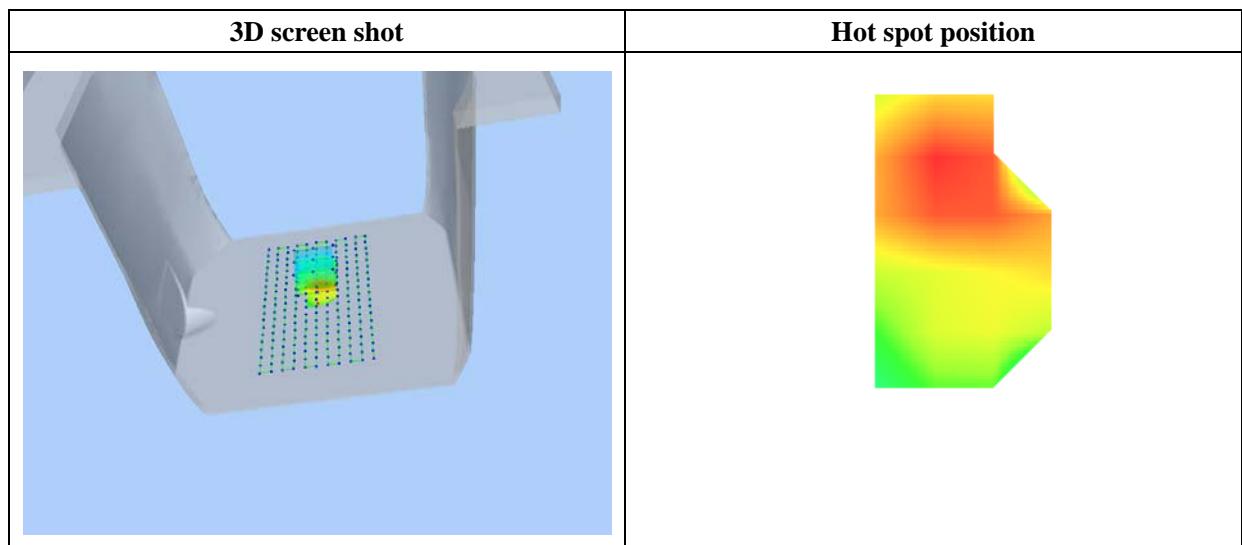
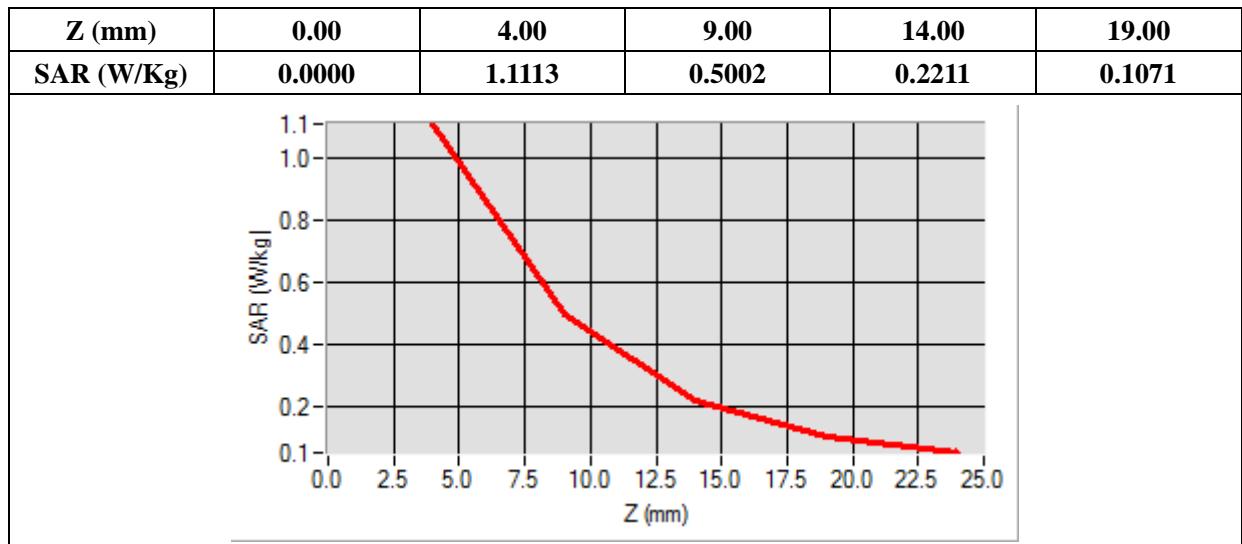
## B. SAR Measurement Results

Frequency (MHz)	1880.00000
Relative Permittivity (real part)	51.202000
Conductivity (S/m)	1.510200
Power Variation (%)	0.752100
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=23.00

<b>SAR 10g (W/Kg)</b>	<b>0.482169</b>
<b>SAR 1g (W/Kg)</b>	<b>1.029065</b>



# MEASUREMENT 18

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

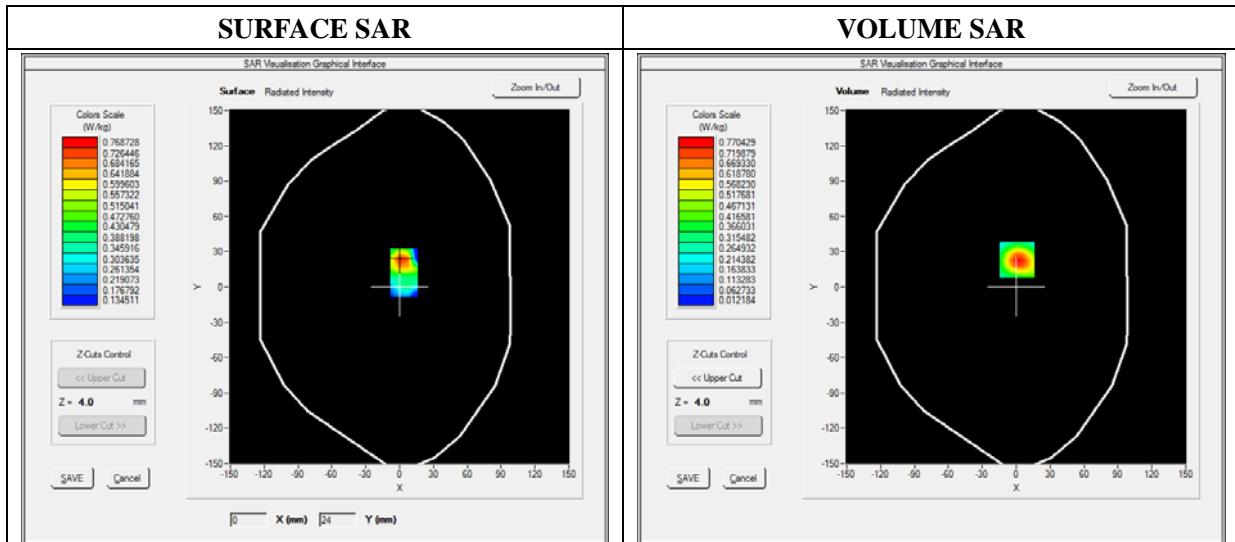
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

