

FCC SAR

Measurement and Test Report

For

HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED

Unit D. 16F, Chenknang plaza 250 Hennessy Road, wanchai HongKong

FCC ID: 2AC88-G2

Test Standards:	FCC Part 2.1093 ANSI / IEEE C95.1 :2005 ANSI / IEEE C95.3 :2002 <u>IEEE 1528 :2013</u>
Product Description:	<u>4G Free Roaming Hotspot</u>
Tested Model:	<u>G2</u>
Report No.:	<u>STRD1506066H</u>
Tested Date:	<u>2015-06-12 to 2015-07-02</u>
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permission 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: HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED
Address of applicant: Unit D. 16F, Chenknang plaza 250 Hennessy Road, wanchai HongKong

Manufacturer: Shenzhen Ukelink New Technology co., Ltd
Address of manufacturer: 3rd Floor, A Part of Building 1, Shenzhen Software Industry Base, Nanshan district xuefu Road, Shenzhen City, Guangdong Province, P.R. China

General Description of EUT	
Product Name:	4G Free Roaming Hotspot
Brand Name:	GlocalMe
Model No.:	G2
Hardware version:	G2A_Main_Rev1.1
Software version:	G2_HTSV1.1.001.017.150804
Rated Voltage:	DC 3.7V Li-ion Battery
Battery:	6000mAh
Device Category:	Portable Device
Main board:	
<i>The EUT Main board support GSM850/900/DCS1800/PCS1900, WCDMA Band 1/2/5/8, LTE Band 1/3/5/7/8/17/20/39/40/41 function. It is intended for speech, Multimedia Message Service (MMS) transmission and 4G free roaming hotspot. It is equipped with GPRS/EDGE class 12 for GSM850/900/DCS1800/PCS1900, GPS, Bluetooth and Wi-Fi functions. For more information see the following datasheet</i>	
Vice board:	
<i>The EUT Vice board support GSM850/900/DCS1800/PCS1900, WCDMA Band 1/2/5/8. It is intended for system localization. It is equipped with GPRS/EDGE class 12 for GSM850/900/DCS1800/PCS1900 functions. For more information see the following datasheet</i>	
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT: Main board	
2G	
Support Networks:	GSM, GPRS, EDGE
Support Band:	GSM850/PCS1900
Uplink Frequency:	GSM/GPRS/EDGE 850: 824~849MHz GSM/GPRS/EDGE 1900: 1850~1910MHz
Downlink Frequency:	GSM/GPRS/EDGE 850: 869~894MHz GSM/GPRS/EDGE 1900: 1930~1990MHz
Max RF Output Power:	GSM850: 31.80dBm, GSM1900: 29.60dBm EDGE850: 25.70dBm, EDGE1900: 24.64dBm
Type of Emission:	GSM850: 258KGXW, GSM1900: 259KGXW EDGE850: 258KG7W, EDGE1900: 257KG7W
Type of Modulation:	GMSK, 8PSK
Type of Antenna:	Integral Antenna
Antenna Gain:	GSM850: -0.89dBi, GSM1900: -0.94dBi
GPRS/EDGE Class:	Class 12
3G	
Support Networks:	WCDMA, HSDPA, HSUPA
Support Band:	WCDMA Band 2, WCDMA Band 5
Uplink Frequency:	WCDMA Band 2: 1850~1910MHz WCDMA Band 5: 824~849MHz
Downlink Frequency:	WCDMA Band 2: 1930~1990MHz WCDMA Band 5: 869~894MHz
RF Output Power:	WCDMA Band 2: 22.71dBm, WCDMA Band 5: 22.86dBm
Type of Emission:	WCDMA Band 2: 4M18F9W WCDMA Band 5: 4M16F9W
Type of Modulation:	BPSK
Antenna Type:	Integral Antenna
Antenna Gain:	WCDMA Band 2: -0.94dBi, WCDMA Band 5: -0.89dBi
4G	
Support Networks:	FDD-LTE, TDD-LTE
Support Band:	FDD-LTE Band 5, 7, 17, TDD-LTE Band 41
Uplink Frequency:	FDD-LTE Band 5: Tx: 824-849MHz, FDD-LTE Band 7: Tx: 2500-2570MHz, FDD-LTE Band 17: Tx: 704-716MHz, TDD-LTE Band 41: Tx: 2496-2690MHz,
Downlink Frequency:	FDD-LTE Band 5: Rx: 869-894MHz, FDD-LTE Band 7: Rx: 2620-2690MHz, FDD-LTE Band 17: Rx: 734-746MHz, TDD-LTE Band 41: Rx: 2496-2690MHz,
RF Output Power:	FDD-LTE Band 5: 23.87dBm,

	FDD-LTE Band 7: 22.50dBm FDD-LTE Band 17: 24.42dBm TDD-LTE Band 41: 24.29dBm
Type of Emission:	FDD-LTE Band 5: 9M54G7D/9M53D7W FDD-LTE Band 7: 18M7G7D/18M6D7W FDD-LTE Band 17: 9M56G7D/9M53D7W TDD-LTE Band 41: 21M9G7D/18M7D7W
Type of Modulation:	QPSK, 16QAM
Antenna Type:	Integral Antenna
Antenna Gain:	FDD-LTE Band 5: -0.92dBi, FDD-LTE Band 7: -0.89dBi, FDD-LTE Band 17: -0.91dBi, TDD-LTE Band 41: -0.91dBi,
WIFI	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 11b/g/n(HT20) 2422-2452MHz for 11n(HT40)
RF Output Power:	14.92dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11/7
Channel Separation:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	-0.97dBi
Bluetooth	
Bluetooth Version:	V4.0
Frequency Range:	2402-2480MHz
AV Output Power:	3.24dBm (Conducted)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, Pi/4 QDPSK, 8DPSK
Quantity of Channels:	79/40
Channel Separation:	1MHz/2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	-0.97dBi

Technical Characteristics of EUT: Vice board	
2G	
Support Networks:	GSM, GPRS, EDGE
Support Band:	GSM850/PCS1900
Uplink Frequency:	GSM/GPRS/EDGE 850: 824~849MHz GSM/GPRS/EDGE 1900: 1850~1910MHz
Downlink Frequency:	GSM/GPRS/EDGE 850: 869~894MHz GSM/GPRS/EDGE 1900: 1930~1990MHz
Max RF Output Power:	GSM850: 31.81dBm, GSM1900: 28.60dBm EDGE850: 25.99dBm, EDGE1900: 24.73dBm
Type of Emission:	GSM850: 259KGXW, GSM1900: 259KGXW EDGE850: 265KG7W, EDGE1900: 257KG7W
Type of Modulation:	GMSK, 8PSK
Type of Antenna:	Integral Antenna
Antenna Gain:	GSM850: -1.53dBi, GSM1900: -0.71dBi
GRPS/EDGE Class:	Class 12
3G	
Support Networks:	WCDMA, HSDPA, HSUPA
Support Band:	WCDMA Band 2, WCDMA Band 5
Uplink Frequency:	WCDMA Band 2: 1850~1910MHz WCDMA Band 5: 824~849MHz
Downlink Frequency:	WCDMA Band 2: 1930~1990MHz WCDMA Band 5: 869~894MHz
RF Output Power:	WCDMA Band 2: 21.38dBm, WCDMA Band 5: 22.94dBm
Type of Emission:	WCDMA Band 2: 4M18F9W WCDMA Band 5: 4M21F9W
Type of Modulation:	BPSK
Antenna Type:	Integral Antenna
Antenna Gain:	WCDMA Band 2: -0.71dBi, WCDMA Band 5: -1.53dBi

1.2 Test Standards

The following report is prepared on behalf of the HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED in accordance with FCC 47 CFR Part 2.1093, ANSI/IEEE C95.1-2005, ANSI / IEEE C95.3 :2002, IEEE 1528-2013, the following FCC Published RF exposure KDB procedures, and TCB workshop updates:

447498 D01 General RF Exposure Guidance v05r02
648474 D04 Handset SAR v01r02
941225 D01 SAR test for 3G devices v02
941225 D02 HSPA and 1x Advanced v02r02
941225 D03 SAR Test Reduction GSM GPRS EDGE v01
941225 D04 SAR for GSM E GPRS Dual Xfer Mode v01
941225 D04 SAR for GSM E GPRS Dual Xfer Mode v01
941225 D04 SAR for GSM E GPRS Dual Xfer Mode v01
941225 D06 Hotspot Mode SAR v01r01
248227 D01 SAR Meas for 802.11abg v01r02
865664 D01 SAR Measurement 100 MHz to 6 GHz v01r03
865664 D02 SAR Reporting v01r01
690783 D01 SAR Listings on Grants v01r03

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:

Main board

Frequency Band	Head SAR	Body-worn (10mm Gap)	Hotspot (10mm Gap)	SAR _{1g} Limit (W/kg)
	Maximum SAR _{1g} (W/kg)	Maximum SAR _{1g} (W/kg)	Maximum SAR _{1g} (W/kg)	
GSM850	0.4650	0.8766	0.2402	1.6
GSM1900	0.2750	0.2503	0.2402	1.6
WCDMA Band 2	0.6563	0.5129	0.5129	1.6
WCDMA Band 5	0.4290	0.8088	0.8088	1.6
FDD-LTE Band 5	0.3906	0.7599	0.7599	1.6
FDD-LTE Band 7	0.2825	0.1727	0.1734	1.6
FDD-LTE Band 17	0.0862	0.0847	0.0847	1.6
TDD-LTE Band 41	0.2276	0.2827	0.2827	1.6
WLAN 2.4G	0.0986	0.0842	0.0842	1.6
GSM850 & WLAN 2.4GHz	0.4740	0.9669	0.3305	1.6
GSM1900 & WLAN 2.4GHz	0.3621	0.3406	0.3305	1.6
WCDMA Band 2 & WLAN 2.4GHz	0.7434	0.6032	0.6032	1.6
WCDMA Band 5 & WLAN 2.4GHz	0.5161	0.8991	0.8991	1.6
FDD-LTE Band 5 & WLAN 2.4GHz	0.4777	0.8502	0.8502	1.6
FDD-LTE Band 7 & WLAN 2.4GHz	0.3882	0.2630	0.2630	1.6
FDD-LTE Band 17 & WLAN 2.4GHz	0.1786	0.1750	0.1750	1.6
TDD-LTE Band 41 & WLAN 2.4GHz	0.3147	0.3730	0.3730	1.6

Vice board

Frequency Band	Body(10mm Gap)	SAR _{1g} Limit (W/kg)
	Maximum SAR _{1g} (W/kg)	
GSM850	0.2137	1.6
GSM1900	0.2171	1.6
WCDMA Band 2	0.2347	1.6
WCDMA Band 5	0.5144	1.6

Remark:

The highest reported SAR values for head, body-worn accessory, product specific (wireless router), and simultaneous transmission conditions are **0.656W/kg**, **0.877W/kg**, **0.809W/kg**, and **0.967W/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.

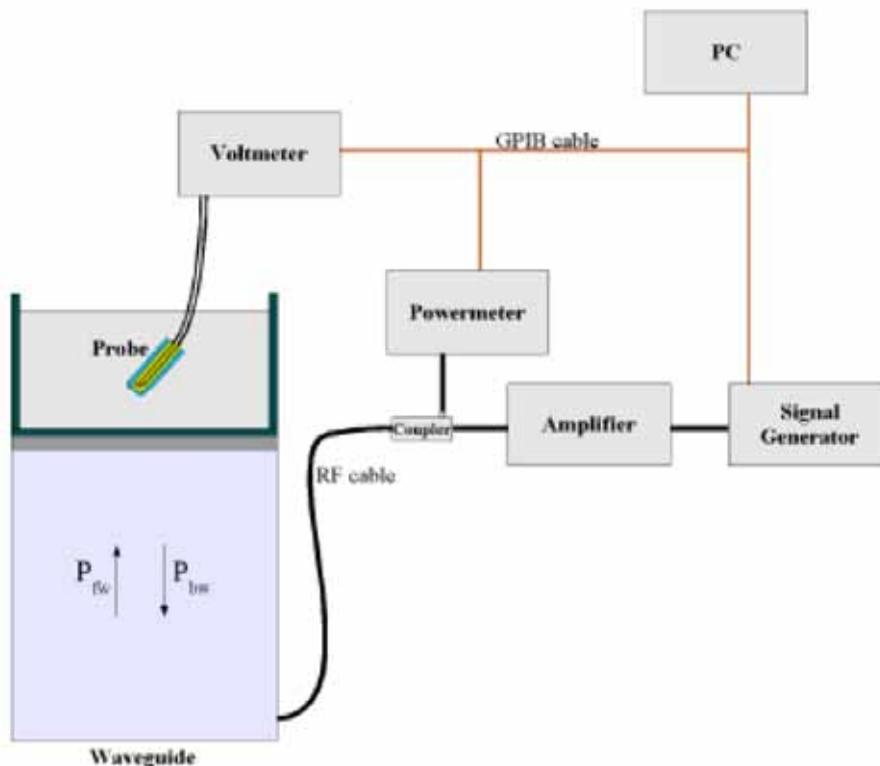
4.2 Probe

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 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:

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

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

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

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 T/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,

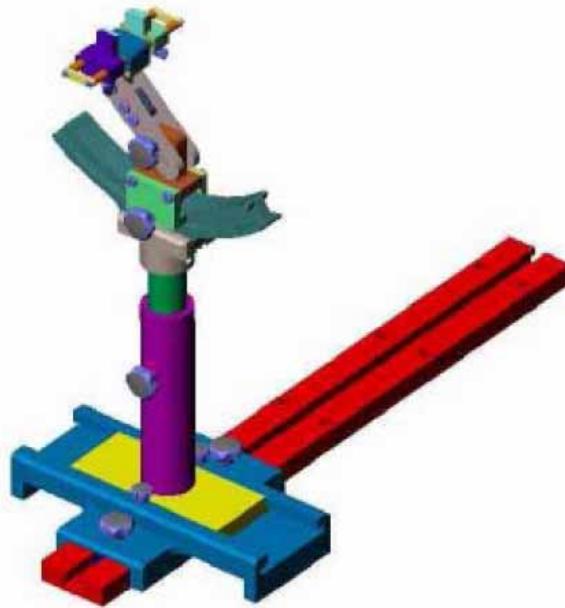
ρ = Tissue density (1.25 g/cm³ for brain tissue)

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	2015-03-16	2016-03-15
750MHz Dipole	SATIMO	SID750	SN 47/12 DIP 0G750-203	2015-03-16	2016-03-15
835MHz Dipole	SATIMO	SID835	SN 47/12 DIP 0G835-204	2015-03-16	2016-03-15
1900MHz Dipole	SATIMO	SID1900	SN 47/12 DIP 1G900-207	2015-03-16	2016-03-15
2450MHz Dipole	SATIMO	SID2450	SN 47/12 DIP 2G450-209	2015-03-16	2016-03-15
Dielectric Probe Kit	SATIMO	SCLMP	SN 47/12 OCPG49	2015-03-16	2016-03-15
SAM Phantom	SATIMO	SAM	SN/ 47/12 SAM95	N/A	N/A
MULTIMETER	KEITHLEY	Keithley 2000	4006367	2015-06-17	2016-06-16
Signal Generator	Rohde & Schwarz	SMR20	100047	2015-06-17	2016-06-16
Universal Tester	Rohde & Schwarz	CMU200	112012	2015-06-17	2016-06-16
Network Analyzer	HP	8753C	2901A00831	2015-06-17	2016-06-16
Data Acquisition Electronics	SATIMO	DAE4	915	2015-06-17	2016-06-16
Directional Couplers	Agilent	778D	20160	2015-06-17	2016-06-16

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						
750	34.29	1.05	0.00	0.00	64.66	0.00
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						
750	51.75	1.17	0.00	0.00	47.08	0.00
835	52.87	1.07	0.00	0.00	46.10	0.00
1900	69.99	0.41	20.66	0.00	0.00	8.93
2450	55.44	0.32	30.50	0.00	0.00	13.74

5.2 Tissue Dielectric Parameters for Head and Body Phantoms

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

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
750	0.89	41.9	0.96	55.5
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. (°)	Conductivity			Permittivity			Limit (%)	Date
		Reading (σ)	Target (σ)	Delta (%)	Reading (ε r)	Target (ε r)	Delta (%)		
750	21.2	0.86	0.89	-3.37	41.32	41.90	-1.38	± 5	2015-06-12
835	21.2	0.87	0.90	-3.33	41.11	41.50	-0.94	± 5	2015-06-12
1900	21.3	1.38	1.40	-1.43	38.56	40.00	-3.60	± 5	2015-06-12
2450	21.3	1.74	1.80	-3.33	38.15	39.20	-2.68	± 5	2015-06-12

Body Tissue Simulating Liquid									
Freq. MHz.	Temp. (°)	Conductivity			Permittivity			Limit (%)	Date
		Reading (σ)	Target (σ)	Delta (%)	Reading (ε r)	Target (ε r)	Delta (%)		
750	21.2	0.93	0.96	-3.12	54.96	55.50	-0.97	± 5	2015-06-12
835	21.2	0.95	0.97	-2.06	54.85	55.20	-0.63	± 5	2015-06-12
1900	21.3	1.50	1.52	-1.32	52.42	53.30	-1.65	± 5	2015-06-12
2450	21.3	1.91	1.95	-2.05	52.01	52.70	-1.31	± 5	2015-06-12

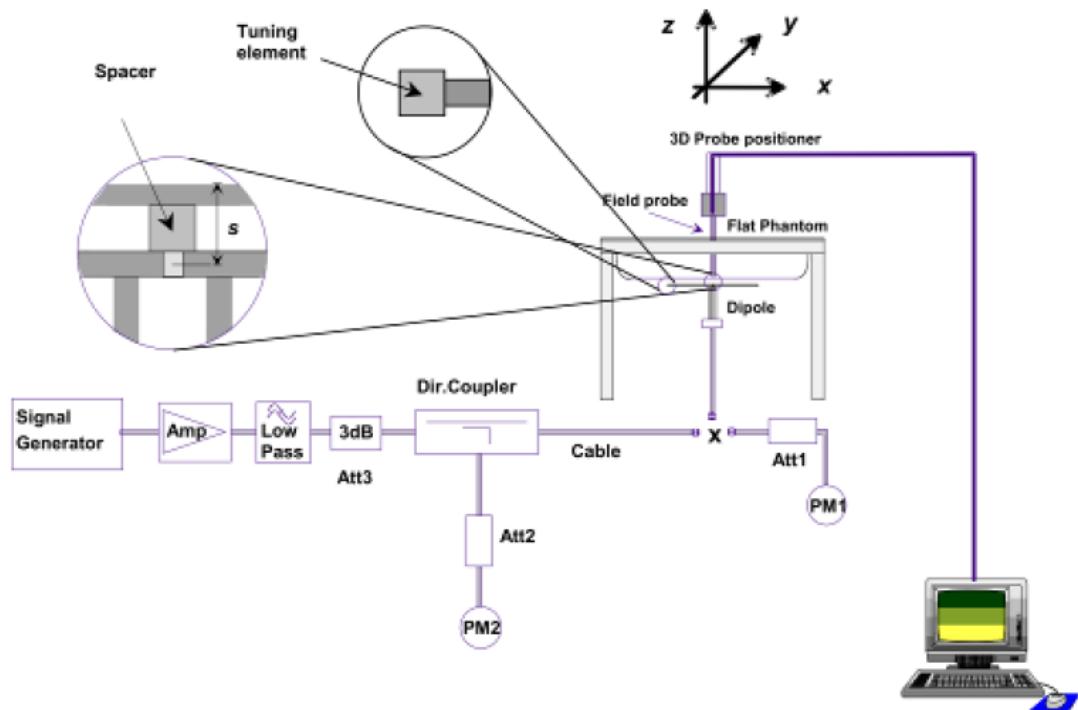
6. SAR Measurement Evaluation

6.1 Purpose of System Performance Check

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

6.2 System Setup

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



System Verification Setup Block Diagram



Setup Photo of Dipole Antenna

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

6.3 Validation Results

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

Frequency	Targeted SAR _{1g}	Measured SAR _{1g}	Normalized SAR _{1g}	Tolerance
MHz	(W/kg)	(W/kg)	(W/kg)	(%)
Head				
750	8.49	2.10	8.41	-0.94
835	9.56	2.41	9.65	0.94
1900	39.70	9.90	39.59	-0.28
2450	52.40	13.13	52.50	0.19
Body				
750	8.49	2.07	8.29	-2.36
835	9.56	2.34	9.36	-2.09
1900	39.70	9.75	39.01	-1.74
2450	52.40	12.95	51.8	-1.15

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.