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

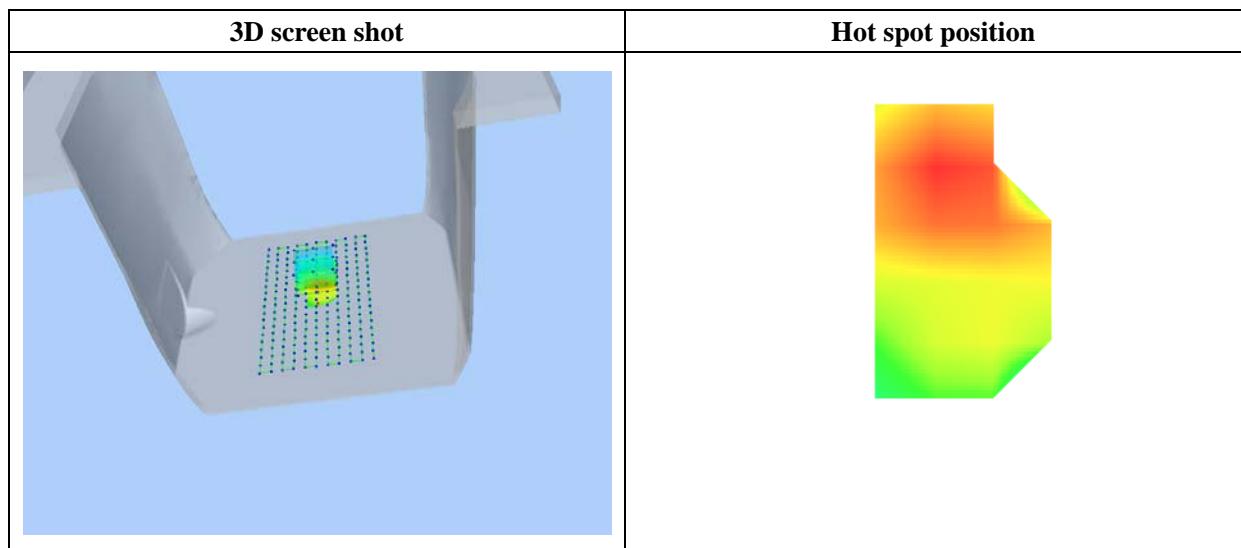
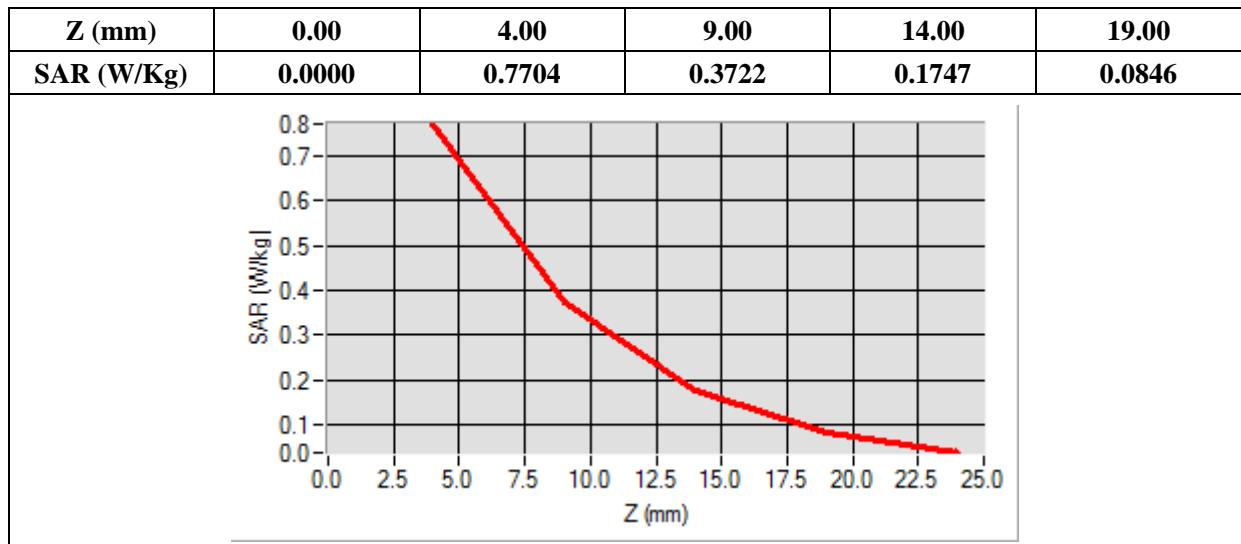
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1909.800000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



Maximum location: X=1.00, Y=23.00

<b>SAR 10g (W/Kg)</b>	<b>0.340527</b>
<b>SAR 1g (W/Kg)</b>	<b>0.706215</b>



# MEASUREMENT 19

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

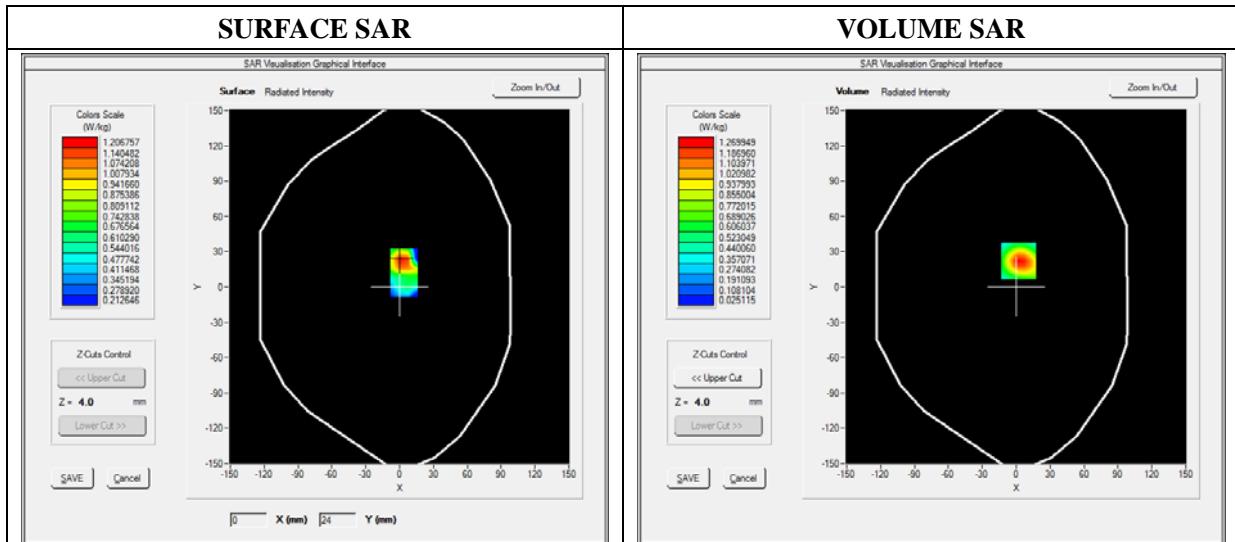
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

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

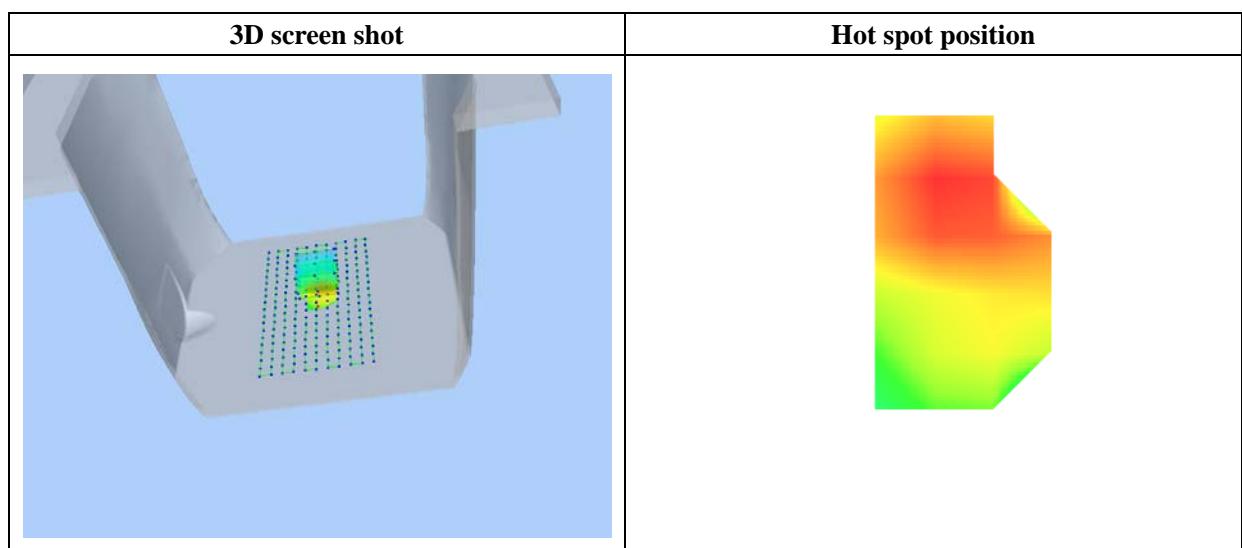
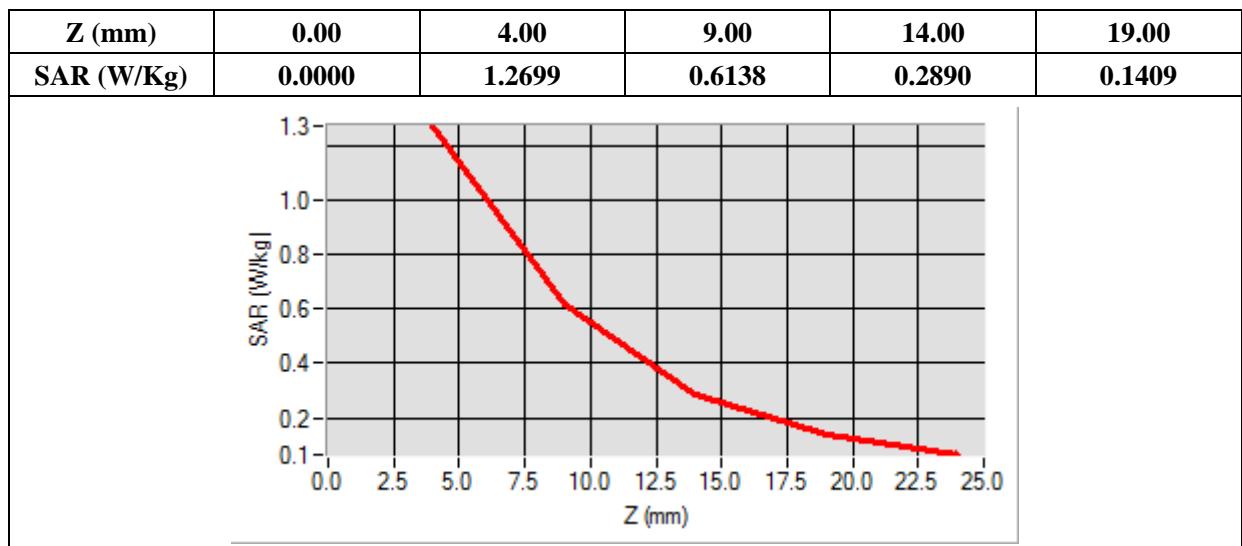
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1850.200000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