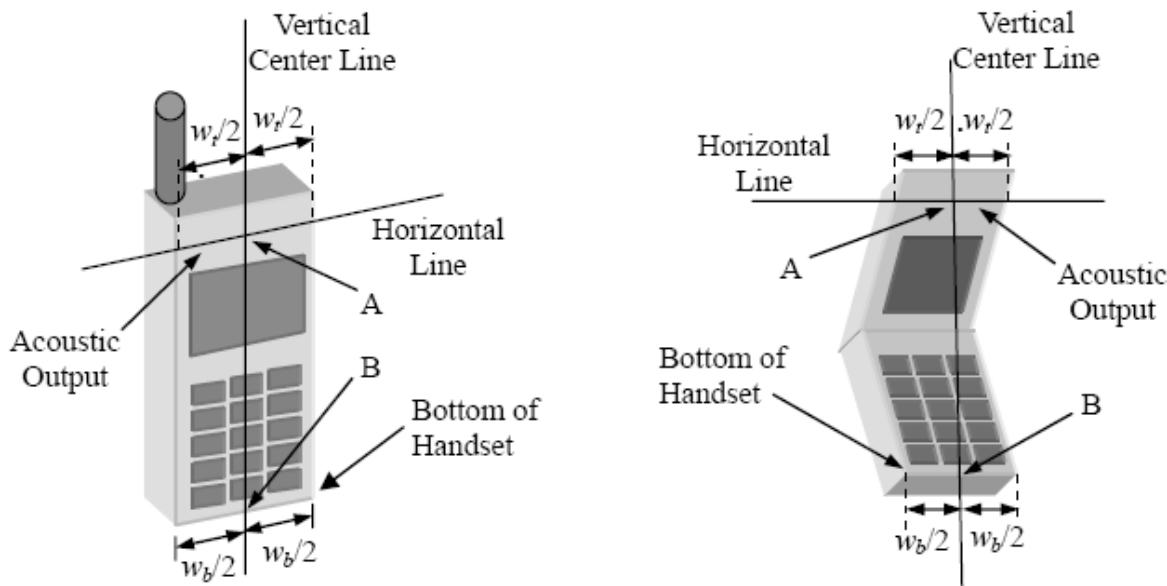


Illustration for Handset Vertical and Horizontal Reference Lines

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).

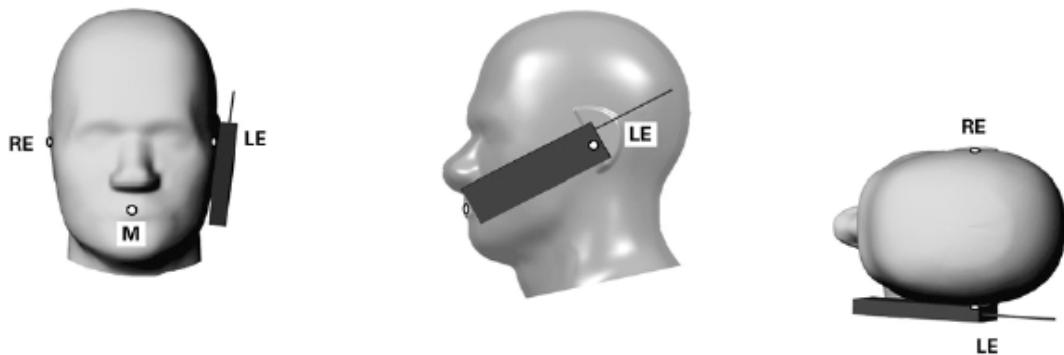


Illustration for Cheek Position

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).

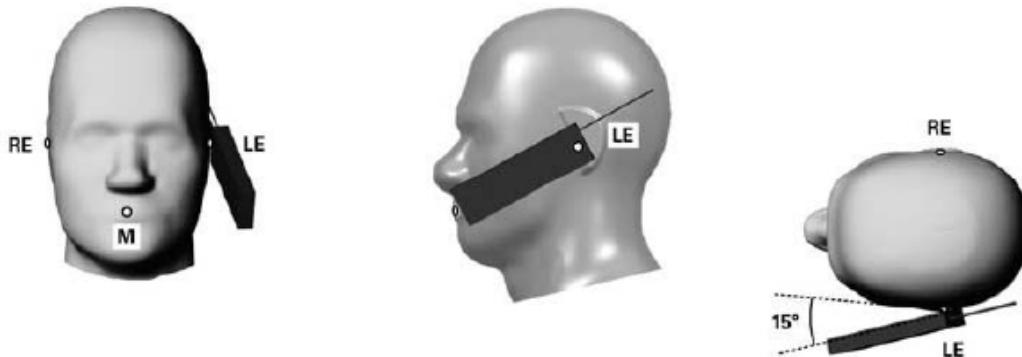


Illustration for Tilted Position

7.4 Body Position

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

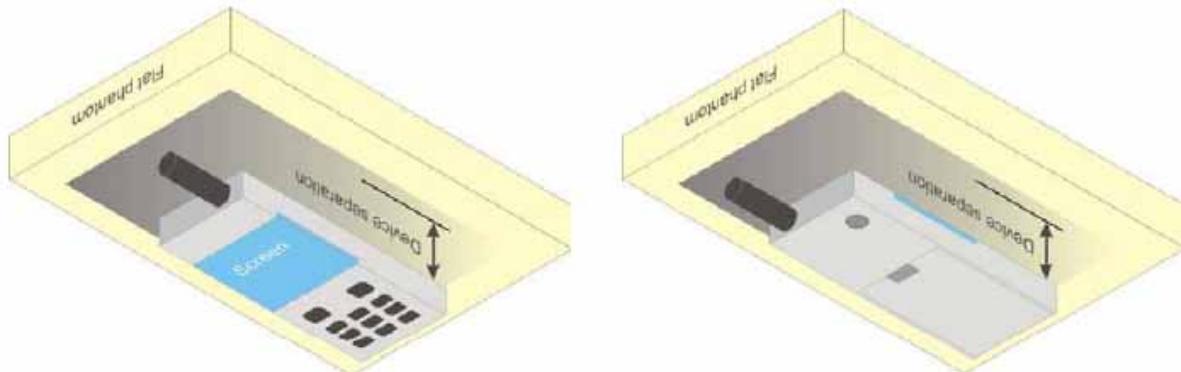


Illustration for Body Position

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	Yes	Yes
WLAN	Yes	Yes	Yes	Yes	Yes	Yes

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 form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

8.3 Area & Zoom Scan Procedures

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

8.4 Volume Scan Procedures

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

8.5 SAR Averaged Methods

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

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

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

8.6 Power Drift Monitoring

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

9. SAR Test Result

9.1 Conducted RF Output Power

Main board

GSM - Burst Average Power (dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
GSM	31.47	31.51	31.40	29.60	29.27	29.20
GPRS (1 slot)	31.77	31.80	31.73	29.58	29.32	29.42
GPRS (2 slots)	30.88	30.99	30.34	27.13	27.54	27.47
GPRS (3 slots)	28.60	28.71	28.81	25.91	25.71	25.75
GPRS (4 slots)	27.71	27.86	27.77	24.44	24.27	24.06
EDGE (1 slot)	25.56	25.69	25.70	24.64	24.39	24.24
EDGE (2 slots)	25.00	25.08	25.11	24.09	23.81	23.71
EDGE (3 slots)	23.85	23.95	24.00	22.99	22.71	22.64
EDGE (4 slots)	22.72	22.83	22.82	22.82	22.53	22.44

GSM - Source-Based Time-Average Power (dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
GSM	22.47	22.51	22.40	20.60	20.27	20.20
GPRS (1 slot)	22.77	22.80	22.73	20.58	20.32	20.42
GPRS (2 slots)	24.88	24.99	25.34	21.13	21.54	21.47
GPRS (3 slots)	24.35	24.46	24.56	21.66	21.46	21.50
GPRS (4 slots)	24.71	24.86	24.77	21.44	21.27	21.06
EDGE (1 slot)	16.56	16.69	16.70	15.64	15.39	15.24
EDGE (2 slots)	19.00	19.08	19.11	18.09	17.81	17.71
EDGE (3 slots)	19.60	19.70	19.75	18.74	18.46	18.39
EDGE (4 slots)	19.72	19.83	19.82	19.82	19.53	19.44

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:

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

WCDMA - Average Power (dBm)						
Band	WCDMA Band 2			WCDMA Band 5		
Channel	9262	9400	9538	4132	4182	4233
Frequency (MHz)	1852.4	1880.0	1907.6	826.4	836.6	846.6
RMC 12.2k	22.71	22.62	22.39	22.82	22.86	22.71
HSDPA Subtest-1	21.25	21.29	21.18	22.10	22.17	22.56
HSDPA Subtest-2	21.19	21.23	21.13	22.03	22.10	22.45
HSDPA Subtest-3	21.11	21.21	21.11	21.89	22.00	22.21
HSDPA Subtest-4	21.09	21.19	21.04	21.75	21.84	22.01
HSDPA Subtest-5	20.89	21.05	21.01	21.63	21.68	21.89
HSUPA Subtest-1	20.75	20.79	20.73	21.84	21.71	22.10
HSUPA Subtest-2	20.63	20.68	20.64	21.68	21.61	22.06
HSUPA Subtest-3	20.57	20.59	20.48	21.57	21.45	21.79
HSUPA Subtest-4	20.48	20.42	20.39	21.37	21.35	21.56

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 > 1.2W/kg, HSDPA SAR evaluation can be excluded.

FDD-LTE Band 5				FDD-LTE Band 17			
Modulation	Bandwidth (MHz)	Channel	Average Power (dBm)	Modulation	Bandwidth (MHz)	Channel	Average Power (dBm)
QPSK	1.4	LCH	23.87	QPSK	1.4	LCH	/
		MCH	23.51			MCH	/
		HCH	23.60			HCH	/
	3	LCH	23.45		3	LCH	/
		MCH	23.40			MCH	/
		HCH	23.36			HCH	/
	5	LCH	23.46		5	LCH	24.42
		MCH	23.31			MCH	24.26
		HCH	23.36			HCH	24.37
	10	LCH	23.38		10	LCH	24.23
		MCH	23.29			MCH	23.94
		HCH	23.23			HCH	24.18
16QAM	1.4	LCH	22.80	16QAM	1.4	LCH	/
		MCH	22.75			MCH	/
		HCH	22.70			HCH	/
	3	LCH	22.76		3	LCH	/
		MCH	22.72			MCH	/
		HCH	22.61			HCH	/
	5	LCH	22.69		5	LCH	23.74
		MCH	22.60			MCH	23.47
		HCH	22.51			HCH	22.88
	10	LCH	22.58		10	LCH	23.60
		MCH	22.58			MCH	23.41
		HCH	22.58			HCH	23.77

TDD-LTE Band 7				TDD-LTE Band 41			
Modulation	Bandwidth (MHz)	Channel	Average Power (dBm)	Modulation	Bandwidth (MHz)	Channel	Average Power (dBm)
QPSK	5	LCH	22.06	QPSK	5	LCH	24.19
		MCH	21.33			MCH	24.00
		HCH	21.91			HCH	23.73
	10	LCH	22.22		10	LCH	24.19
		MCH	22.48			MCH	24.13
		HCH	22.33			HCH	23.76
	15	LCH	22.13		15	LCH	24.22
		MCH	22.21			MCH	24.17
		HCH	22.05			HCH	23.72
	20	LCH	22.21		20	LCH	24.29
		MCH	22.50			MCH	24.17
		HCH	21.98			HCH	24.04
16QAM	5	LCH	22.10	16QAM	5	LCH	23.68
		MCH	22.25			MCH	22.68
		HCH	21.92			HCH	23.00
	10	LCH	22.16		10	LCH	23.50
		MCH	21.98			MCH	23.41
		HCH	21.74			HCH	22.99
	15	LCH	21.83		15	LCH	23.55
		MCH	22.00			MCH	23.42
		HCH	21.24			HCH	23.06
	20	LCH	21.88		20	LCH	23.44
		MCH	22.42			MCH	23.26
		HCH	22.50			HCH	22.96

WLAN - Maximum Average Power				
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)
802.11b	1Mbps	CH 01	2412	14.89
		CH 06	2437	13.26
		CH 11	2462	14.92
802.11g	54Mbps	CH 01	2412	11.14
		CH 06	2437	10.80
		CH 11	2462	11.93
802.11n (20MHz)	MCS7	CH 01	2412	11.10
		CH 06	2437	11.21
		CH 11	2462	11.17
802.11n (40MHz)	MCS7	CH 03	2422	10.49
		CH 06	2437	11.00
		CH 09	2452	10.38

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	0.91
		CH 39	2441	3.24
		CH 78	2480	1.49
4*π4DQPSK	2Mbps	CH 00	2402	0.69
		CH 39	2441	2.47
		CH 78	2480	0.14
8DPSK	3Mbps	CH 00	2402	0.50
		CH 39	2441	2.72
		CH 78	2480	0.96
BLE	1Mbps	CH 00	2402	-3.42
		CH 19	2442	-1.01
		CH 39	2480	-2.77

Remark:

Bluetooth maximum output power is 3.24dBm, and Tune-Up output power is 3.5dBm. 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:

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

- $f(\text{GHz})$ 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
3.5	2.24	5	2.441	0.6999	3

The exclusion thresholds is $1.25 < 3$, therefore, the RF exposure evaluation is not required.

Vice board

GSM - Burst Average Power (dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
GSM	31.61	31.71	31.80	28.43	28.56	28.42
GPRS (1 slot)	31.61	31.69	31.81	28.47	28.60	28.50
GPRS (2 slots)	29.10	29.78	29.86	26.39	26.54	26.45
GPRS (3 slots)	27.68	27.78	27.87	24.35	24.44	24.36
GPRS (4 slots)	25.73	25.79	25.88	22.29	22.27	22.32
EDGE (1 slot)	25.82	25.86	25.99	24.58	24.73	24.59
EDGE (2 slots)	23.82	23.94	24.06	22.59	22.76	22.83
EDGE (3 slots)	21.83	21.93	21.99	20.54	20.76	20.69
EDGE (4 slots)	19.85	19.92	19.99	18.52	18.61	18.65

GSM - Source-Based Time-Average Power (dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
GSM	22.61	22.71	22.80	19.43	19.56	19.42
GPRS (1 slot)	22.61	22.69	22.81	19.47	19.60	19.50
GPRS (2 slots)	23.10	23.78	23.86	20.39	20.54	20.45
GPRS (3 slots)	23.43	23.53	23.62	20.10	20.19	20.11
GPRS (4 slots)	22.73	22.79	22.88	19.29	19.27	19.32
EDGE (1 slot)	16.82	16.86	16.99	15.58	15.73	15.59
EDGE (2 slots)	17.82	17.94	18.06	16.59	16.76	16.83
EDGE (3 slots)	17.58	17.68	17.74	16.29	16.51	16.44
EDGE (4 slots)	16.85	16.92	16.99	15.52	15.61	15.65

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:

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

WCDMA - Average Power (dBm)						
Band	WCDMA Band 2			WCDMA Band 5		
Channel	9262	9400	9538	4132	4182	4233
Frequency (MHz)	1852.4	1880.0	1907.6	826.4	836.6	846.6
RMC 12.2k	21.38	21.16	20.73	22.84	21.95	21.55
HSDPA Subtest-1	21.35	21.17	20.82	22.90	22.09	21.72
HSDPA Subtest-2	21.30	21.08	20.73	22.56	22.00	21.52
HSDPA Subtest-3	21.21	21.00	20.46	22.23	21.75	21.49
HSDPA Subtest-4	21.14	20.89	20.36	22.11	21.63	21.29
HSDPA Subtest-5	21.09	20.72	20.33	21.89	21.43	21.10
HSUPA Subtest-1	21.39	21.14	20.95	22.94	22.09	21.71
HSUPA Subtest-2	21.28	21.09	20.86	22.90	22.00	21.48
HSUPA Subtest-3	21.17	21.01	20.69	22.83	21.79	21.39
HSUPA Subtest-4	21.05	20.73	20.49	22.71	21.49	21.21

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 > 1.2W/kg, HSDPA SAR evaluation can be excluded.

9.2 Test Results for Standalone SAR Test

Main board:

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	190	836.6	31.51	32.0	1.1194	0.3290	0.3683
2	GSM	Right Tilted	190	836.6	31.51	32.0	1.1194	0.2396	0.2682
3	GSM	Left Cheek	190	836.6	31.51	32.0	1.1194	0.4154	0.4650
4	GSM	Left Tilted	190	836.6	31.51	32.0	1.1194	0.3002	0.3361

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					
12	GSM	Right Cheek	512	1850.2	29.60	30.0	1.0965	0.1215	0.1332
13	GSM	Right Tilted	512	1850.2	29.60	30.0	1.0965	0.0284	0.0311
14	GSM	Left Cheek	512	1850.2	29.60	30.0	1.0965	0.2508	0.2750
15	GSM	Left Tilted	512	1850.2	29.60	30.0	1.0965	0.0389	0.0427

WCDMA Band 2 – Head SAR Test									
Plot No.	Mode	Test Postion Head	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
23	RMC	Right Cheek	9262	1852.4	22.71	23.0	1.0691	0.2476	0.2647
24	RMC	Right Tilted	9262	1852.4	22.71	23.0	1.0691	0.0729	0.0779
25	RMC	Left Cheek	9262	1852.4	22.71	23.0	1.0691	0.6139	0.6563
26	RMC	Left Tilted	9262	1852.4	22.71	23.0	1.0691	0.0816	0.0872

WCDMA Band 5 – Head SAR Test									
Plot No.	Mode	Test Postion Head	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
32	RMC	Right Cheek	4182	836.6	22.86	23.0	1.0328	0.3290	0.3398
33	RMC	Right Tilted	4182	836.6	22.86	23.0	1.0328	0.2396	0.2474
34	RMC	Left Cheek	4182	836.6	22.86	23.0	1.0328	0.4154	0.4290
35	RMC	Left Tilted	4182	836.6	22.86	23.0	1.0328	0.3002	0.3100

LTE Band 5– Head SAR Test								
Plot No.	Mode	Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth		MHz					
41	RMC,QPSK 1.4MHz	Right Cheek	824.7	23.87	24.0	1.0304	0.2396	0.2469
42	RMC,QPSK 1.4MHz	Right Tilted	824.7	23.87	24.0	1.0304	0.2432	0.2506
43	RMC,QPSK 1.4MHz	Left Cheek	824.7	23.87	24.0	1.0304	0.3791	0.3906
44	RMC,QPSK 1.4MHz	Left Tilted	824.7	23.87	24.0	1.0304	0.2554	0.2632

LTE Band 7– Head SAR Test								
Plot No.	Mode	Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth		MHz					
96	RMC,QPSK 5MHz	Right Cheek	2535.0	22.50	23.0	1.1220	0.2518	0.2825
97	RMC,QPSK 5MHz	Right Tilted	2535.0	22.50	23.0	1.1220	0.0353	0.0396
98	RMC,QPSK 5MHz	Left Cheek	2535.0	22.50	23.0	1.1220	0.1662	0.1865
99	RMC,QPSK 5MHz	Left Tilted	2535.0	22.50	23.0	1.1220	0.0256	0.0287

LTE Band 17– Head SAR Test								
Plot No.	Mode	Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth		MHz					
50	RMC,QPSK 5MHz	Right Cheek	706.5	24.42	24.5	1.0186	0.0716	0.0729
51	RMC,QPSK 5MHz	Right Tilted	706.5	24.42	24.5	1.0186	0.0257	0.0262
52	RMC,QPSK 5MHz	Left Cheek	706.5	24.42	24.5	1.0186	0.0846	0.0862
53	RMC,QPSK 5MHz	Left Tilted	706.5	24.42	24.5	1.0186	0.0357	0.0364

LTE Band 41– Head SAR Test								
Plot No.	Mode	Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth		MHz					
59	RMC,QPSK 20MHz	Right Cheek	2506.0	24.29	24.5	1.0495	0.1149	0.1206
60	RMC,QPSK 20MHz	Right Tilted	2506.0	24.29	24.5	1.0495	0.0253	0.0266
61	RMC,QPSK 20MHz	Left Cheek	2506.0	24.29	24.5	1.0495	0.2169	0.2276
62	RMC,QPSK 20MHz	Left Tilted	2506.0	24.29	24.5	1.0495	0.0244	0.0256

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					
68	802.11b	Right Cheek	11	2462	14.92	15.0	1.0184	0.0968	0.0986
69	802.11b	Right Tilted	11	2462	14.92	15.0	1.0184	0.0715	0.0728
70	802.11b	Left Cheek	11	2462	14.92	15.0	1.0184	0.0798	0.0812
71	802.11b	Left Tilted	11	2462	14.92	15.0	1.0184	0.0755	0.0769

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 Postion 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	31.51	32.0	1.1194	0.7831	0.8766
6	GSM	Front	128	824.2	31.51	32.0	1.1194	0.2408	0.2696

GSM1900 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
16	GSM	Back	512	1850.2	29.60	30.0	1.0965	0.2283	0.2503
17	GSM	Front	512	1850.2	29.60	30.0	1.0965	0.1679	0.1841

WCDMA Band 2 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
27	RMC 12.2k	Back Side	9262	1852.4	22.71	23.0	1.0691	0.4798	0.5129
28	RMC 12.2k	Front Side	9262	1852.4	22.71	23.0	1.0691	0.3735	0.3993

WCDMA Band 5 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
36	RMC 12.2k	Back Side	4182	836.6	22.86	23.0	1.0328	0.7831	0.8088
37	RMC 12.2k	Front Side	4182	836.6	22.86	23.0	1.0328	0.2408	0.2487

LTE Band 5–Body SAR Test (Gap: 10mm)									
Plot No.	Mode		Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth	Bandwidth		MHz					
45	RMC,QPSK 1.4MHz		Back Side	824.7	23.87	24.0	1.0304	0.7375	0.7599
46	RMC,QPSK 1.4MHz		Front Side	824.7	23.87	24.0	1.0304	0.4150	0.4276

LTE Band 7–Body SAR Test (Gap: 10mm)									
Plot No.	Mode		Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth			MHz					
100	RMC,QPSK 5MHz	Back Side	2535.0	22.50	23.0	1.1220	0.1539	0.1727	
101	RMC,QPSK 5MHz	Front Side	2535.0	22.50	23.0	1.1220	0.1498	0.1681	

LTE Band 17–Body SAR Test (Gap: 10mm)									
Plot No.	Mode		Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth			MHz					
54	RMC,QPSK 5MHz	Back Side	706.5	24.42	24.5	1.0186	0.0832	0.0847	
55	RMC,QPSK 5MHz	Front Side	706.5	24.42	24.5	1.0186	0.0211	0.0215	

LTE Band 41–Body SAR Test (Gap: 10mm)									
Plot No.	Mode		Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth			MHz					
63	RMC,QPSK 20MHz	Back Side	2506.0	24.29	24.5	1.0495	0.2694	0.2827	
64	RMC,QPSK 20MHz	Front Side	2506.0	24.29	24.5	1.0495	0.2169	0.2276	

WLAN 2.4GHz –Body SAR Test									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
72	802.11b	Back Side	11	2462	14.92	15.0	1.0184	0.0827	0.0842
73	802.11b	Front Side	11	2462	14.92	15.0	1.0184	0.0294	0.0300

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 Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
7	GPRS_2TX	Back Side	251	848.8	31.34	31.5	1.0375	0.2315	0.2402
8	GPRS_2TX	Front Side	251	848.8	31.34	31.5	1.0375	0.1543	0.1601
9	GPRS_2TX	Bottom side	251	848.8	31.34	31.5	1.0375	0.1267	0.1315
10	GPRS_2TX	Right side	251	848.8	31.34	31.5	1.0375	0.0634	0.0658
11	GPRS_2TX	Left side	251	848.8	31.34	31.5	1.0375	0.0652	0.0676

GSM1900 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
18	GPRS_2TX	Back Side	661	1880.0	27.54	28.0	1.1117	0.2161	0.2402
19	GPRS_2TX	Front Side	661	1880.0	27.54	28.0	1.1117	0.0569	0.0633
20	GPRS_2TX	Bottom side	661	1880.0	27.54	28.0	1.1117	0.1046	0.1163
21	GPRS_2TX	Right side	661	1880.0	27.54	28.0	1.1117	0.0204	0.0227
22	GPRS_2TX	Left side	661	1880.0	27.54	28.0	1.1117	0.0246	0.0273

WCDMA Band 2 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
27	RMC 12.2k	Back Side	9262	1852.4	22.71	23.0	1.0691	0.4798	0.5129
28	RMC 12.2k	Front Side	9262	1852.4	22.71	23.0	1.0691	0.3735	0.3993
29	RMC 12.2k	Bottom side	9262	1852.4	22.71	23.0	1.0691	0.3109	0.3324
30	RMC 12.2k	Right side	9262	1852.4	22.71	23.0	1.0691	0.2107	0.2252
31	RMC 12.2k	Left side	9262	1852.4	22.71	23.0	1.0691	0.1209	0.1292

WCDMA Band 5 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
36	RMC 12.2k	Back Side	4182	836.6	22.86	23.0	1.0328	0.7831	0.8088
37	RMC 12.2k	Front Side	4182	836.6	22.86	23.0	1.0328	0.2408	0.2487
38	RMC 12.2k	Bottom side	4182	836.6	22.86	23.0	1.0328	0.4151	0.4287
39	RMC 12.2k	Right side	4182	836.6	22.86	23.0	1.0328	0.5578	0.5761
40	RMC 12.2k	Left side	4182	836.6	22.86	23.0	1.0328	0.4748	0.4904

LTE Band 5–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth		MHz					
45	RMC,QPSK 1.4MHz	Back Side	824.7	23.87	24.0	1.0304	0.7375	0.7599
46	RMC,QPSK 1.4MHz	Front Side	824.7	23.87	24.0	1.0304	0.4150	0.4276
47	RMC,QPSK 1.4MHz	Bottom side	824.7	23.87	24.0	1.0304	0.2638	0.2718
48	RMC,QPSK 1.4MHz	Right side	824.7	23.87	24.0	1.0304	0.1160	0.1195
49	RMC,QPSK 1.4MHz	Left side	824.7	23.87	24.0	1.0304	0.4161	0.4287

LTE Band 7–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth		MHz					
100	RMC,QPSK 5MHz	Back Side	2535.0	22.50	23.0	1.1220	0.1539	0.1727
101	RMC,QPSK 5MHz	Front Side	2535.0	22.50	23.0	1.1220	0.1498	0.1681
102	RMC,QPSK 5MHz	Bottom side	2535.0	22.50	23.0	1.1220	0.1545	0.1734
103	RMC,QPSK 5MHz	Right side	2535.0	22.50	23.0	1.1220	0.1490	0.1672
104	RMC,QPSK 5MHz	Left side	2535.0	22.50	23.0	1.1220	0.1514	0.1699

LTE Band 17–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth		MHz					
54	RMC,QPSK 5MHz	Back Side	706.5	24.42	24.5	1.0186	0.0832	0.0847
55	RMC,QPSK 5MHz	Front Side	706.5	24.42	24.5	1.0186	0.0211	0.0215
56	RMC,QPSK 5MHz	Bottom side	706.5	24.42	24.5	1.0186	0.0075	0.0076
57	RMC,QPSK 5MHz	Right side	706.5	24.42	24.5	1.0186	0.0160	0.0163
58	RMC,QPSK 5MHz	Left side	706.5	24.42	24.5	1.0186	0.0075	0.0076

LTE Band 41–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Postion Head	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth		MHz					
63	RMC,QPSK 20MHz	Back Side	2506.0	24.29	24.5	1.0495	0.2694	0.2827
64	RMC,QPSK 20MHz	Front Side	2506.0	24.29	24.5	1.0495	0.2169	0.2276
65	RMC,QPSK 20MHz	Bottom side	2506.0	24.29	24.5	1.0495	0.0737	0.0774
66	RMC,QPSK 20MHz	Right side	2506.0	24.29	24.5	1.0495	0.0957	0.1004
67	RMC,QPSK 20MHz	Left side	2506.0	24.29	24.5	1.0495	0.0131	0.0137

WLAN 2.4GHz -Body SAR Test									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
72	802.11b	Back Side	11	2462	14.92	15.0	1.0184	0.0827	0.0842
73	802.11b	Front Side	11	2462	14.92	15.0	1.0184	0.0294	0.0299
74	802.11b	Top side	11	2462	14.92	15.0	1.0184	0.0148	0.0151
75	802.11b	Right Side	11	2462	14.92	15.0	1.0184	0.0272	0.0277

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.

Vice board:

Body SAR

GSM850 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
76	GPRS_2TX	Back Side	251	848.8	29.86	30.0	1.0328	0.2069	0.2137
77	GPRS_2TX	Front Side	251	848.8	29.86	30.0	1.0328	0.0382	0.0395
78	GPRS_2TX	Bottom side	251	848.8	29.86	30.0	1.0328	0.0237	0.0245
79	GPRS_2TX	Right side	251	848.8	29.86	30.0	1.0328	0.0428	0.0442
80	GPRS_2TX	Left side	251	848.8	29.86	30.0	1.0328	0.0570	0.0589

GSM1900 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
81	GPRS_2TX	Back Side	661	1880.0	26.54	27.0	1.1117	0.1953	0.2171
82	GPRS_2TX	Front Side	661	1880.0	26.54	27.0	1.1117	0.0485	0.0539
83	GPRS_2TX	Bottom side	661	1880.0	26.54	27.0	1.1117	0.0302	0.0336
84	GPRS_2TX	Right side	661	1880.0	26.54	27.0	1.1117	0.0303	0.0337
85	GPRS_2TX	Left side	661	1880.0	26.54	27.0	1.1117	0.0499	0.0555

WCDMA Band 2 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
86	RMC 12.2k	Back Side	9262	1880.0	21.38	21.5	1.0280	0.2283	0.2347
87	RMC 12.2k	Front Side	9262	1880.0	21.38	21.5	1.0280	0.2104	0.2163
88	RMC 12.2k	Bottom side	9262	1880.0	21.38	21.5	1.0280	0.1943	0.1997
89	RMC 12.2k	Right side	9262	1880.0	21.38	21.5	1.0280	0.1432	0.1472
90	RMC 12.2k	Left side	9262	1880.0	21.38	21.5	1.0280	0.0399	0.0410

WCDMA Band 5 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Postion Body	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
91	RMC 12.2k	Back Side	4132	826.4	22.84	23.0	1.0375	0.4958	0.5144
92	RMC 12.2k	Front Side	4132	826.4	22.84	23.0	1.0375	0.1242	0.1289
93	RMC 12.2k	Bottom side	4132	826.4	22.84	23.0	1.0375	0.2672	0.2772
94	RMC 12.2k	Right side	4132	826.4	22.84	23.0	1.0375	0.3856	0.4001
95	RMC 12.2k	Left side	4132	826.4	22.84	23.0	1.0375	0.3528	0.3660

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	LTE + WLAN			
7	GSM + Bluetooth	Yes	Yes	-
8	GPRS + Bluetooth	-	-	Yes
9	WCDMA + Bluetooth	Yes	Yes	-
10	HSDPA + Bluetooth	-	-	Yes
11	HSUPA + Bluetooth	-	-	Yes
12	LTE + Bluetooth	Yes	Yes	Yes

Remark:

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

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

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

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

Bluetooth:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	X	SAR(1g) 5mm	SAR(1g) 10mm
3.5	2.24	5/10	2.441	7.5	0.0933	0.0467

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

Head SAR
WWAN and WLAN

Position	WWAN		WLAN	Summed SAR (W/kg)
	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM850	0.3683	0.1057	0.4740
Right Tilted	GSM850	0.2682	0.0780	0.3462
Left Cheek	GSM850	0.4650	0.0871	0.5521
Left Tilted	GSM850	0.3361	0.0824	0.4185
Right Cheek	GSM1900	0.1332	0.1057	0.2389
Right Tilted	GSM1900	0.0311	0.0780	0.1091
Left Cheek	GSM1900	0.2750	0.0871	0.3621
Left Tilted	GSM1900	0.0427	0.0824	0.1251
Right Cheek	WCDMA Band 2	0.2647	0.1057	0.3704
Right Tilted	WCDMA Band 2	0.0779	0.0780	0.1559
Left Cheek	WCDMA Band 2	0.6563	0.0871	0.7434
Left Tilted	WCDMA Band 2	0.0872	0.0824	0.1696
Right Cheek	WCDMA Band 5	0.3398	0.1057	0.4455
Right Tilted	WCDMA Band 5	0.2474	0.0780	0.3254
Left Cheek	WCDMA Band 5	0.4290	0.0871	0.5161
Left Tilted	WCDMA Band 5	0.3100	0.0824	0.3924
Right Cheek	LTE Band 5	0.2469	0.1057	0.3526
Right Tilted	LTE Band 5	0.2506	0.0780	0.3286
Left Cheek	LTE Band 5	0.3906	0.0871	0.4777
Left Tilted	LTE Band 5	0.2632	0.0824	0.3456
Right Cheek	LTE Band 7	0.2825	0.1057	0.3882
Right Tilted	LTE Band 7	0.0396	0.0780	0.1176
Left Cheek	LTE Band 7	0.1865	0.0871	0.2736
Left Tilted	LTE Band 7	0.0287	0.0824	0.1111
Right Cheek	LTE Band 17	0.0729	0.1057	0.1786
Right Tilted	LTE Band 17	0.0262	0.0780	0.1042
Left Cheek	LTE Band 17	0.0862	0.0871	0.1733
Left Tilted	LTE Band 17	0.0364	0.0824	0.1188
Right Cheek	LTE Band 41	0.1206	0.1057	0.2263
Right Tilted	LTE Band 41	0.0266	0.0780	0.1046
Left Cheek	LTE Band 41	0.2276	0.0871	0.3147
Left Tilted	LTE Band 41	0.0256	0.0824	0.1080

WWAN and Bluetooth

Position	WWAN		Bluetooth	Summed SAR (W/kg)
	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM850	0.3683	0.0933	0.4616
Right Tilted	GSM850	0.2682	0.0933	0.3615
Left Cheek	GSM850	0.4650	0.0933	0.5583
Left Tilted	GSM850	0.3361	0.0933	0.4294
Right Cheek	GSM1900	0.1332	0.0933	0.2265
Right Tilted	GSM1900	0.0311	0.0933	0.1244
Left Cheek	GSM1900	0.2750	0.0933	0.3683
Left Tilted	GSM1900	0.0427	0.0933	0.136
Right Cheek	WCDMA Band 2	0.2647	0.0933	0.358
Right Tilted	WCDMA Band 2	0.0779	0.0933	0.1712
Left Cheek	WCDMA Band 2	0.6563	0.0933	0.7496
Left Tilted	WCDMA Band 2	0.0872	0.0933	0.1805
Right Cheek	WCDMA Band 5	0.3398	0.0933	0.4331
Right Tilted	WCDMA Band 5	0.2474	0.0933	0.3407
Left Cheek	WCDMA Band 5	0.4290	0.0933	0.5223
Left Tilted	WCDMA Band 5	0.3100	0.0933	0.4033
Right Cheek	LTE Band 5	0.2469	0.0933	0.3402
Right Tilted	LTE Band 5	0.2506	0.0933	0.3439
Left Cheek	LTE Band 5	0.3906	0.0933	0.4839
Left Tilted	LTE Band 5	0.2632	0.0933	0.3565
Right Cheek	LTE Band 7	0.2825	0.0933	0.3758
Right Tilted	LTE Band 7	0.0396	0.0933	0.1329
Left Cheek	LTE Band 7	0.1865	0.0933	0.2798
Left Tilted	LTE Band 7	0.0287	0.0933	0.1220
Right Cheek	LTE Band 17	0.0729	0.0933	0.1662
Right Tilted	LTE Band 17	0.0262	0.0933	0.1195
Left Cheek	LTE Band 17	0.0862	0.0933	0.1795
Left Tilted	LTE Band 17	0.0364	0.0933	0.1297
Right Cheek	LTE Band 41	0.1206	0.0933	0.2139
Right Tilted	LTE Band 41	0.0266	0.0933	0.1199
Left Cheek	LTE Band 41	0.2276	0.0933	0.3209
Left Tilted	LTE Band 41	0.0256	0.0933	0.1189