Maximum location: X=2.00, Y=22.00

<b>SAR 10g (W/Kg)</b>	<b>0.569086</b>
<b>SAR 1g (W/Kg)</b>	<b>1.168337</b>



# MEASUREMENT 20

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

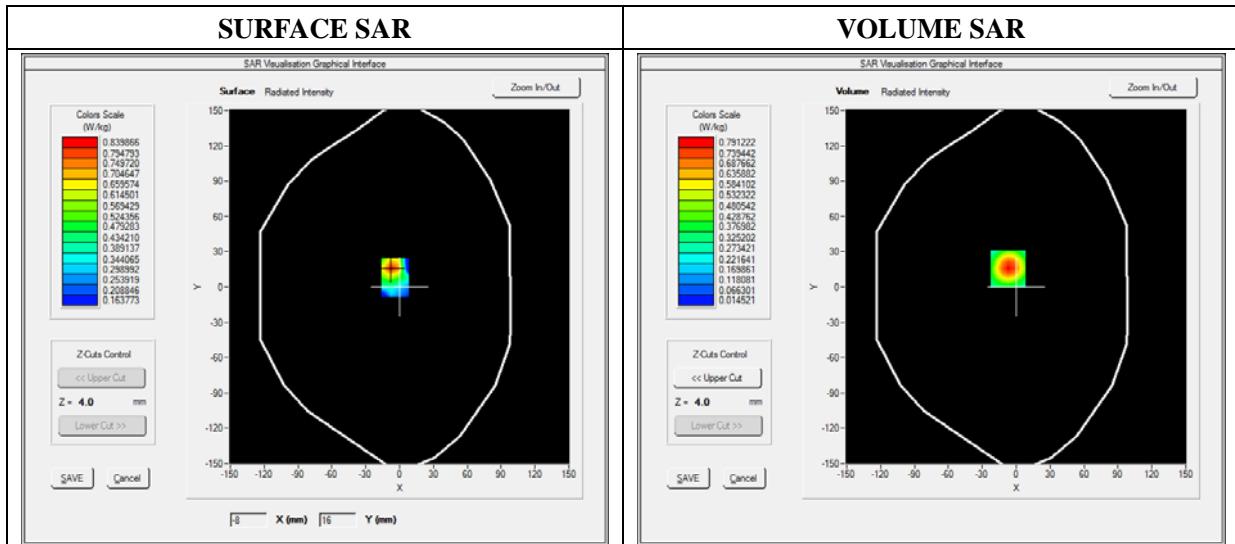
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

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

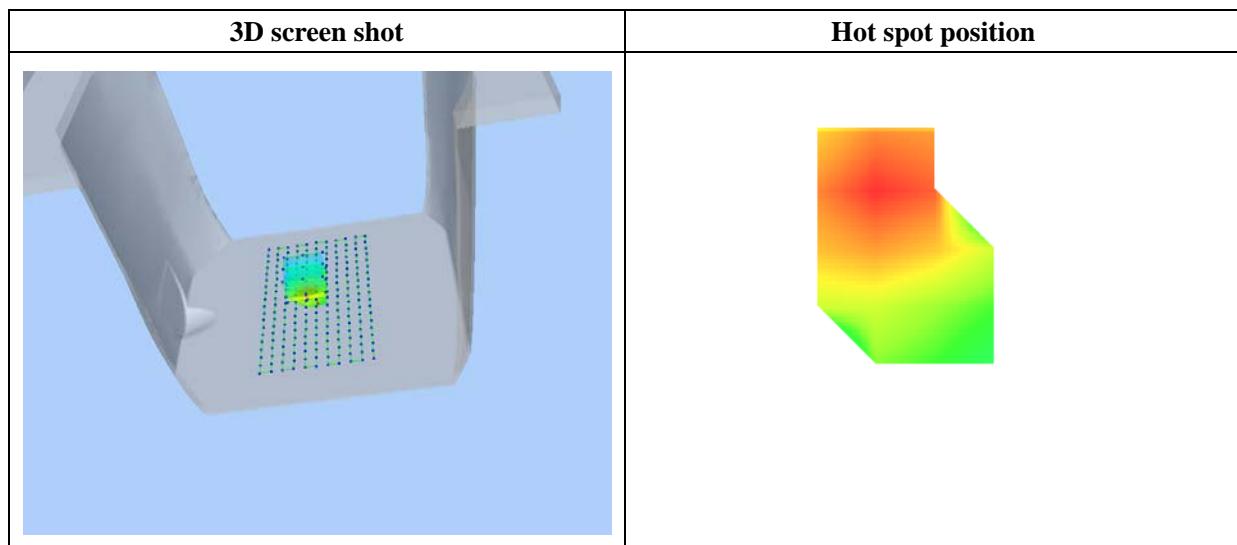
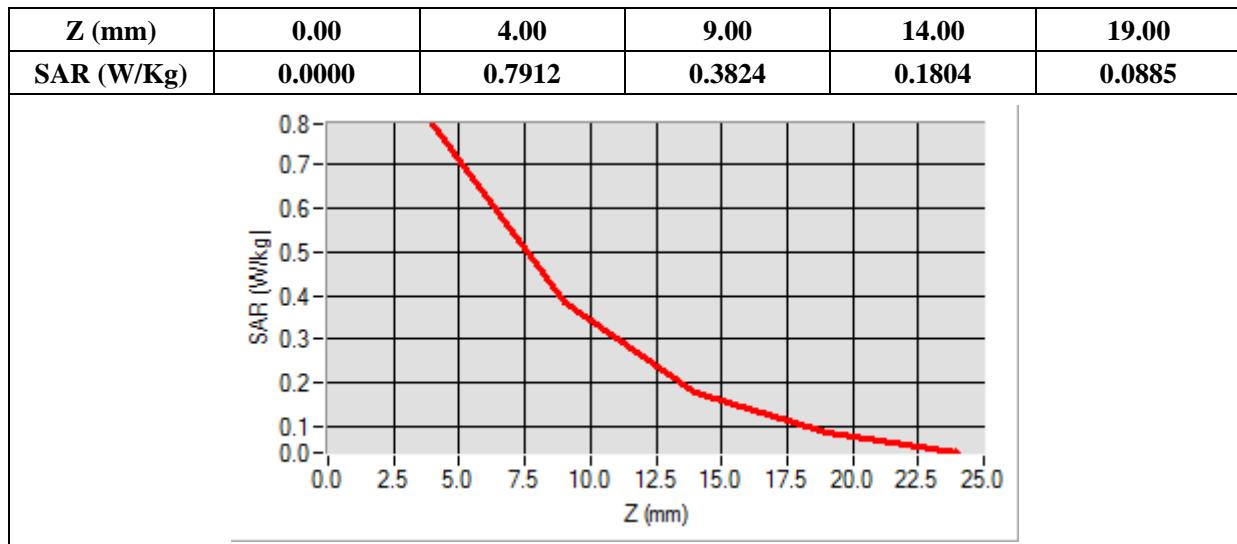
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1880.000000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=-7.00, Y=16.00**

<b>SAR 10g (W/Kg)</b>	<b>0.355126</b>
<b>SAR 1g (W/Kg)</b>	<b>0.725346</b>



# MEASUREMENT 21

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

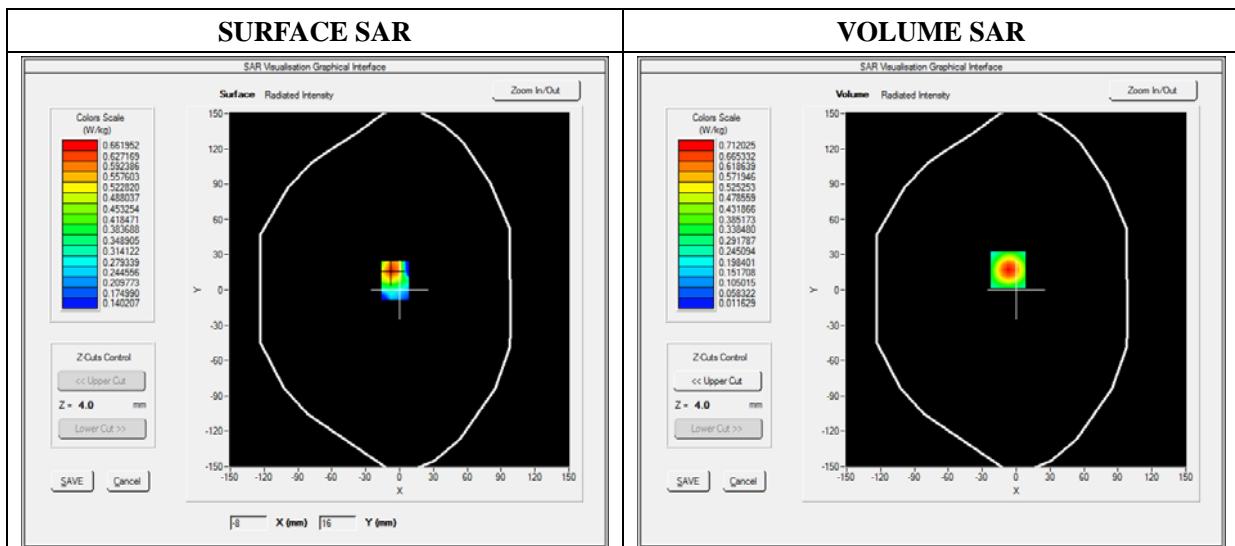
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

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

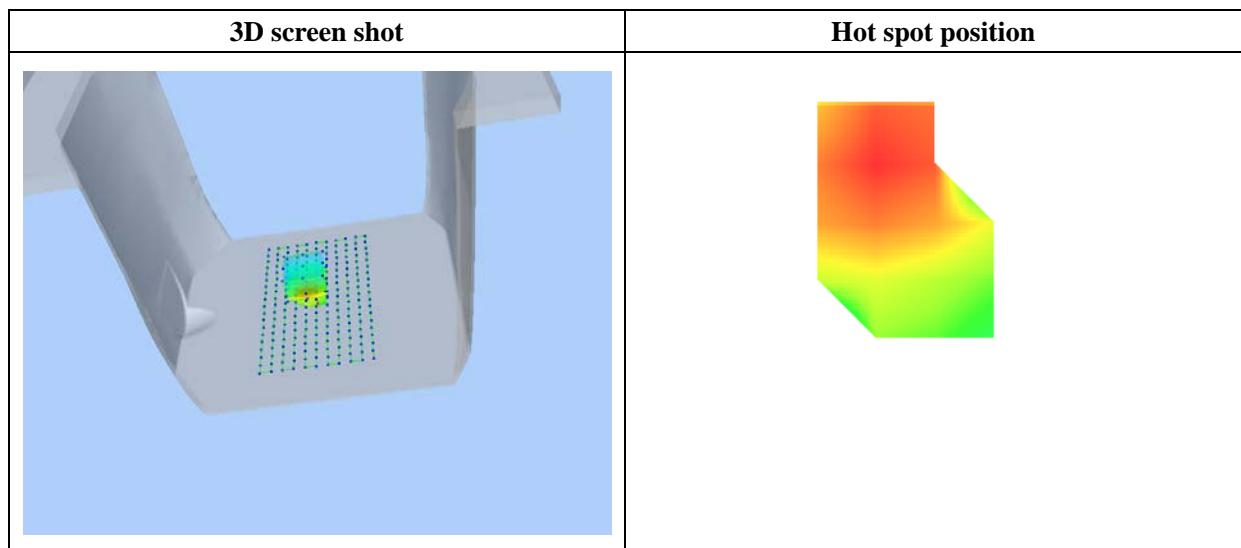
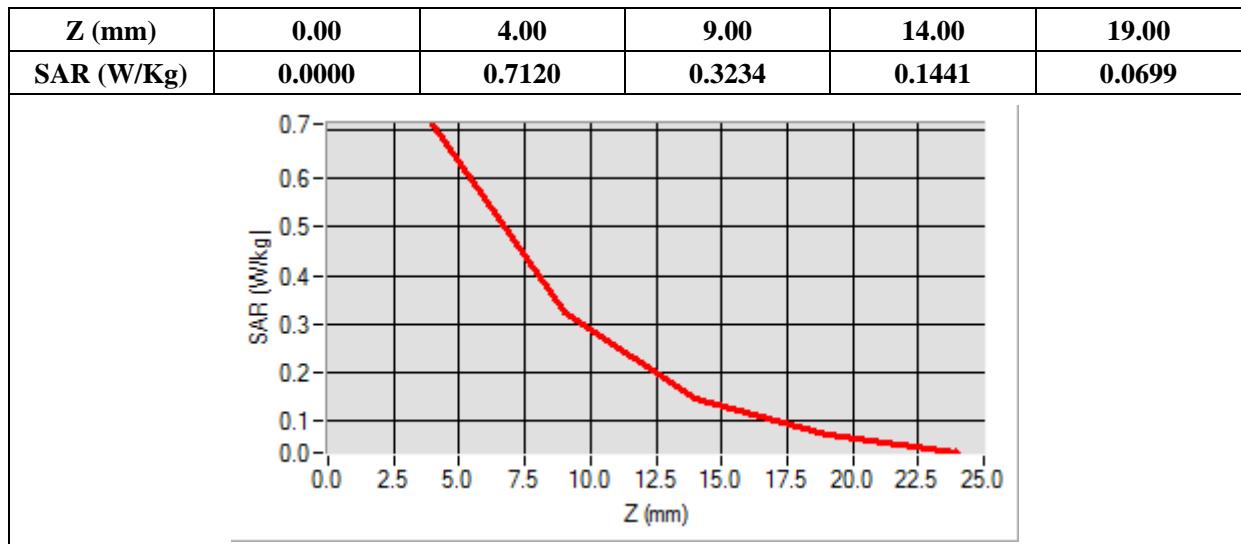
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1909.800000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=-7.00, Y=17.00**

<b>SAR 10g (W/Kg)</b>	<b>0.311184</b>
<b>SAR 1g (W/Kg)</b>	<b>0.653303</b>



# MEASUREMENT 22

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

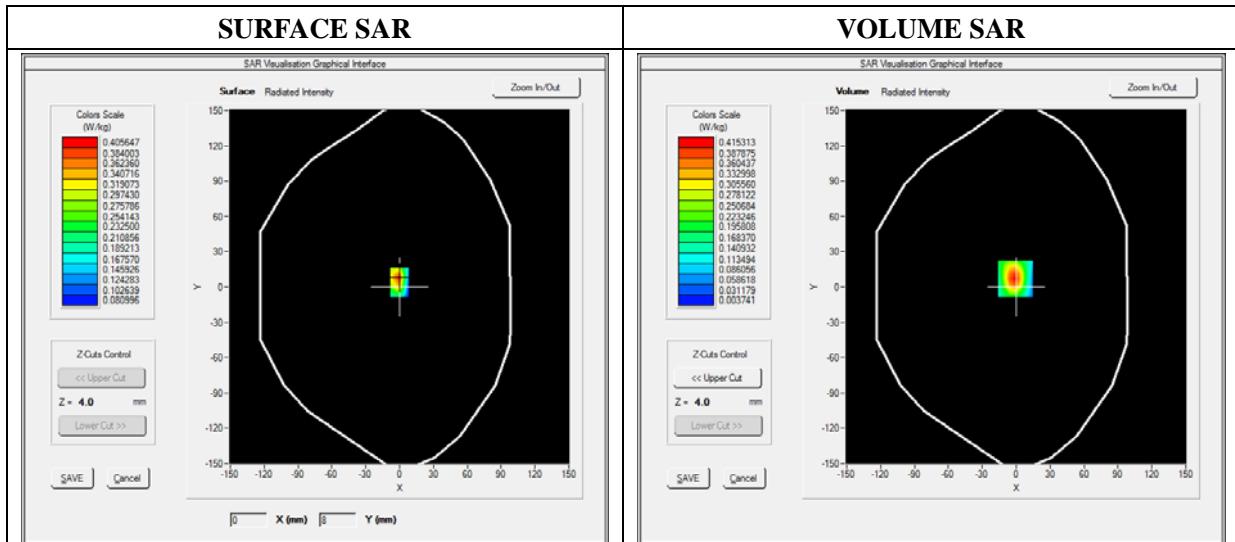
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat plane
<b>Device Position</b>	Top
<b>Band</b>	GPRS1900_4TX
<b>Channels</b>	Low
<b>Signal</b>	Duty Cycle: 3.00 (Crest factor: 3.00)