Body-worn SAR
WWAN and WLAN

Position	WWAN		WLAN	Summed SAR (W/kg)
	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM850	0.8766	0.0903	0.9669
Front	GSM850	0.2696	0.0321	0.3017
Back	GSM1900	0.2503	0.0903	0.3406
Front	GSM1900	0.1841	0.0321	0.2162
Back	WCDMA Band 2	0.5129	0.0903	0.6032
Front	WCDMA Band 2	0.3993	0.0321	0.4314
Back	WCDMA Band 5	0.8088	0.0903	0.8991
Front	WCDMA Band 5	0.2487	0.0321	0.2808
Back	LTE Band 5	0.7599	0.0903	0.8502
Front	LTE Band 5	0.4276	0.0321	0.4597
Back	LTE Band 7	0.1727	0.0903	0.2630
Front	LTE Band 7	0.1681	0.0321	0.2002
Back	LTE Band 17	0.0847	0.0903	0.1750
Front	LTE Band 17	0.0215	0.0321	0.0536
Back	LTE Band 41	0.2827	0.0903	0.3730
Front	LTE Band 41	0.2276	0.0321	0.2597

WWAN and Bluetooth

Position	WWAN		Bluetooth	Summed SAR (W/kg)
	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM850	0.8766	0.0467	0.9233
Front	GSM850	0.2696	0.0467	0.3163
Back	GSM1900	0.2503	0.0467	0.297
Front	GSM1900	0.1841	0.0467	0.2308
Back	WCDMA Band 2	0.5129	0.0467	0.5596
Front	WCDMA Band 2	0.3993	0.0467	0.446
Back	WCDMA Band 5	0.8088	0.0467	0.8555
Front	WCDMA Band 5	0.2487	0.0467	0.2954
Back	LTE Band 5	0.7599	0.0467	0.8066
Front	LTE Band 5	0.4276	0.0467	0.4743
Back	LTE Band 7	0.1727	0.0467	0.2194
Front	LTE Band 7	0.1681	0.0467	0.2148
Back	LTE Band 17	0.0847	0.0467	0.1314
Front	LTE Band 17	0.0215	0.0467	0.0682
Back	LTE Band 41	0.2827	0.0467	0.3294
Front	LTE Band 41	0.2276	0.0467	0.2743

Hotspot SAR
WWAN and WLAN

Position	WWAN		WLAN	Summed SAR (W/kg)
	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM850	0.2402	0.0903	0.3305
Front	GSM850	0.1601	0.0321	0.1922
Top side	GSM850	--	0.0162	0.0162
Bottom side	GSM850	0.1315	--	0.1315
Right side	GSM850	0.0658	0.0297	0.0955
Left side	GSM850	0.0676	--	0.0676
Back	GSM1900	0.2402	0.0903	0.3305
Front	GSM1900	0.0633	0.0321	0.0954
Top side	GSM1900	--	0.0162	0.0162
Bottom side	GSM1900	0.1163	--	0.1163
Right side	GSM1900	0.0227	0.0297	0.0524
Left side	GSM1900	0.0273	--	0.0273
Back	WCDMA Band 2	0.5129	0.0903	0.6032
Front	WCDMA Band 2	0.3993	0.0321	0.4314
Top side	WCDMA Band 2	--	0.0162	0.0162
Bottom side	WCDMA Band 2	0.3324	--	0.3324
Right side	WCDMA Band 2	0.2252	0.0297	0.2549
Left side	WCDMA Band 2	0.1292	--	0.1292
Back	WCDMA Band 5	0.8088	0.0903	0.8991
Front	WCDMA Band 5	0.2487	0.0321	0.2808
Top side	WCDMA Band 5	--	0.0162	0.0162
Bottom side	WCDMA Band 5	0.4287	--	0.4287
Right side	WCDMA Band 5	0.5761	0.0297	0.6058
Left side	WCDMA Band 5	0.4904	--	0.4904
Back	LTE Band 5	0.7599	0.0903	0.8502
Front	LTE Band 5	0.4276	0.0321	0.4597
Top side	LTE Band 5	--	0.0162	0.0162
Bottom side	LTE Band 5	0.2718	--	0.2718
Right side	LTE Band 5	0.1195	0.0297	0.1492
Left side	LTE Band 5	0.4287	--	0.4287
Back	LTE Band 7	0.1727	0.0903	0.2630
Front	LTE Band 7	0.1681	0.0321	0.2002
Top side	LTE Band 7	--	0.0162	0.0162
Bottom side	LTE Band 7	0.1734	--	0.1734
Right side	LTE Band 7	0.1672	0.0297	0.1969
Left side	LTE Band 7	0.1699	--	0.1699
Front	LTE Band 17	0.0215	0.0321	0.0536

Top side	LTE Band 17	--	0.0162	0.0162
Bottom side	LTE Band 17	0.0076	--	0.0076
Right side	LTE Band 17	0.0163	0.0297	0.0460
Left side	LTE Band 17	0.0076	--	0.0076
Back	LTE Band 41	0.2827	0.0903	0.3730
Front	LTE Band 41	0.2276	0.0321	0.2597
Top side	LTE Band 41	--	0.0162	0.0162
Bottom side	LTE Band 41	0.0774	--	0.0774
Right side	LTE Band 41	0.1004	0.0297	0.1301
Left side	LTE Band 41	0.0137	--	0.0137

WWAN and Bluetooth

Position	WWAN		Bluetooth	Summed SAR (W/kg)
	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM850	0.2402	0.0467	0.2869
Front	GSM850	0.1601	0.0467	0.2068
Top side	GSM850	--	0.0467	0.0467
Bottom side	GSM850	0.1315	0.0467	0.1782
Right side	GSM850	0.0658	0.0467	0.1125
Left side	GSM850	0.0676	0.0467	0.1143
Back	GSM1900	0.2402	0.0467	0.2869
Front	GSM1900	0.0633	0.0467	0.1100
Top side	GSM1900	--	0.0467	0.0467
Bottom side	GSM1900	0.1163	0.0467	0.1630
Right side	GSM1900	0.0227	0.0467	0.0694
Left side	GSM1900	0.0273	0.0467	0.0740
Back	WCDMA Band 2	0.5129	0.0467	0.5596
Front	WCDMA Band 2	0.3993	0.0467	0.4460
Top side	WCDMA Band 2	--	0.0467	0.0467
Bottom side	WCDMA Band 2	0.3324	0.0467	0.3791
Right side	WCDMA Band 2	0.2252	0.0467	0.2719
Left side	WCDMA Band 2	0.1292	0.0467	0.1759
Back	WCDMA Band 5	0.8088	0.0467	0.8555
Front	WCDMA Band 5	0.2487	0.0467	0.2954
Top side	WCDMA Band 5	--	0.0467	0.0467
Bottom side	WCDMA Band 5	0.4287	0.0467	0.4754
Right side	WCDMA Band 5	0.5761	0.0467	0.6228
Left side	WCDMA Band 5	0.4904	0.0467	0.5371
Back	LTE Band 5	0.7599	0.0467	0.8066
Front	LTE Band 5	0.4276	0.0467	0.4743
Top side	LTE Band 5	--	0.0467	0.0467
Bottom side	LTE Band 5	0.2718	0.0467	0.3185

Right side	LTE Band 5	0.1195	0.0467	0.1662
Left side	LTE Band 5	0.4287	0.0467	0.4754
Back	LTE Band 7	0.1727	0.0467	0.2194
Front	LTE Band 7	0.1681	0.0467	0.2148
Top side	LTE Band 7	--	0.0467	0.0467
Bottom side	LTE Band 7	0.1734	0.0467	0.2201
Right side	LTE Band 7	0.1672	0.0467	0.2139
Left side	LTE Band 7	0.1699	0.0467	0.2166
Back	LTE Band 17	0.0847	0.0467	0.1314
Front	LTE Band 17	0.0215	0.0467	0.0682
Top side	LTE Band 17	--	0.0467	0.0467
Bottom side	LTE Band 17	0.0076	0.0467	0.0543
Right side	LTE Band 17	0.0163	0.0467	0.063
Left side	LTE Band 17	0.0076	0.0467	0.0543
Back	LTE Band 41	0.2827	0.0467	0.3294
Front	LTE Band 41	0.2276	0.0467	0.2743
Top side	LTE Band 41	--	0.0467	0.0467
Bottom side	LTE Band 41	0.0774	0.0467	0.1241
Right side	LTE Band 41	0.1004	0.0467	0.1471
Left side	LTE Band 41	0.0137	0.0467	0.0604

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 Algoritms 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 Algoritm 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: 06/12/2015

Measurement duration: 7 minutes 21 seconds

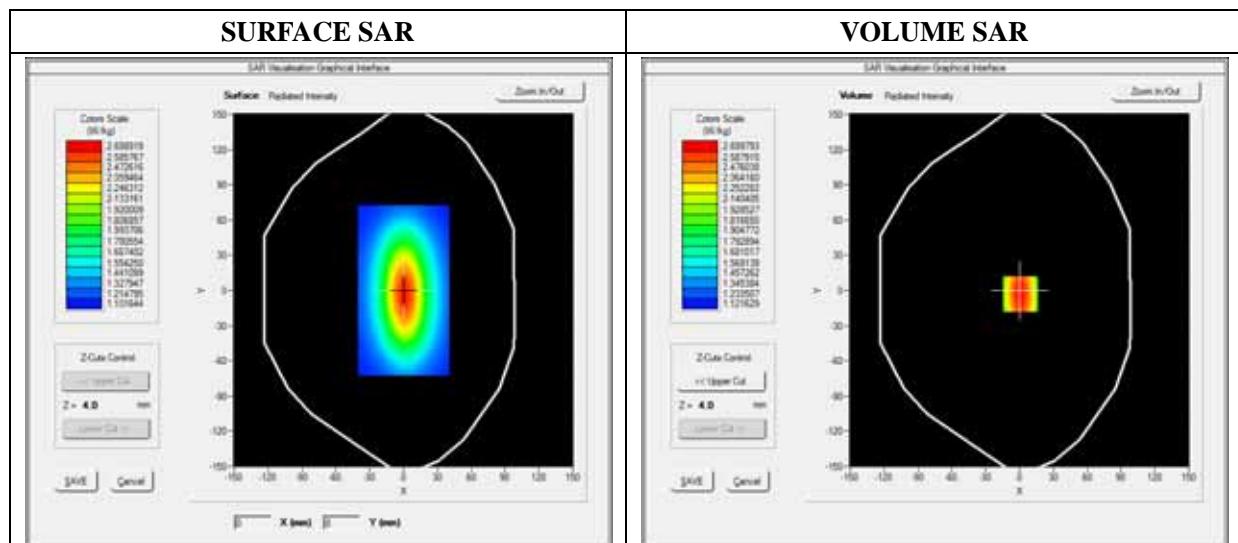
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.99; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

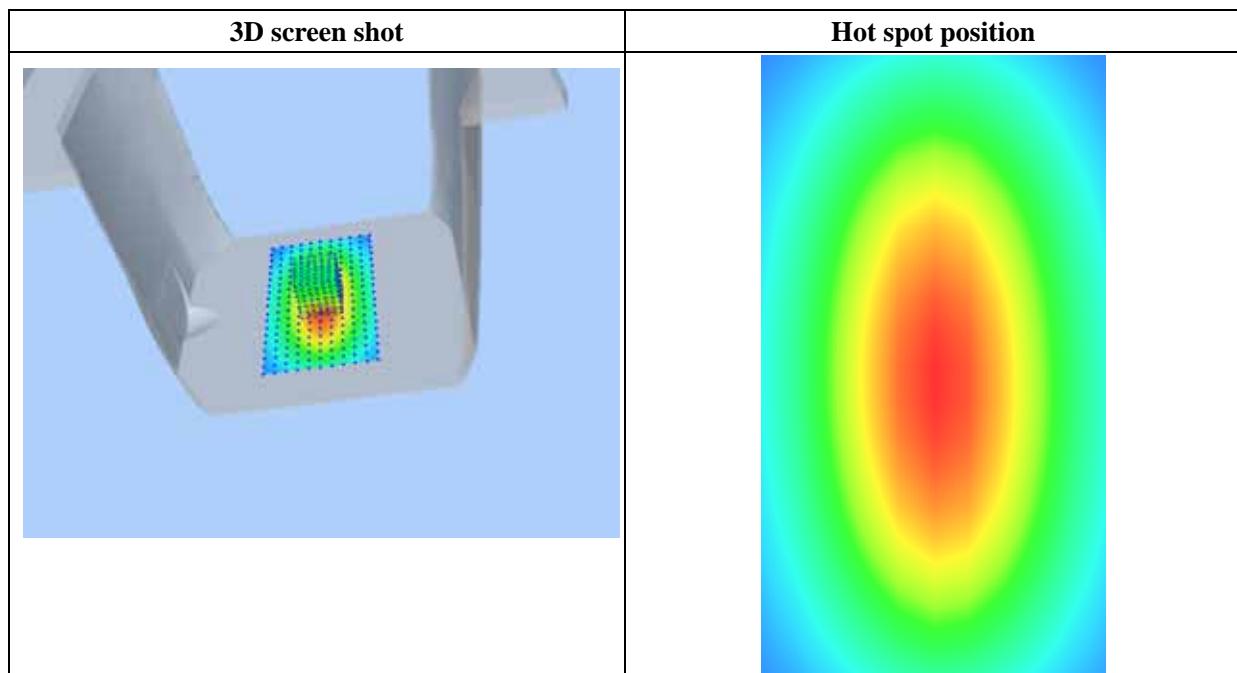
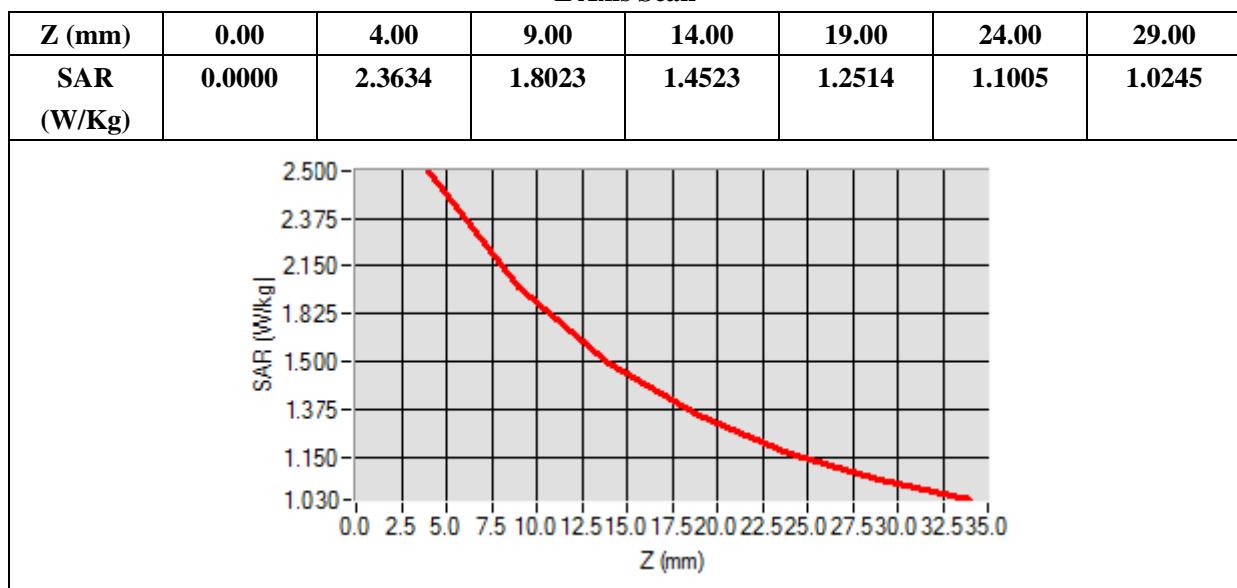
Frequency (MHz)	750.000000
Relative Permittivity (real part)	41.320574
Conductivity (S/m)	0.862373
Power Variation (%)	0.038363
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.042744
SAR 1g (W/Kg)	2.104534

Z Axis Scan



MEASUREMENT 2

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 06/12/2015

Measurement duration: 7 minutes 21 seconds

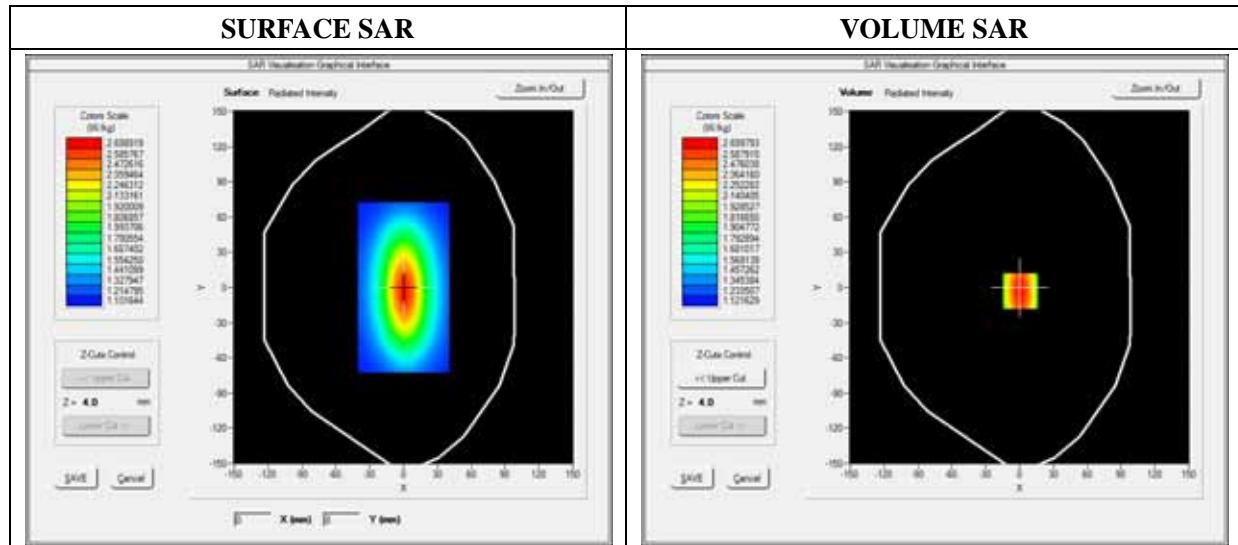
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