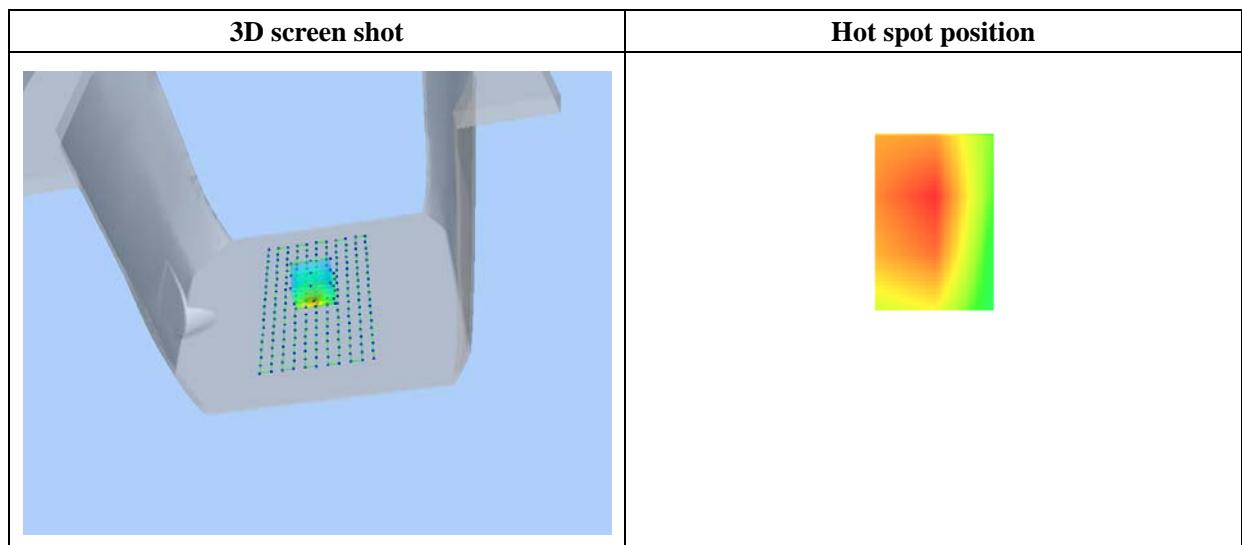
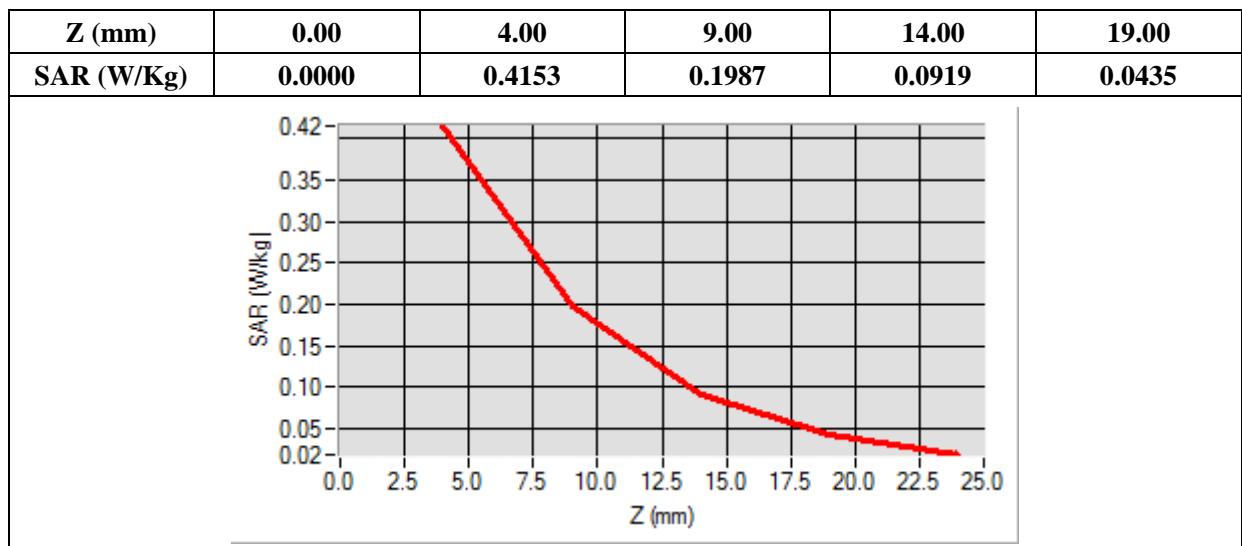
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1850.200000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



**Maximum location: X=-1.00, Y=7.00**

<b>SAR 10g (W/Kg)</b>	<b>0.169458</b>
<b>SAR 1g (W/Kg)</b>	<b>0.372720</b>



# MEASUREMENT 23

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

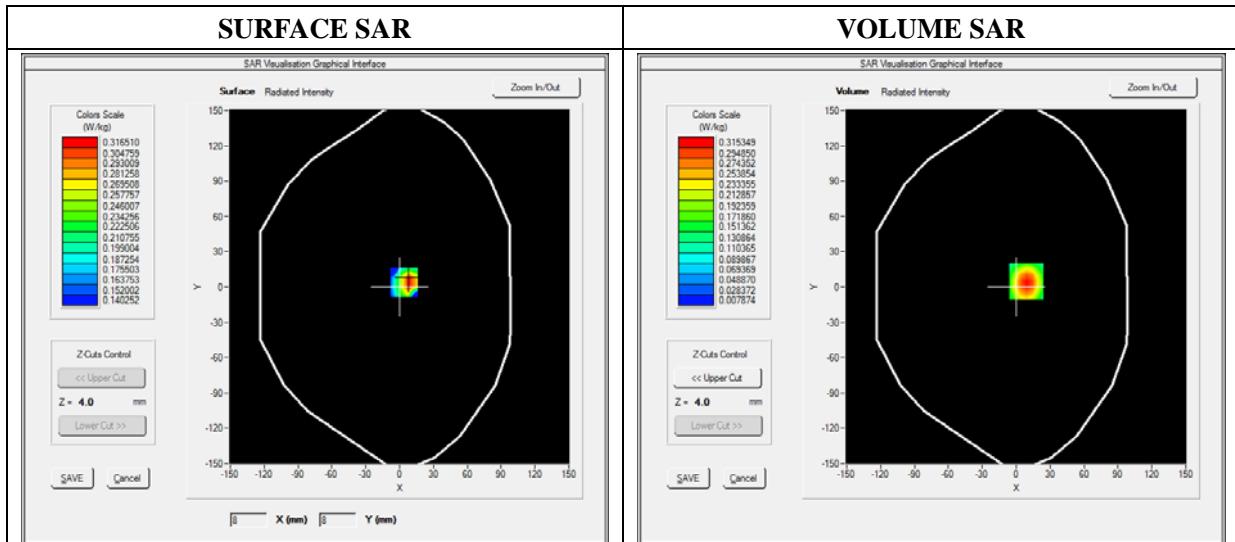
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat plane
<b>Device Position</b>	Left
<b>Band</b>	GPRS1900_4TX
<b>Channels</b>	Low
<b>Signal</b>	Duty Cycle: 3.00 (Crest factor: 3.00)