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

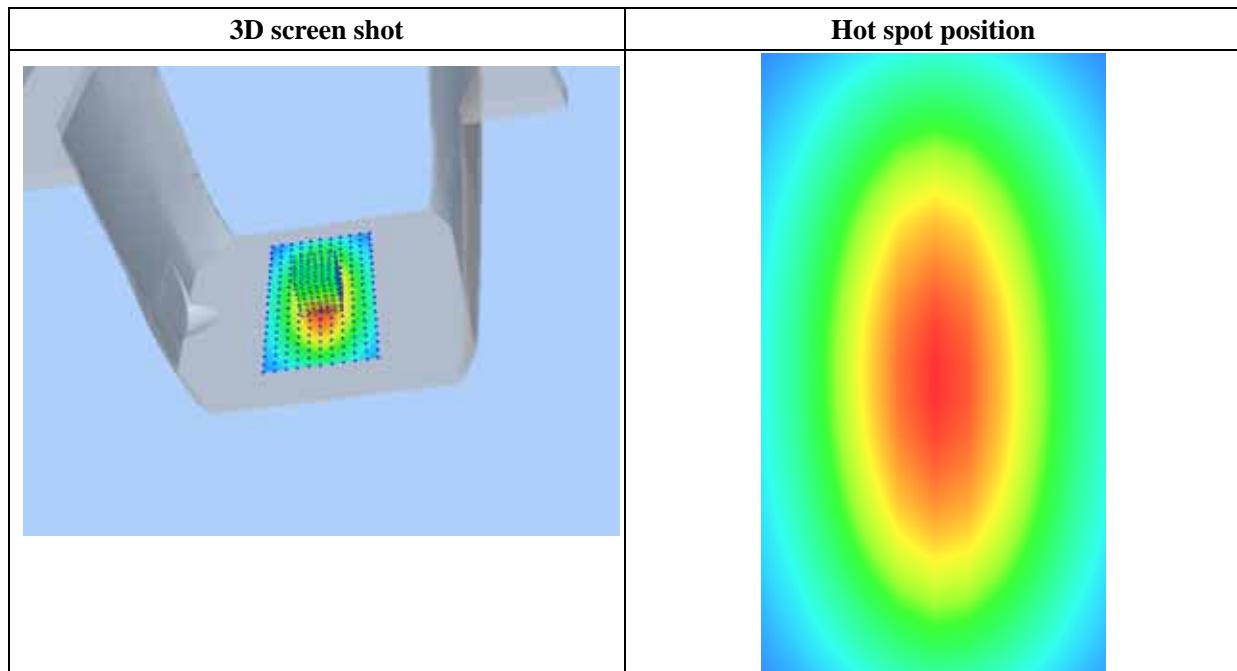
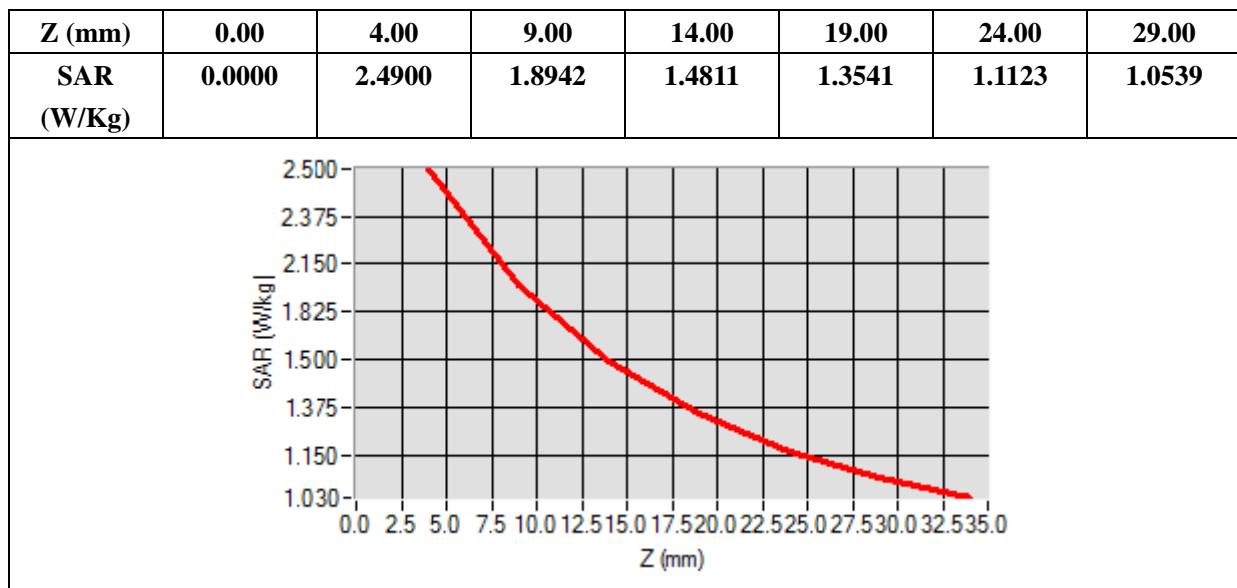
Frequency (MHz)	835.000000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	0.038437
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.129489
SAR 1g (W/Kg)	2.411253

Z Axis Scan



MEASUREMENT 3

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 21 seconds

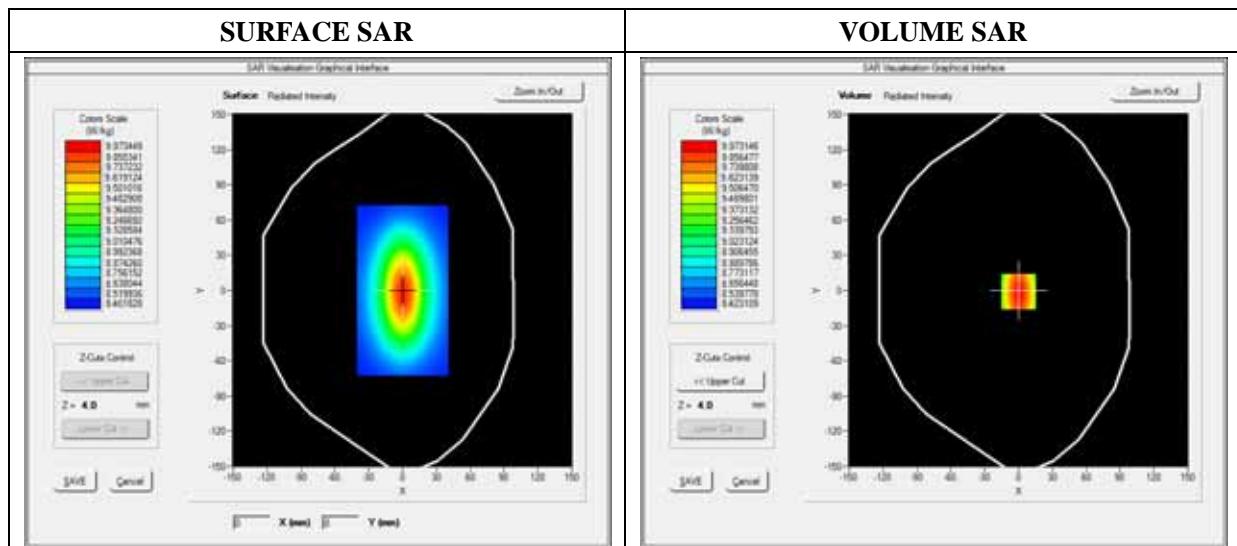
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

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

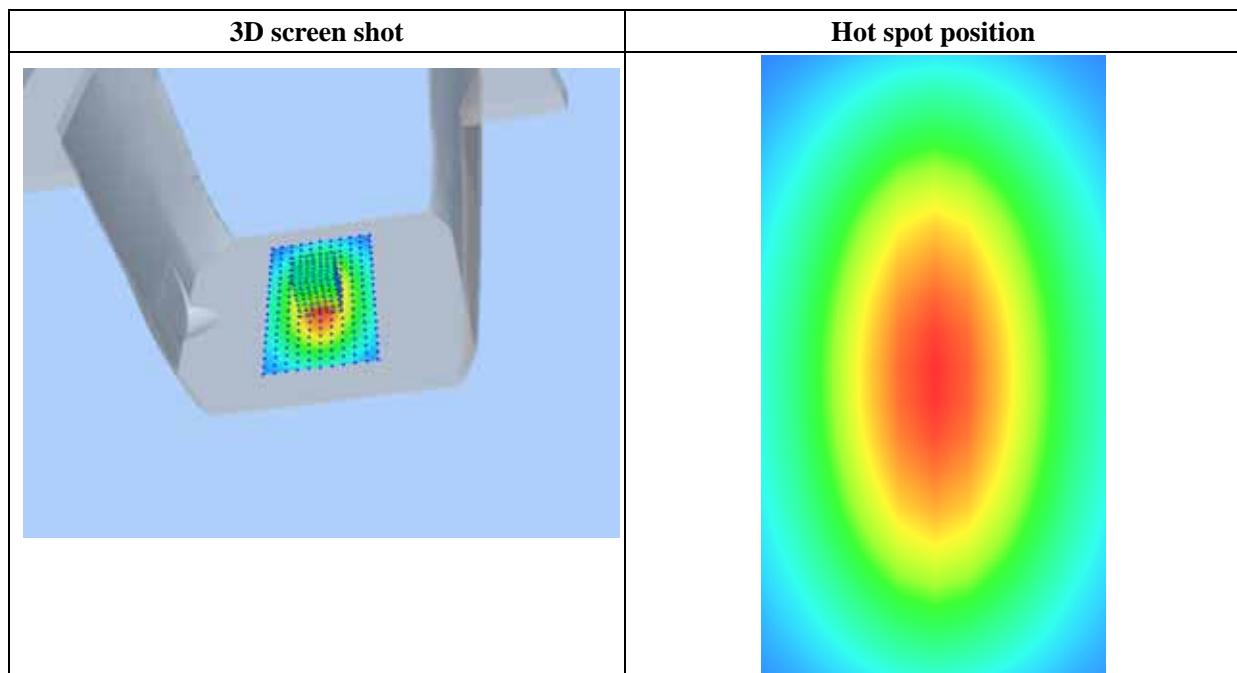
Frequency (MHz)	1900.000000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.022540
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=0.00

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

Z Axis Scan



MEASUREMENT 4

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 21 seconds

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

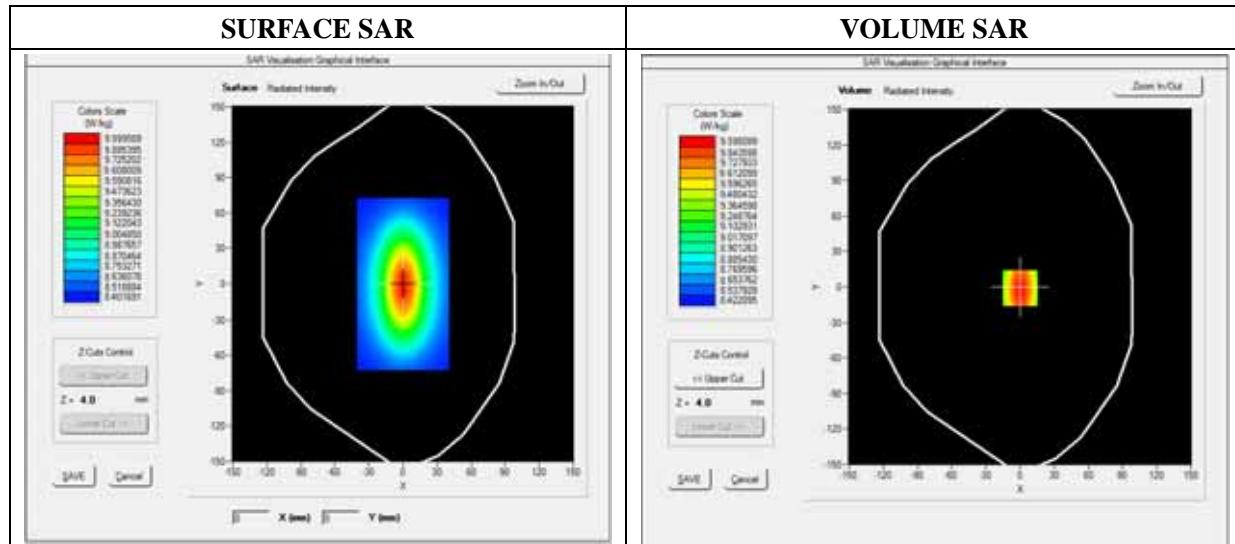
A. Experimental conditions

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

B. SAR Measurement Results

Middle Band SAR

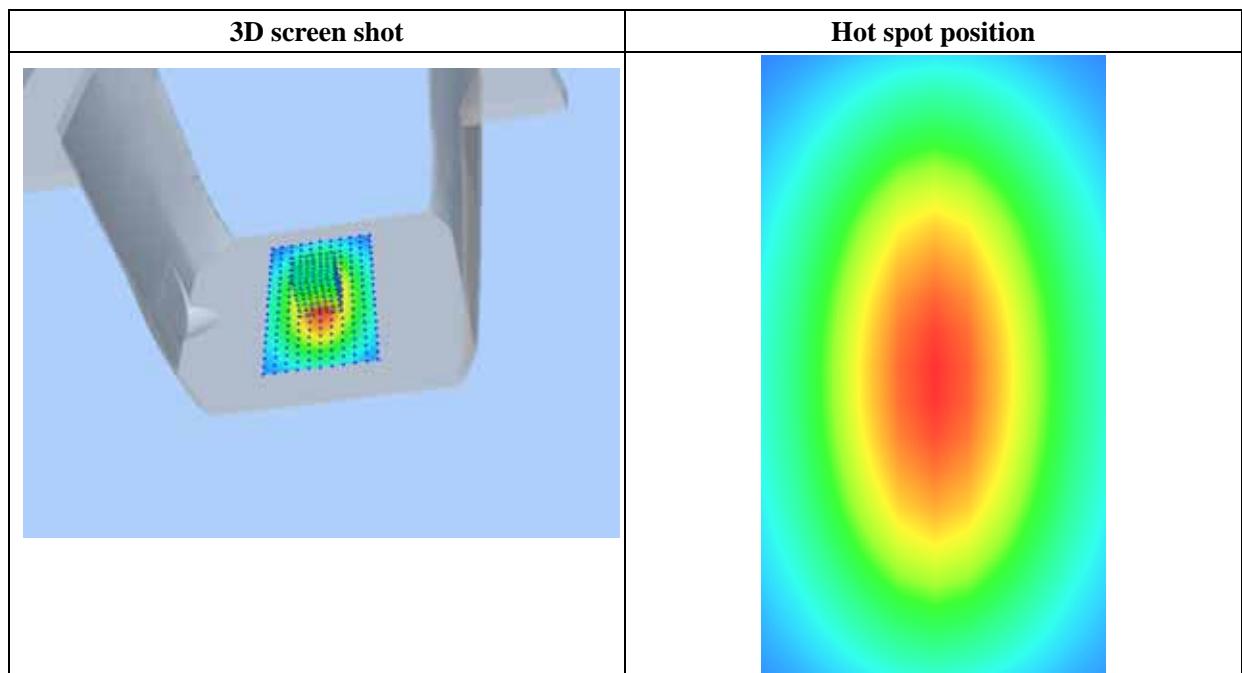
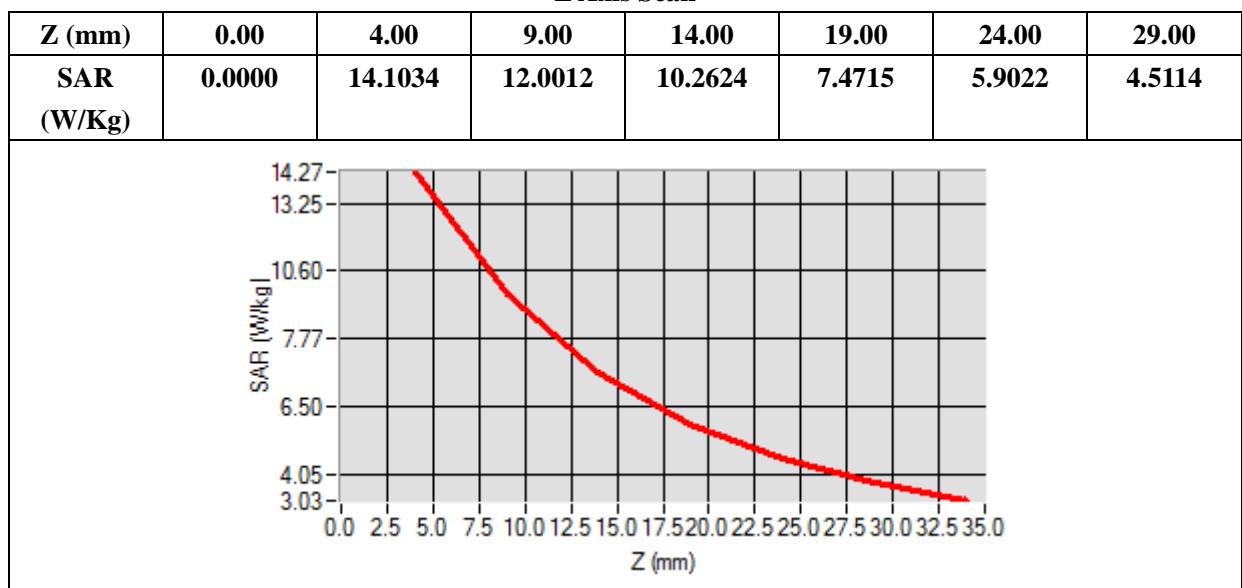
Frequency (MHz)	2450.000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	1.141452
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	8.020427
SAR 1g (W/Kg)	13.132457

Z Axis Scan



MEASUREMENT 5

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 21 seconds

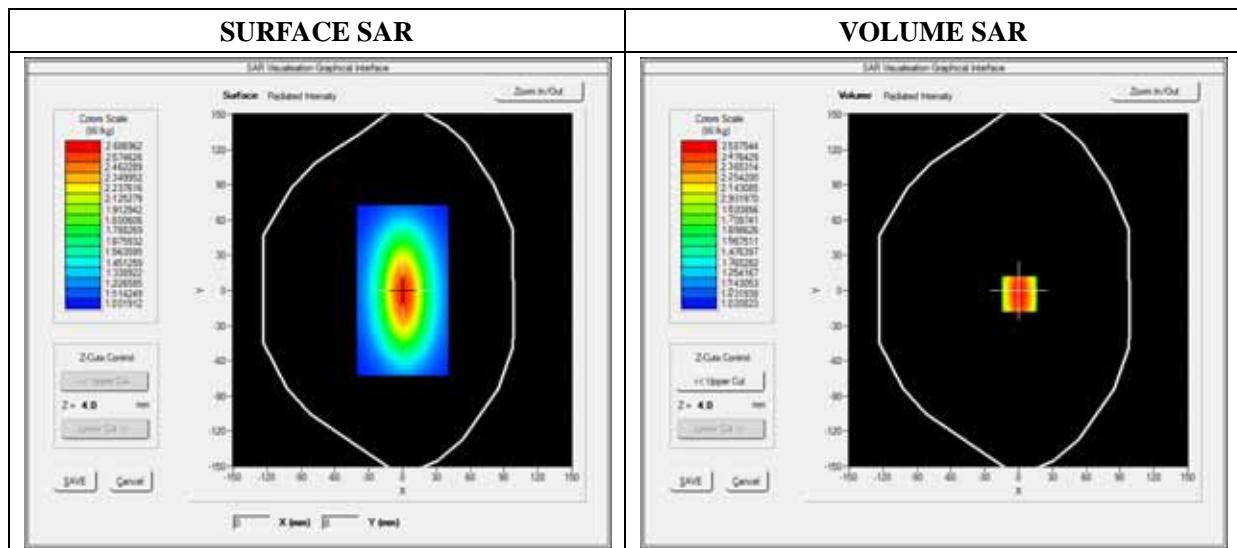
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.28; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