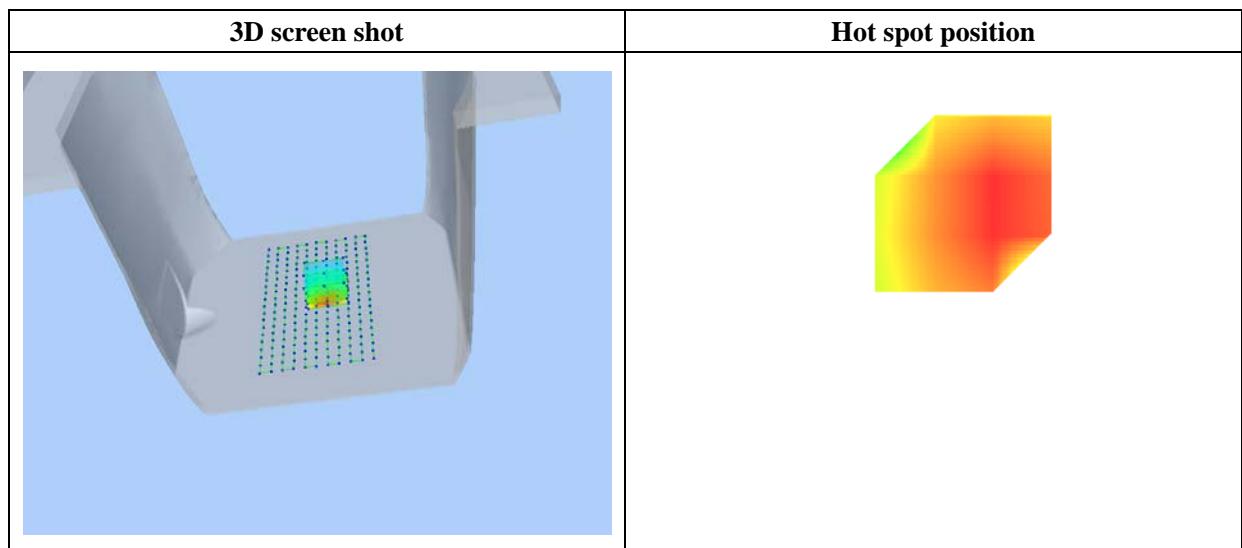
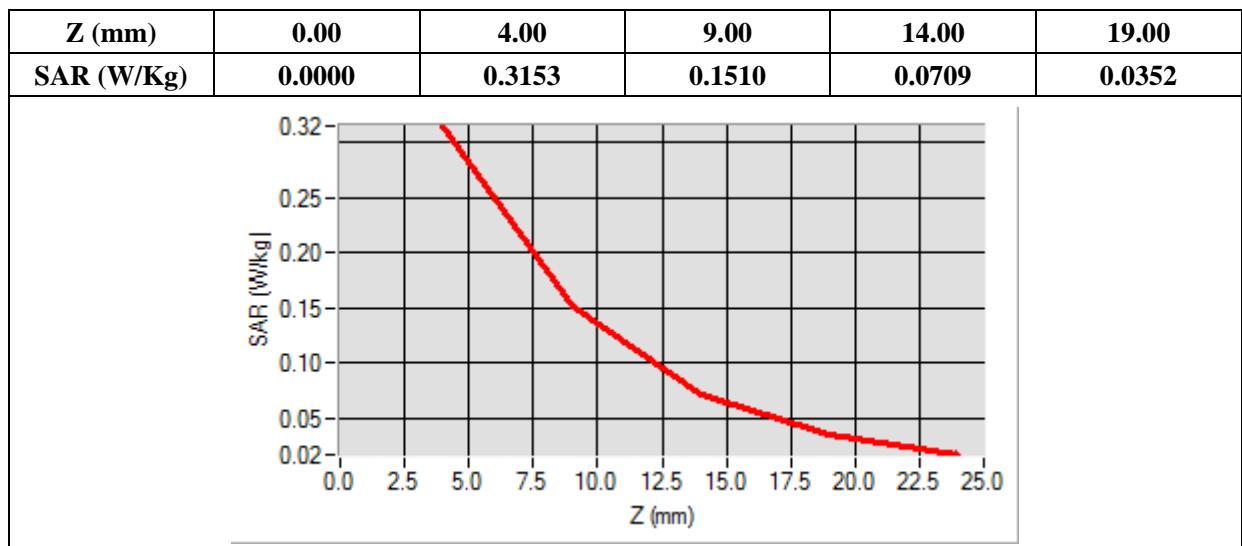
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1850.200000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



Maximum location: X=9.00, Y=5.00

<b>SAR 10g (W/Kg)</b>	<b>0.146688</b>
<b>SAR 1g (W/Kg)</b>	<b>0.292068</b>



# MEASUREMENT 24

Type: Phone measurement (Complete)

Date of measurement: 05/08/2014

Measurement duration: 12 minutes 3 seconds

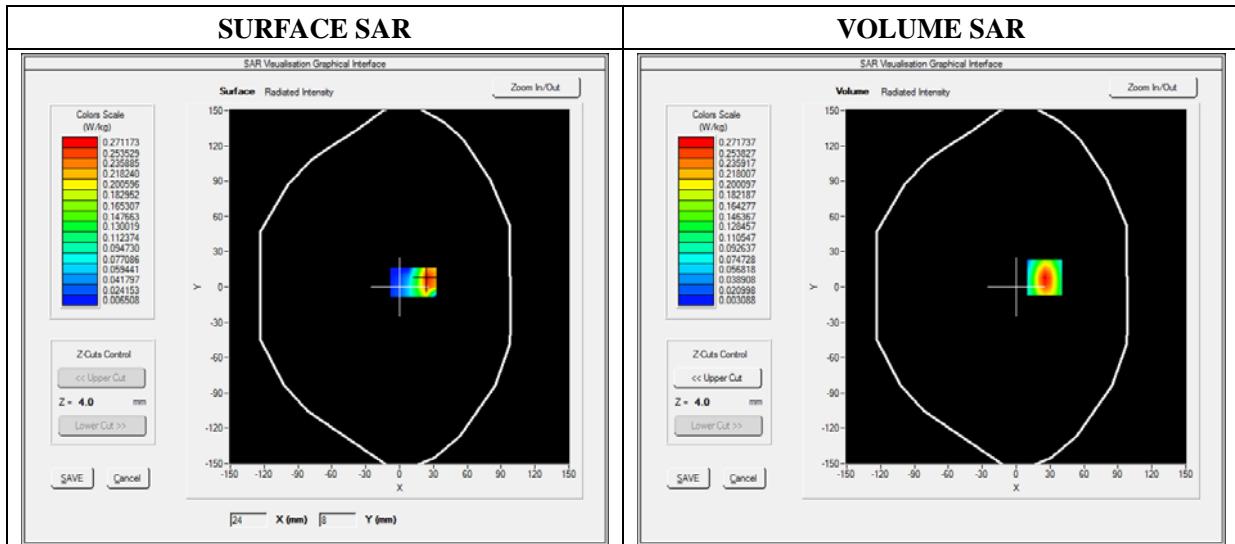
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.30; Calibrated: 03/21/2014

## A. Experimental conditions

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Phantom</b>	Flat plane
<b>Device Position</b>	Right
<b>Band</b>	GPRS1900_4TX
<b>Channels</b>	Low
<b>Signal</b>	Duty Cycle: 3.00 (Crest factor: 3.00)

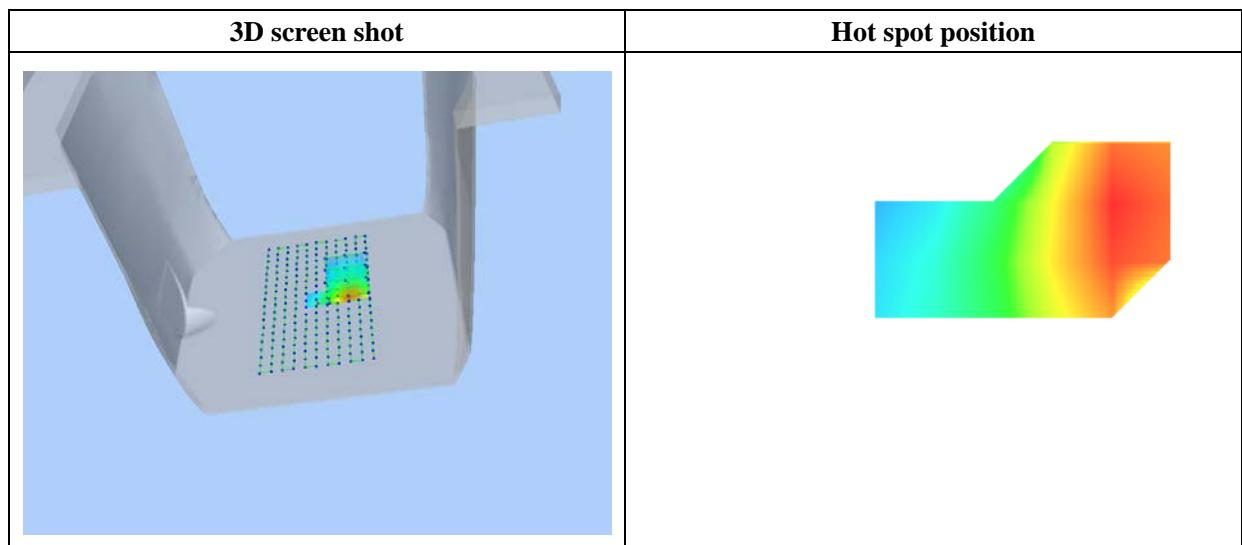
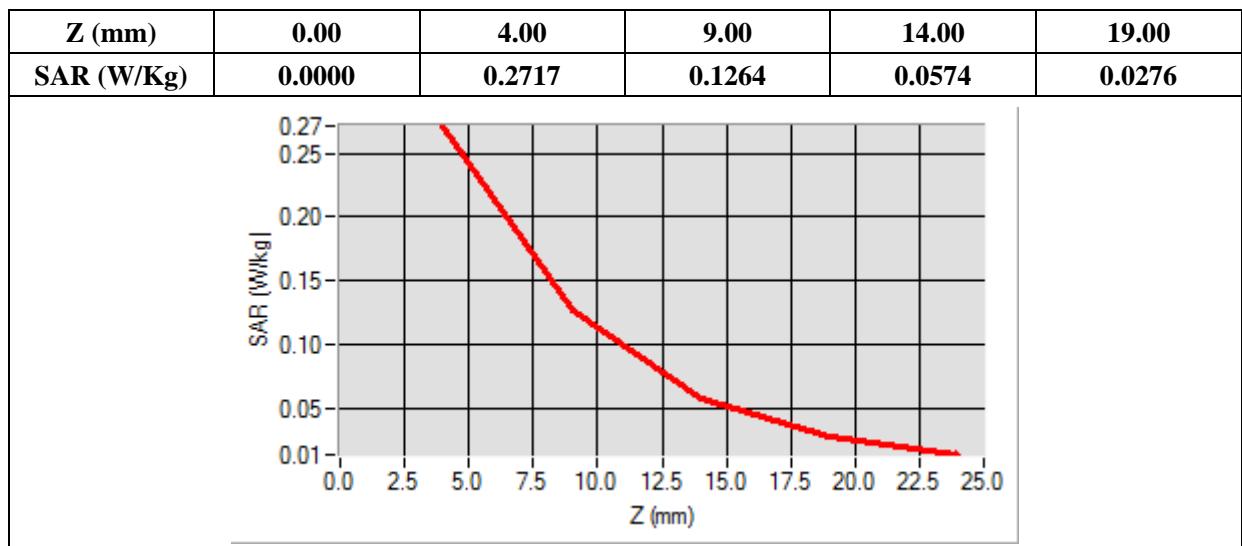
## B. SAR Measurement Results