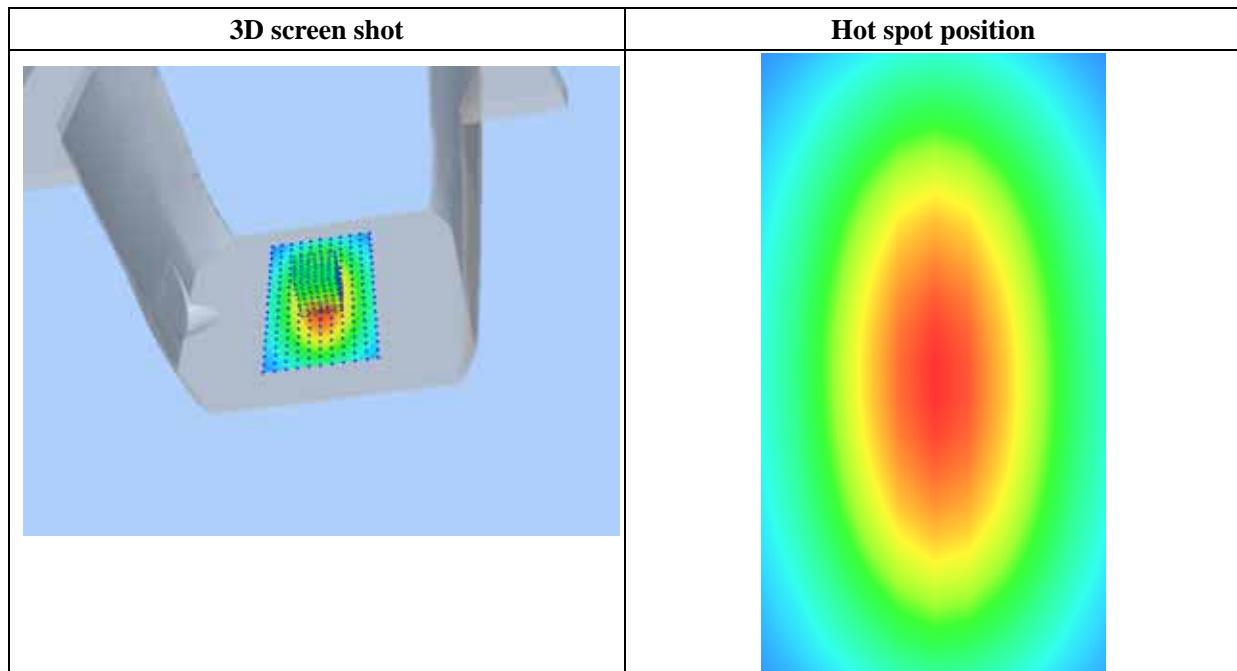
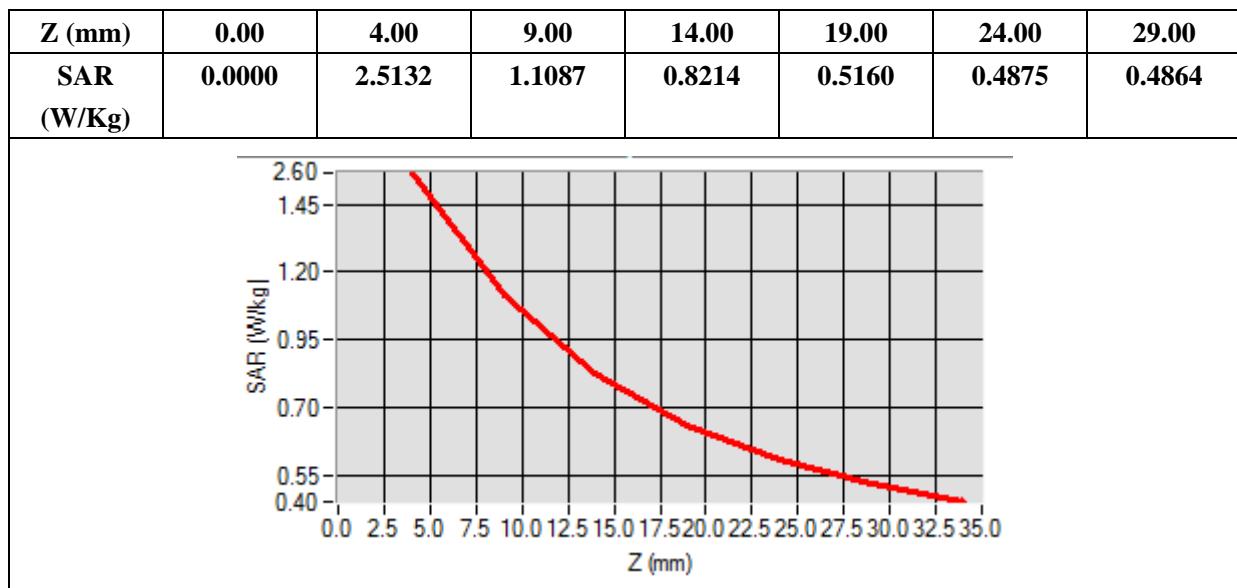
Frequency (MHz)	750.000000
Relative Permittivity (real part)	54.964739
Conductivity (S/m)	0.9310484
Power Variation (%)	0.034745
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.000865
SAR 1g (W/Kg)	2.344211

Z Axis Scan



MEASUREMENT 6

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 21 seconds

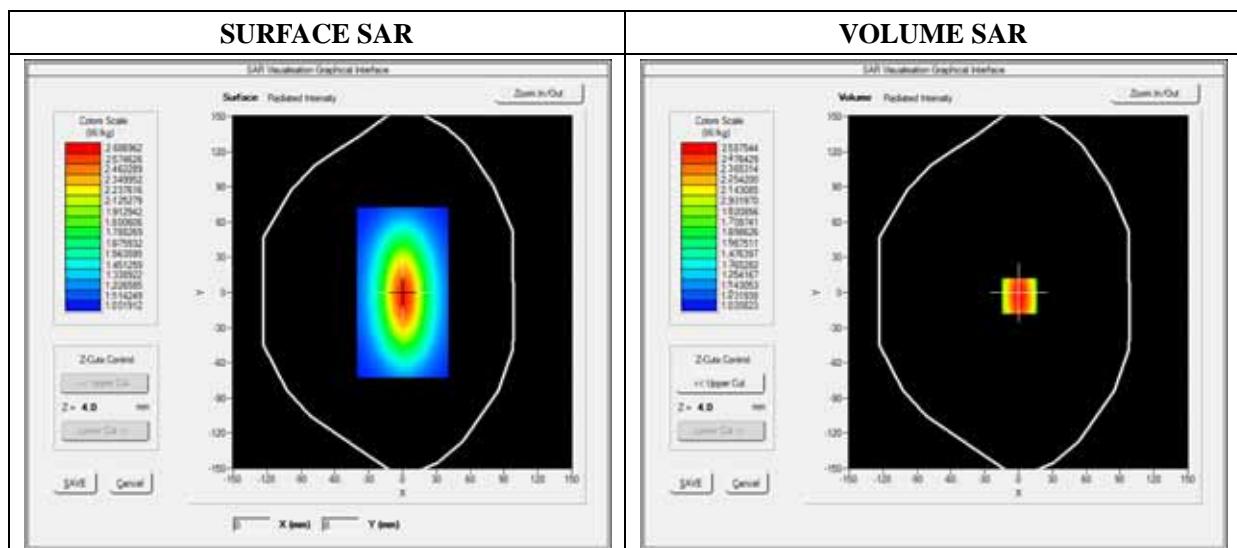
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

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

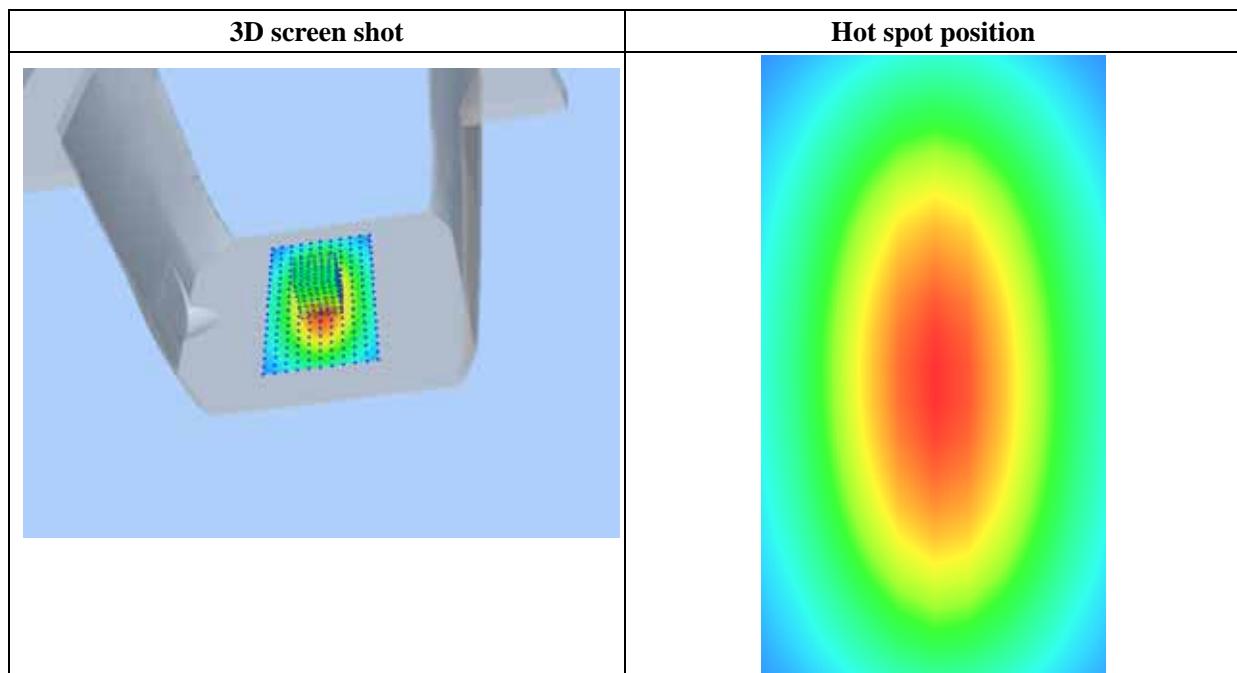
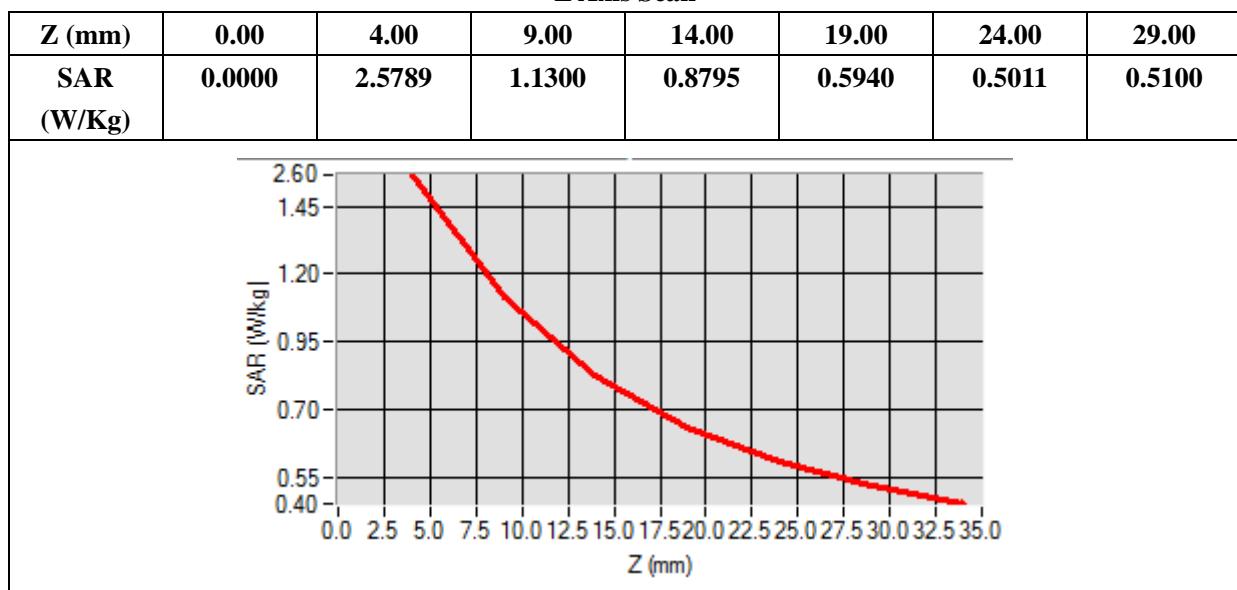
Frequency (MHz)	835.000000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=0.00

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

Z Axis Scan



MEASUREMENT 7

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 21 seconds

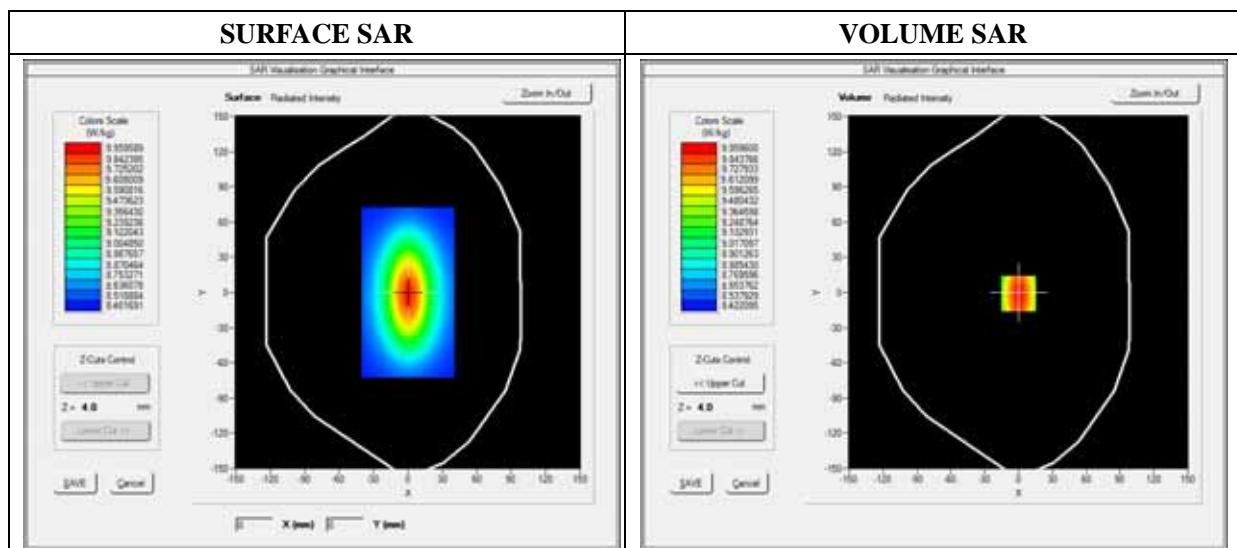
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

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

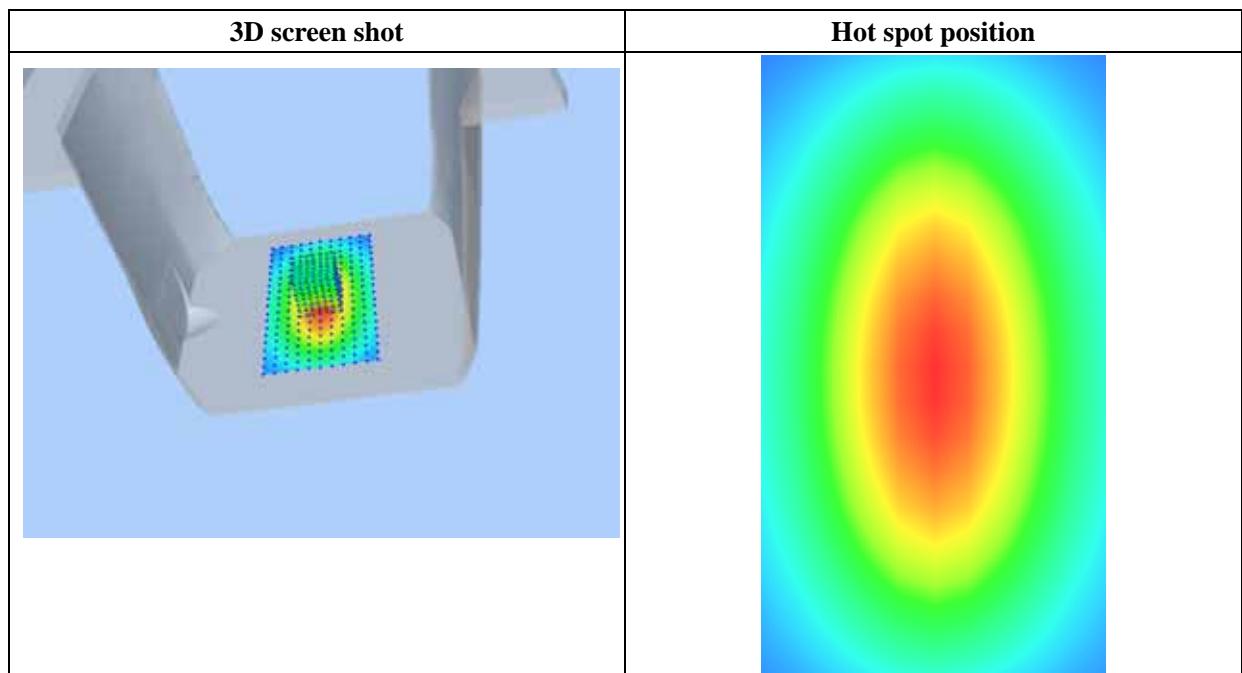
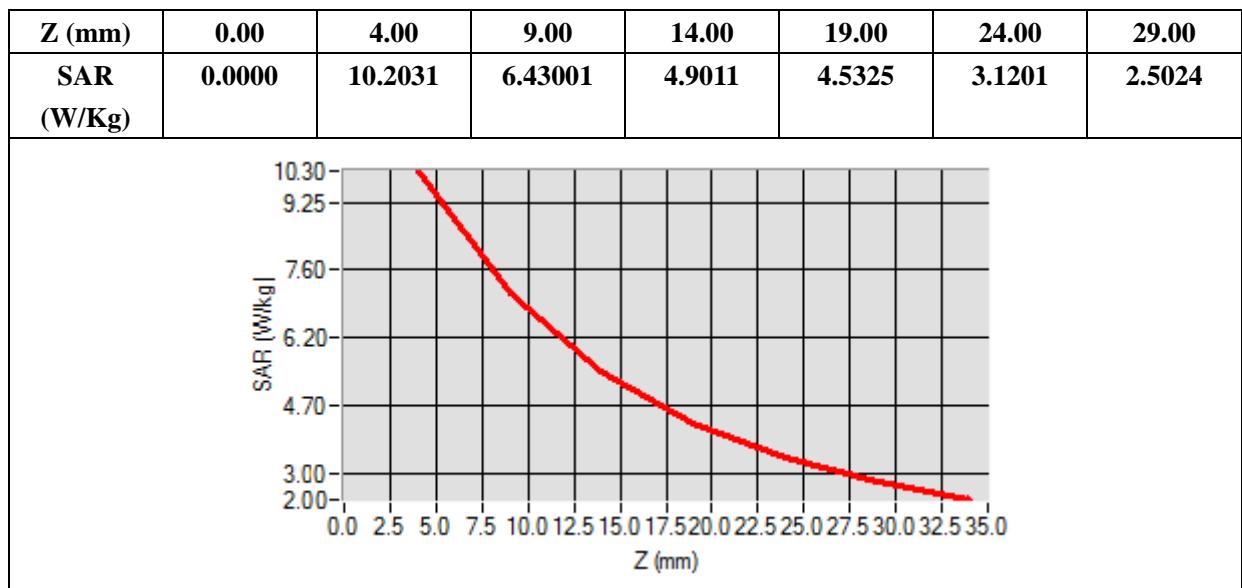
Frequency (MHz)	1900.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.541872
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=0.00