<b>Frequency (MHz)</b>	1850.200000
<b>Relative Permittivity (real part)</b>	51.202000
<b>Conductivity (S/m)</b>	1.510200
<b>Power Variation (%)</b>	0.752100
<b>Ambient Temperature</b>	21.1
<b>Liquid Temperature</b>	21.3



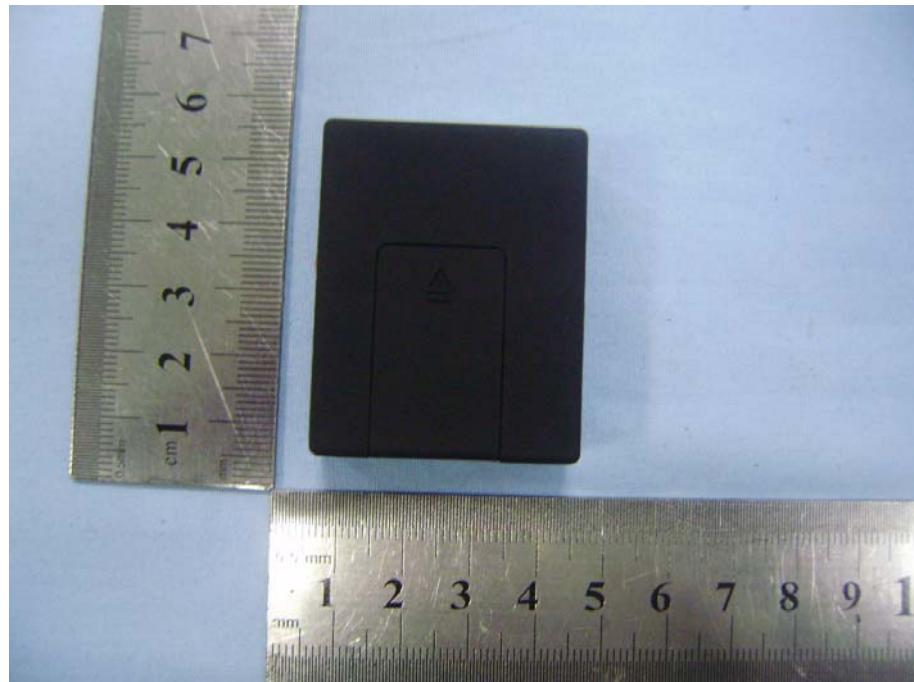
Maximum location: X=25.00, Y=8.00

<b>SAR 10g (W/Kg)</b>	<b>0.118472</b>
<b>SAR 1g (W/Kg)</b>	<b>0.248284</b>

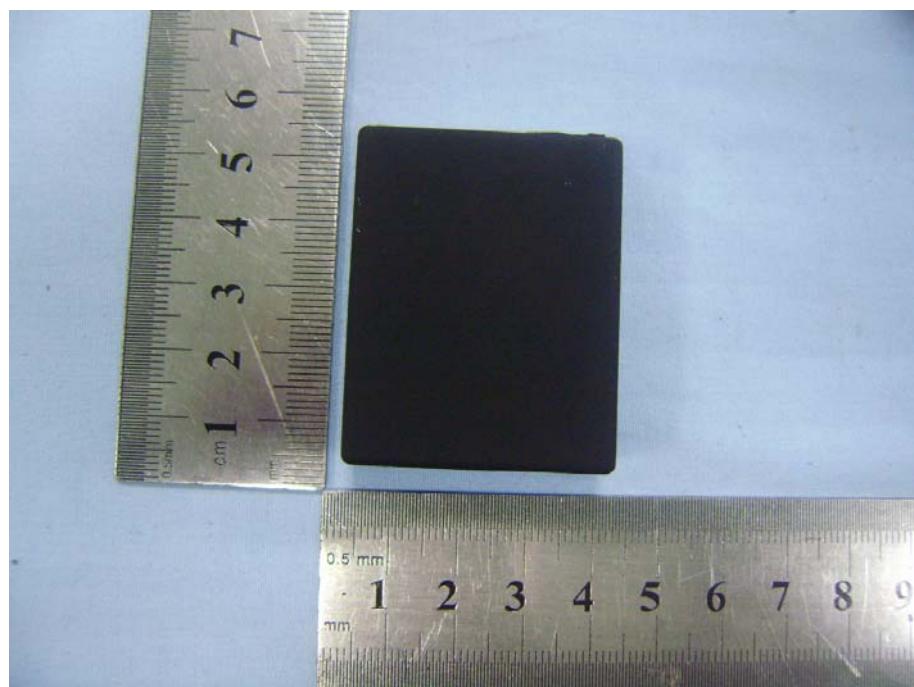


## Annex C. EUT Photos

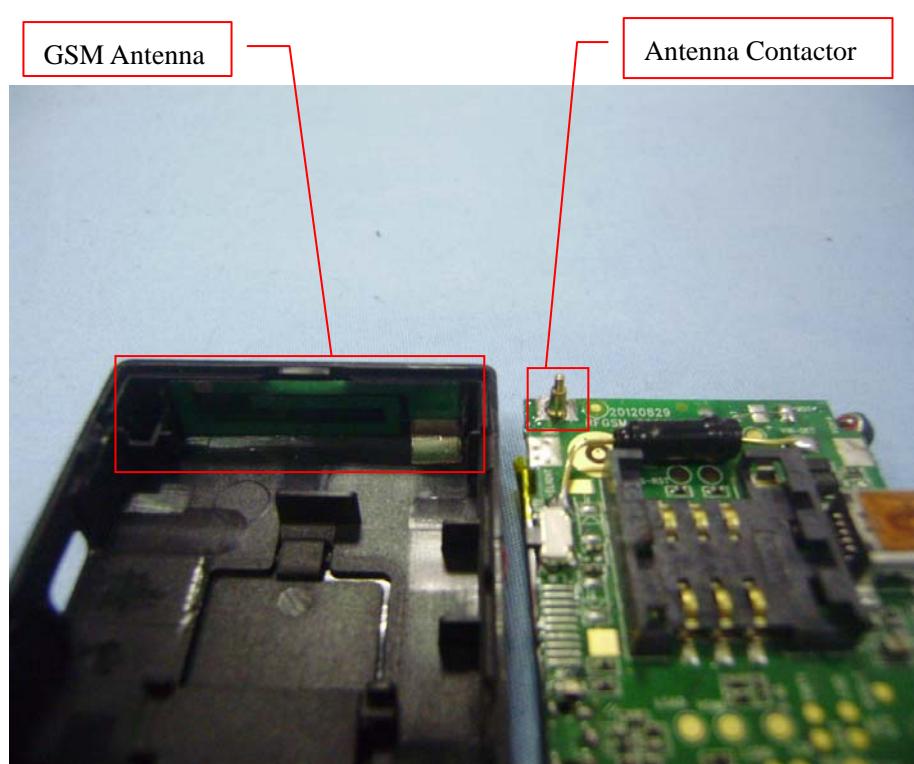
### EUT View\_Front



### EUT View\_Back



**Antenna View**



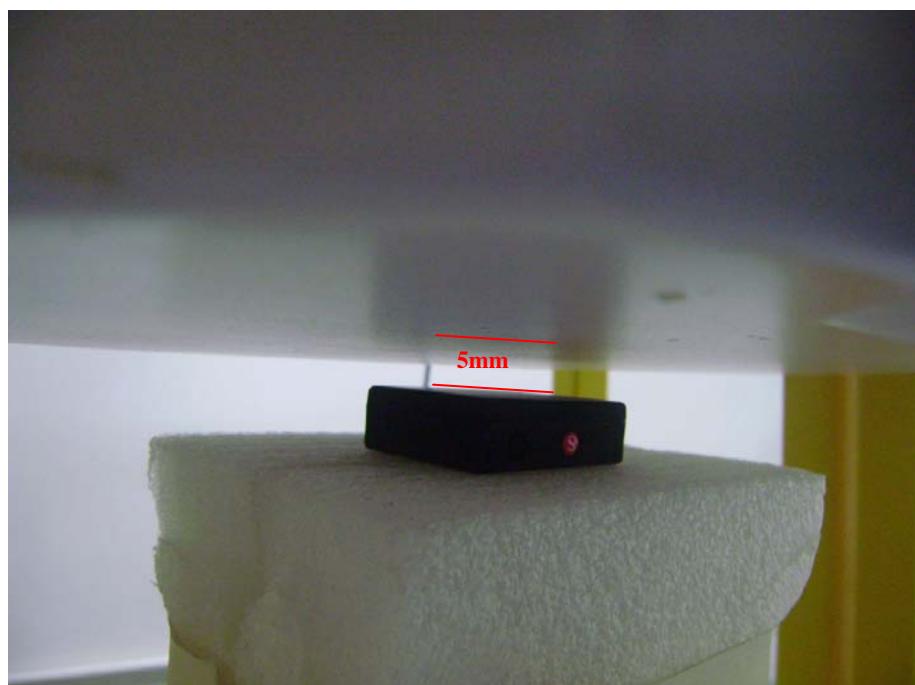
## Annex D. Test Setup Photos

### Test View 1

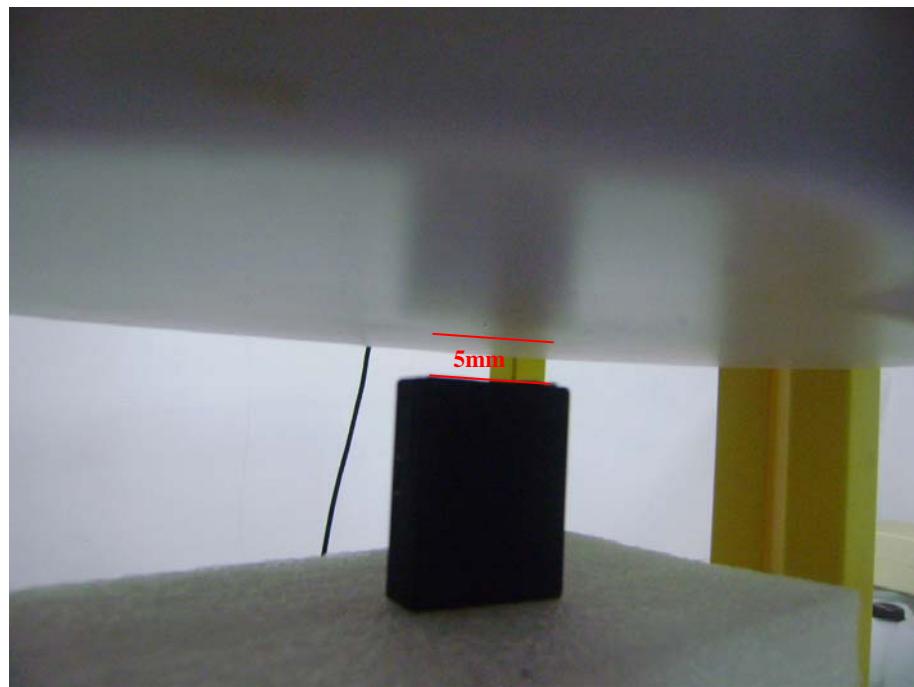
**Body Front**



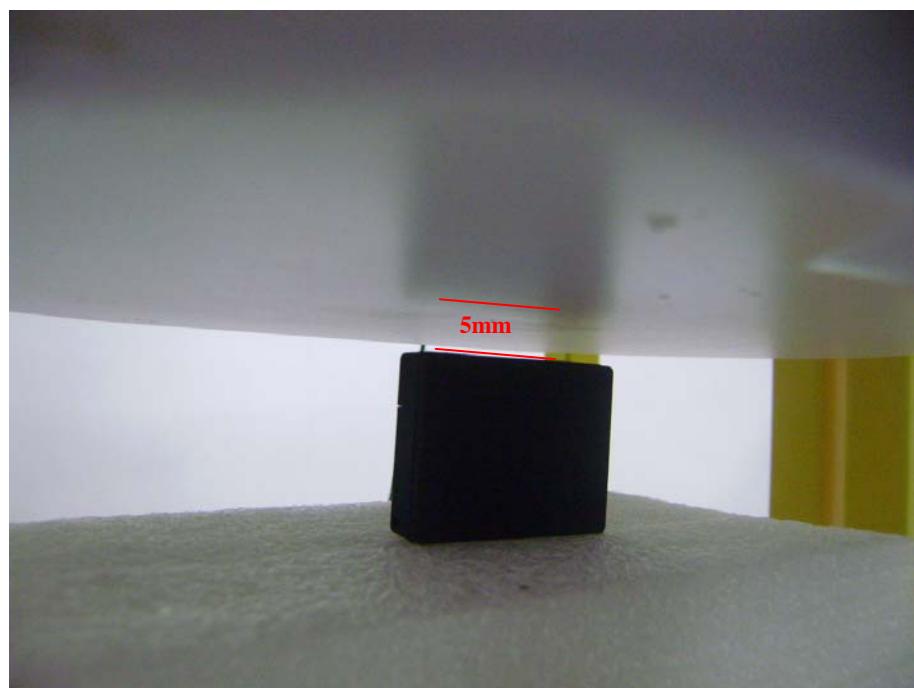
**Body Back**



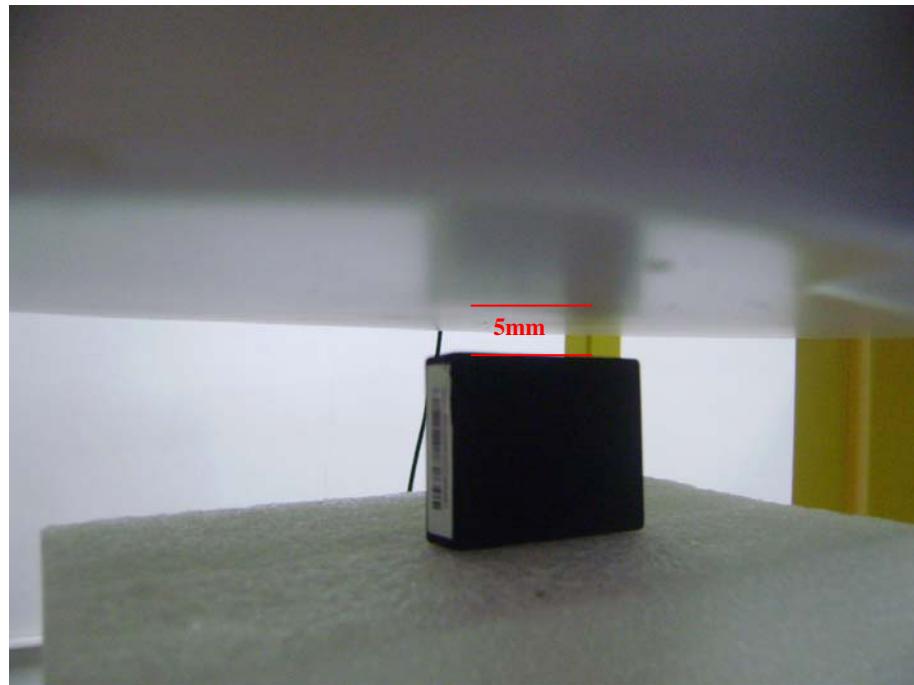
**Body Top**



**Body Right**



**Body Left**



## Annex E. Calibration Certificate

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*Please refer to the exhibit for the calibration certificate*

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