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

Z Axis Scan



MEASUREMENT 8

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 21 seconds

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

A. Experimental conditions

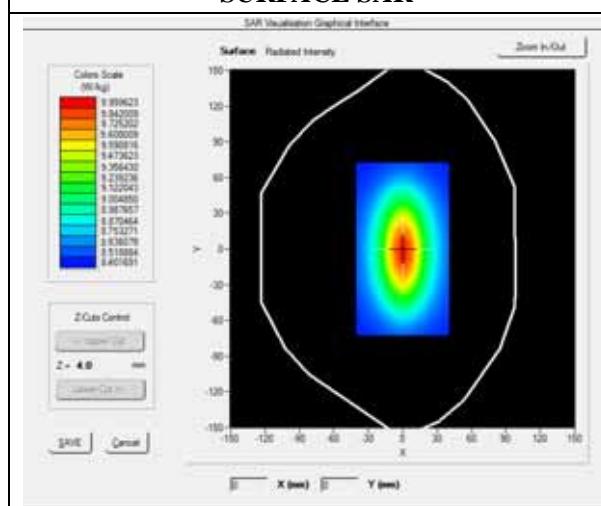
Area Scan	dx=8mm dy=8mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

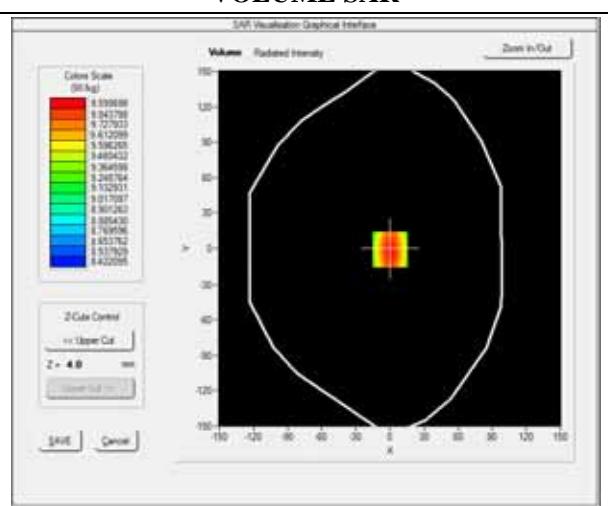
Middle Band SAR

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

SURFACE SAR



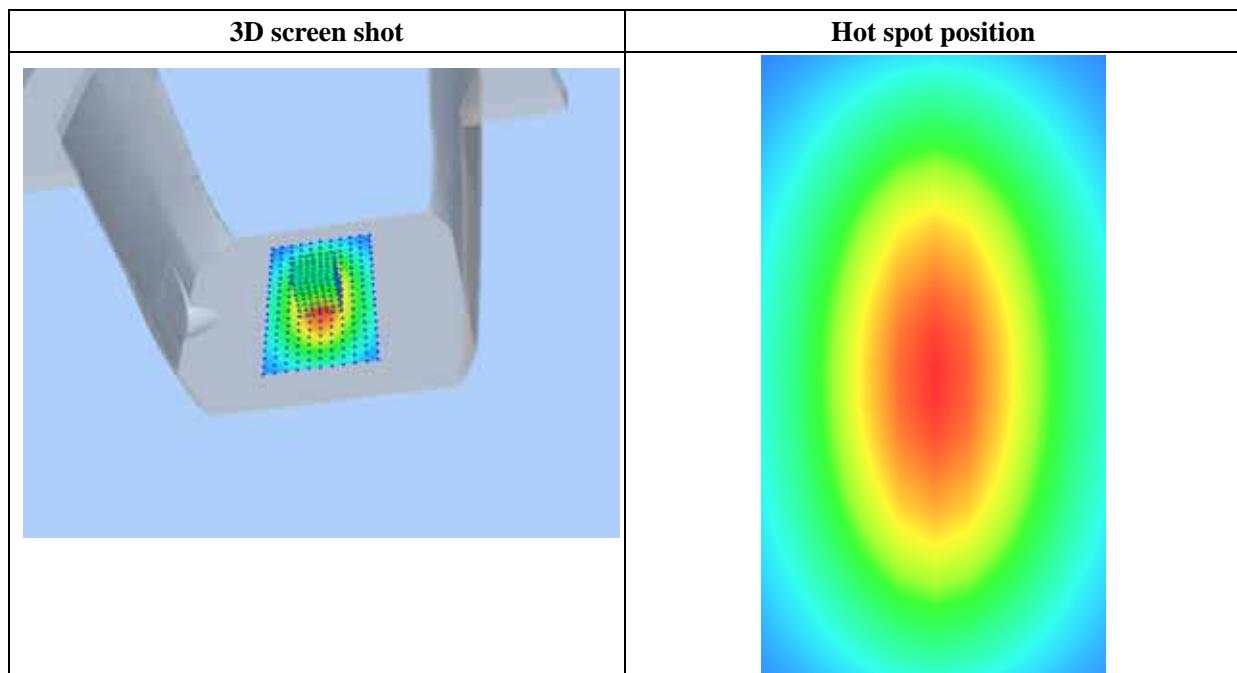
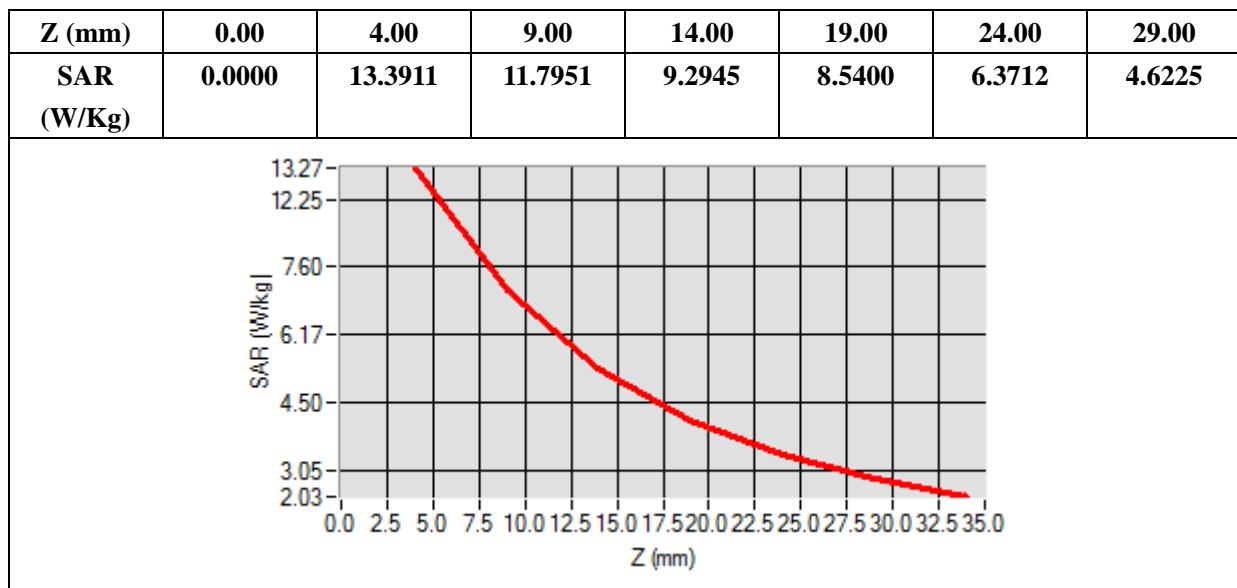
VOLUME SAR



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	7.119522
SAR 1g (W/Kg)	12.95236

Z Axis Scan



Annex B. Plots of SAR Measurement

Main board:

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
4G Hotspot	GSM850	<u>Measurement 1:</u> Right Head with Cheek device position on Middle Channel in GSM mode
4G Hotspot	GSM850	<u>Measurement 2:</u> Right Head with Tilt device position on Middle Channel in GSM mode
4G Hotspot	GSM850	<u>Measurement 3:</u> Left Head with Cheek device position on Middle Channel in GSM mode
4G Hotspot	GSM850	<u>Measurement 4:</u> Left Head with Tilt device position on Middle Channel in GSM mode
4G Hotspot	GSM850	<u>Measurement 5:</u> Flat Plane with Back(Body-worn) device position on Middle Channel in GSM mode
4G Hotspot	GSM850	<u>Measurement 6:</u> Flat Plane with Front(Body-worn) device position on Middle Channel in GSM mode
4G Hotspot	GPRS850_2TX	<u>Measurement 7:</u> Flat Plane with Back device position on Middle Channel in GPRS mode
4G Hotspot	GPRS850_2TX	<u>Measurement 8:</u> Flat Plane with Front device position on Middle Channel in GPRS mode
4G Hotspot	GPRS850_2TX	<u>Measurement 9:</u> Flat Plane with Bottom side device position on Middle Channel in GPRS mode
4G Hotspot	GPRS850_2TX	<u>Measurement 10:</u> Flat Plane with Right side device position on Middle Channel in GPRS mode
4G Hotspot	GPRS850_2TX	<u>Measurement 11:</u> Flat Plane with Left side device position on Middle Channel in GPRS mode
4G Hotspot	GSM1900	<u>Measurement 12:</u> Right Head with Cheek device position on Low Channel in GSM mode
4G Hotspot	GSM1900	<u>Measurement 13:</u> Right Head with Tilt device position on Low Channel in GSM mode
4G Hotspot	GSM1900	<u>Measurement 14:</u> Left Head with Cheek device position on Low Channel in GSM mode
4G Hotspot	GSM1900	<u>Measurement 15:</u> Left Head with Tilt device position on Low Channel in GSM mode
4G Hotspot	GSM1900	<u>Measurement 16:</u> Flat Plane with Back(Body-worn) device position on Low Channel in GSM mode
4G Hotspot	GSM1900	<u>Measurement 17:</u> Flat Plane with Front(Body-worn) device position on Low Channel in GSM mode
4G Hotspot	GPRS1900_2TX	<u>Measurement 18:</u> Flat Plane with Back device position on Middle Channel in GPRS mode
4G Hotspot	GPRS1900_2TX	<u>Measurement 19:</u> Flat Plane with Front device position on Middle Channel in GPRS mode

4G Hotspot	GPRS1900_2TX	Measurement 20: Flat Plane with Bottom side device position on Middle Channel in GPRS mode
4G Hotspot	GPRS1900_2TX	Measurement 21: Flat Plane with Right side device position on Middle Channel in GPRS mode
4G Hotspot	GPRS1900_2TX	Measurement 22: Flat Plane with Left side device position on Middle Channel in GPRS mode
4G Hotspot	WCDMA1900_RMC	Measurement 23: Right Head with Cheek device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	Measurement 24: Right Head with Tilt device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	Measurement 25: Left Head with Cheek device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	Measurement 26: Left Head with Tilt device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	Measurement 27: Flat Plane with Back device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	Measurement 28: Flat Plane with Front device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	Measurement 29: Flat Plane with Bottom side device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	Measurement 30: Flat Plane with Right side device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	Measurement 31: Flat Plane with Left side device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	Measurement 32: Right Head with Cheek device position on Middle Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	Measurement 33: Right Head with Tilt device position on Middle Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	Measurement 34: Left Head with Cheek device position on Middle Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	Measurement 35: Left Head with Tilt device position on Middle Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	Measurement 36: Flat Plane with Back device position on Middle Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	Measurement 37: Flat Plane with Front device position on Middle Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	Measurement 38: Flat Plane with Top side device position on Middle Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	Measurement 39: Flat Plane with Right side device position on High Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	Measurement 40: Flat Plane with Left side device position on Middle Channel in WCDMA mode
4G Hotspot	LTE Band 5_RMC	Measurement 41: Right Head with Cheek device

		position on Low Channel in LTE mode
4G Hotspot	LTE Band 5_RMC	<u>Measurement 42:</u> Right Head with Tilt device position on Low Channel in LTE mode
4G Hotspot	LTE Band 5_RMC	<u>Measurement 43:</u> Left Head with Cheek device position on Low Channel in LTE mode
4G Hotspot	LTE Band 5_RMC	<u>Measurement 44:</u> Left Head with Tilt device position on Low Channel in LTE mode
4G Hotspot	LTE Band 5_RMC	<u>Measurement 45:</u> Flat Plane with Back device position on Low Channel in LTE mode
4G Hotspot	LTE Band 5_RMC	<u>Measurement 46:</u> Flat Plane with Front device position on Low Channel in LTE mode
4G Hotspot	LTE Band 5_RMC	<u>Measurement 47:</u> Flat Plane with Bottom side device position on Low Channel in LTE mode
4G Hotspot	LTE Band 5_RMC	<u>Measurement 48:</u> Flat Plane with Right side device position on Low Channel in LTE mode
4G Hotspot	LTE Band 5_RMC	<u>Measurement 49:</u> Flat Plane with Left side device position on Low Channel in LTE mode
4G Hotspot	LTE Band 17_RMC	<u>Measurement 50:</u> Right Head with Cheek device position on Low Channel in LTE mode
4G Hotspot	LTE Band 17_RMC	<u>Measurement 51:</u> Right Head with Tilt device position on Low Channel in LTE mode
4G Hotspot	LTE Band 17_RMC	<u>Measurement 52:</u> Left Head with Cheek device position on Low Channel in LTE mode
4G Hotspot	LTE Band 17_RMC	<u>Measurement 53:</u> Left Head with Tilt device position on Low Channel in LTE mode
4G Hotspot	LTE Band 17_RMC	<u>Measurement 54:</u> Flat Plane with Back device position on Low Channel in LTE mode
4G Hotspot	LTE Band 17_RMC	<u>Measurement 55:</u> Flat Plane with Front device position on Low Channel in LTE mode
4G Hotspot	LTE Band 17_RMC	<u>Measurement 56:</u> Flat Plane with Bottom side device position on Low Channel in LTE mode
4G Hotspot	LTE Band 17_RMC	<u>Measurement 57:</u> Flat Plane with Right side device position on High Channel in LTE mode
4G Hotspot	LTE Band 17_RMC	<u>Measurement 58:</u> Flat Plane with Left side device position on Low Channel in LTE mode
4G Hotspot	LTE Band 41_RMC	<u>Measurement 59:</u> Right Head with Cheek device position on Low Channel in LTE mode
4G Hotspot	LTE Band 41_RMC	<u>Measurement 60:</u> Right Head with Tilt device position on Low Channel in LTE mode
4G Hotspot	LTE Band 41_RMC	<u>Measurement 61:</u> Left Head with Cheek device position on Low Channel in LTE mode
4G Hotspot	LTE Band 41_RMC	<u>Measurement 62:</u> Left Head with Tilt device position on Low Channel in LTE mode
4G Hotspot	LTE Band 41_RMC	<u>Measurement 63:</u> Flat Plane with Back device position

		on Low Channel in LTE mode
4G Hotspot	LTE Band 41_RMC	<u>Measurement 64:</u> Flat Plane with Front device position on Low Channel in LTE mode
4G Hotspot	LTE Band 41_RMC	<u>Measurement 65:</u> Flat Plane with Bottom side device position on Low Channel in LTE mode
4G Hotspot	LTE Band 41_RMC	<u>Measurement 66:</u> Flat Plane with Right side device position on Low Channel in LTE mode
4G Hotspot	LTE Band 41_RMC	<u>Measurement 67:</u> Flat Plane with Left side device position on Low Channel in LTE mode
4G Hotspot	WiFi_802.11b	<u>Measurement 68:</u> Right Head with Cheek device position on High Channel in 802.11b mode
4G Hotspot	WiFi_802.11b	<u>Measurement 69:</u> Right Head with Tilt device position on High Channel in 802.11b mode
4G Hotspot	WiFi_802.11b	<u>Measurement 70:</u> Left Head with Cheek device position on High Channel in 802.11b mode
4G Hotspot	WiFi_802.11b	<u>Measurement 71:</u> Left Head with Tilt device position on High Channel in 802.11b mode
4G Hotspot	WiFi_802.11b	<u>Measurement 72:</u> Flat Plane with Back side device position on High Channel in 802.11b mode
4G Hotspot	WiFi_802.11b	<u>Measurement 73:</u> Flat Plane with Front side device position on High Channel in 802.11b mode
4G Hotspot	WiFi_802.11b	<u>Measurement 74:</u> Flat Plane with Left side device position on High Channel in 802.11b mode
4G Hotspot	WiFi_802.11b	<u>Measurement 75:</u> Flat Plane with Bottom side device position on High Channel in 802.11b mode
4G Hotspot	LTE Band 7_RMC	<u>Measurement 96:</u> Right Head with Cheek device position on Low Channel in LTE mode
4G Hotspot	LTE Band 7_RMC	<u>Measurement 97:</u> Right Head with Tilt device position on Low Channel in LTE mode
4G Hotspot	LTE Band 7_RMC	<u>Measurement 98:</u> Left Head with Cheek device position on Low Channel in LTE mode
4G Hotspot	LTE Band 7_RMC	<u>Measurement 99:</u> Left Head with Tilt device position on Low Channel in LTE mode
4G Hotspot	LTE Band 7_RMC	<u>Measurement 100:</u> Flat Plane with Back device position on Low Channel in LTE mode
4G Hotspot	LTE Band 7_RMC	<u>Measurement 101:</u> Flat Plane with Front device position on Low Channel in LTE mode
4G Hotspot	LTE Band 7_RMC	<u>Measurement 102:</u> Flat Plane with Bottom side device position on Low Channel in LTE mode
4G Hotspot	LTE Band 7_RMC	<u>Measurement 103:</u> Flat Plane with Right side device position on Low Channel in LTE mode
4G Hotspot	LTE Band 7_RMC	<u>Measurement 104:</u> Flat Plane with Left side device position on Low Channel in LTE mode

Vice board:

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
4G Hotspot	GPRS850_2TX	<u>Measurement 76:</u> Flat Plane with Back device position on High Channel in GPRS mode
4G Hotspot	GPRS850_2TX	<u>Measurement 77:</u> Flat Plane with Front device position on High Channel in GPRS mode
4G Hotspot	GPRS850_2TX	<u>Measurement 78:</u> Flat Plane with Top side device position on High Channel in GPRS mode
4G Hotspot	GPRS850_2TX	<u>Measurement 79:</u> Flat Plane with Right side device position on High Channel in GPRS mode
4G Hotspot	GPRS850_2TX	<u>Measurement 80:</u> Flat Plane with Left side device position on High Channel in GPRS mode
4G Hotspot	GPRS1900_2TX	<u>Measurement 81:</u> Flat Plane with Back device position on Middle Channel in GPRS mode
4G Hotspot	GPRS1900_2TX	<u>Measurement 82:</u> Flat Plane with Front device position on Middle Channel in GPRS mode
4G Hotspot	GPRS1900_2TX	<u>Measurement 83:</u> Flat Plane with Top side device position on Middle Channel in GPRS mode
4G Hotspot	GPRS1900_2TX	<u>Measurement 84:</u> Flat Plane with Right side device position on Middle Channel in GPRS mode
4G Hotspot	GPRS1900_2TX	<u>Measurement 85:</u> Flat Plane with Left side device position on Middle Channel in GPRS mode
4G Hotspot	WCDMA1900_RMC	<u>Measurement 86:</u> Flat Plane with Back device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	<u>Measurement 87:</u> Flat Plane with Front device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	<u>Measurement 88:</u> Flat Plane with Top side device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	<u>Measurement 89:</u> Flat Plane with Right side device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA1900_RMC	<u>Measurement 90:</u> Flat Plane with Left side device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	<u>Measurement 91:</u> Flat Plane with Back device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	<u>Measurement 92:</u> Flat Plane with Front device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	<u>Measurement 93:</u> Flat Plane with Top side device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	<u>Measurement 94:</u> Flat Plane with Right side device position on Low Channel in WCDMA mode
4G Hotspot	WCDMA850_RMC	<u>Measurement 95:</u> Flat Plane with Left side device position on Low Channel in WCDMA mode

Main board

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

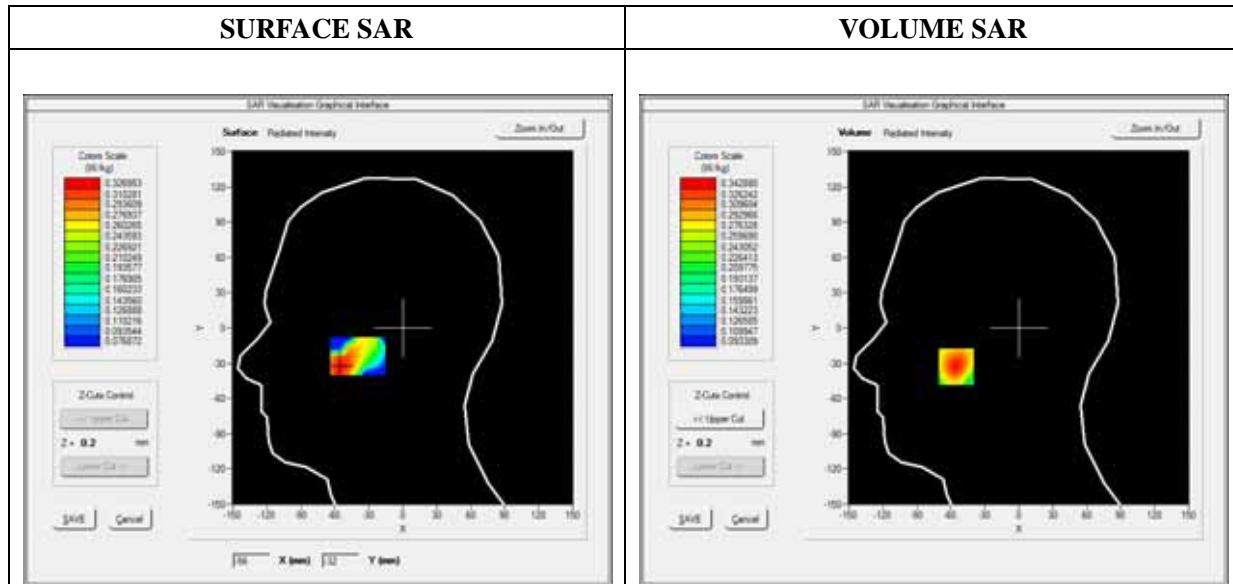
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

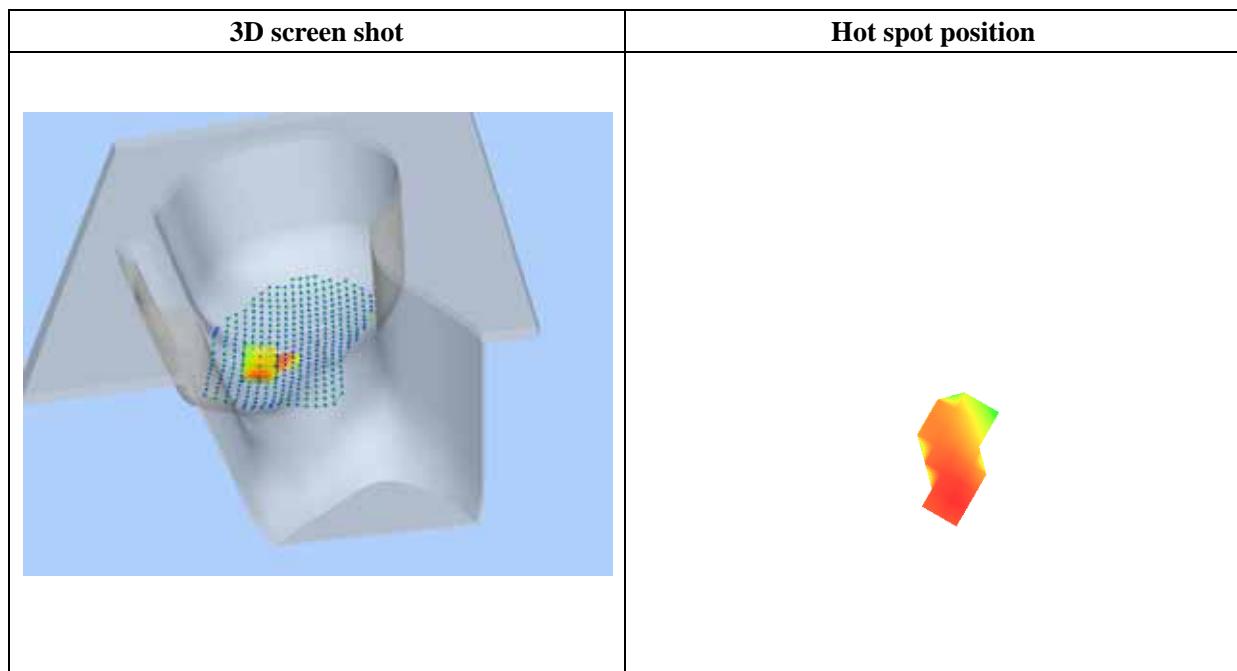
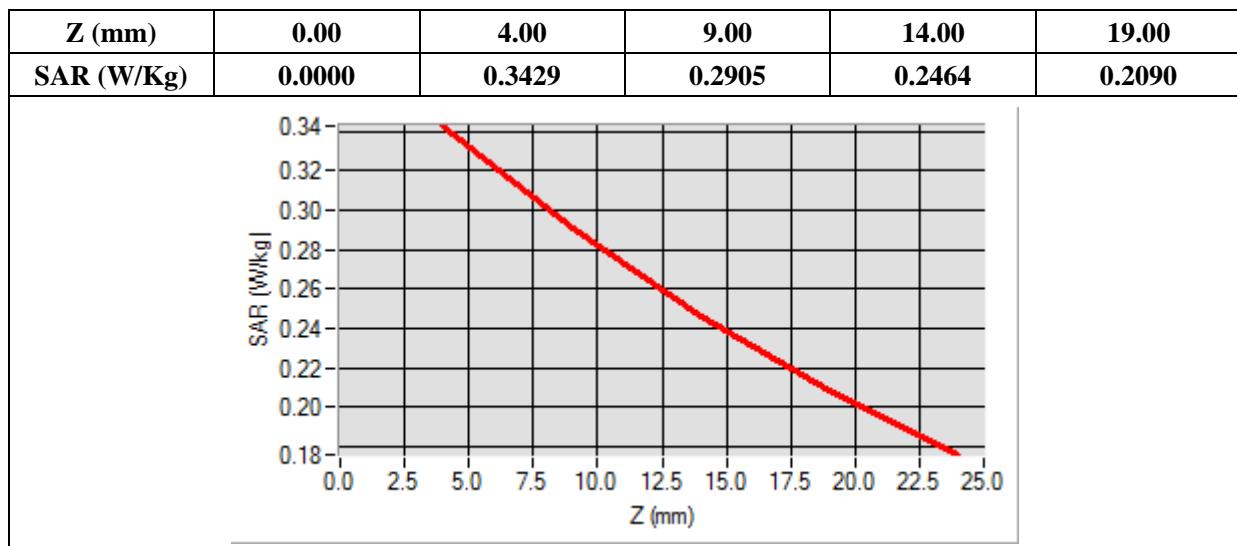
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.564544
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-55.00, Y=-33.00

SAR 10g (W/Kg)	0.262972
SAR 1g (W/Kg)	0.328996



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

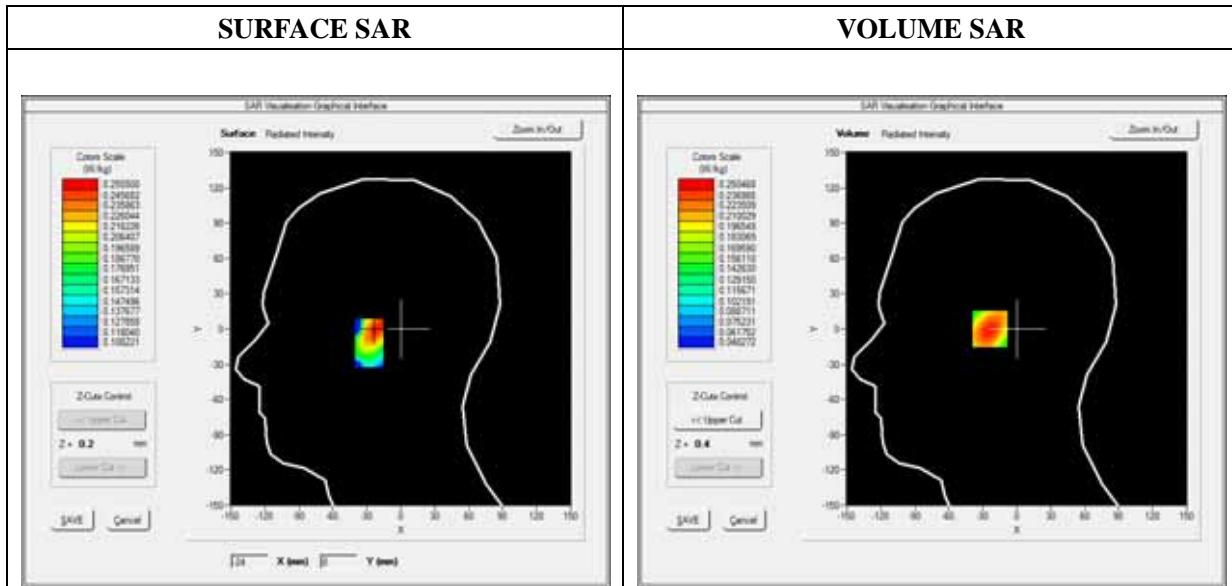
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

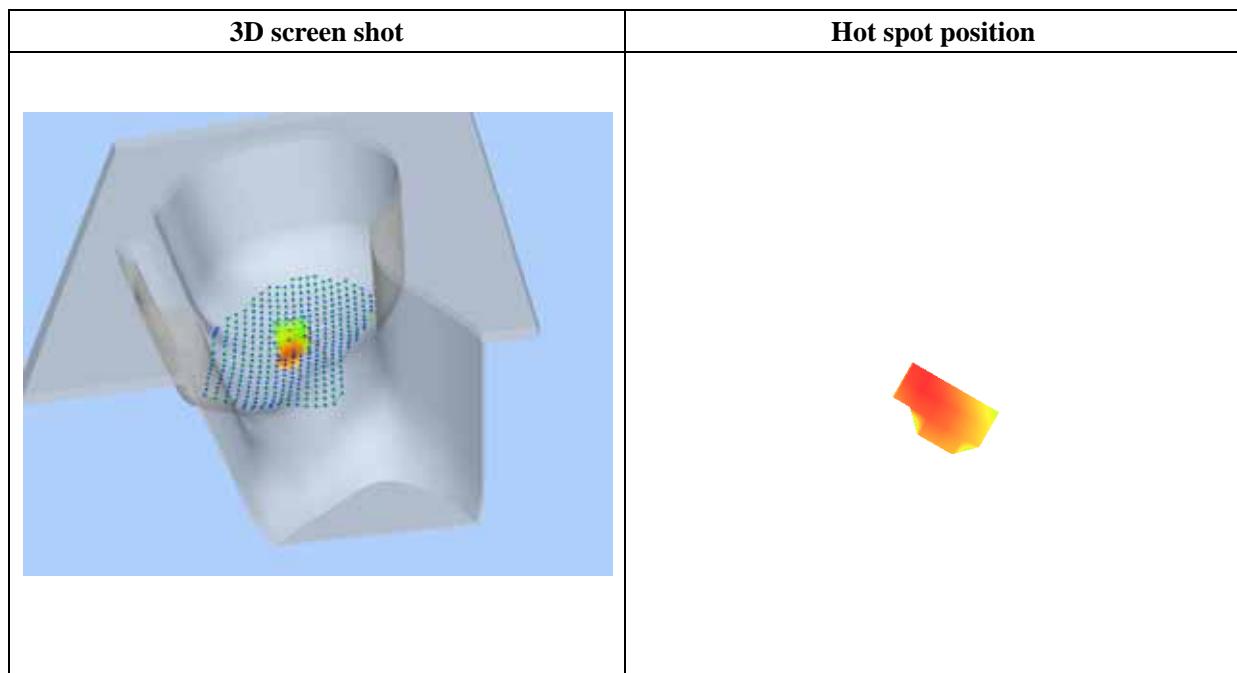
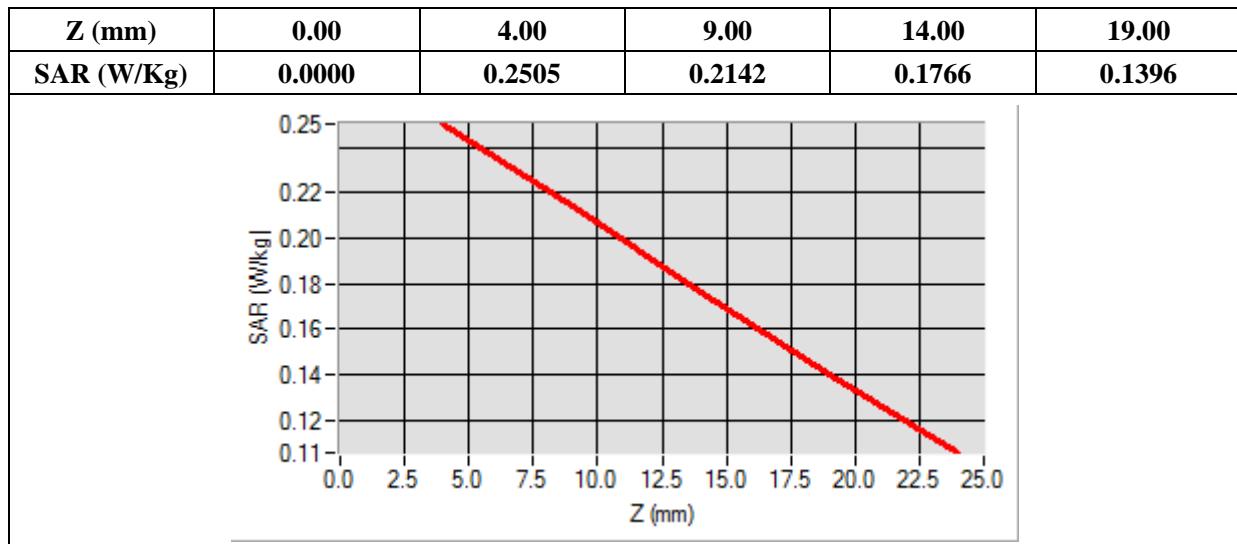
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	2.533224
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-22.00, Y=0.00

SAR 10g (W/Kg)	0.185325
SAR 1g (W/Kg)	0.239595



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 11 minutes 48 seconds

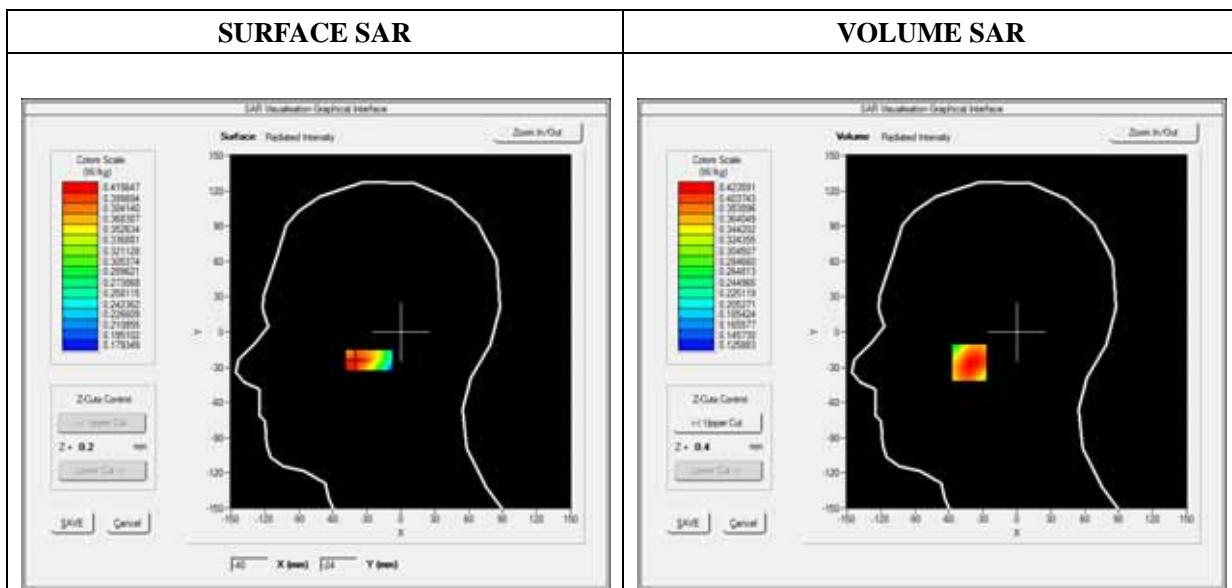
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

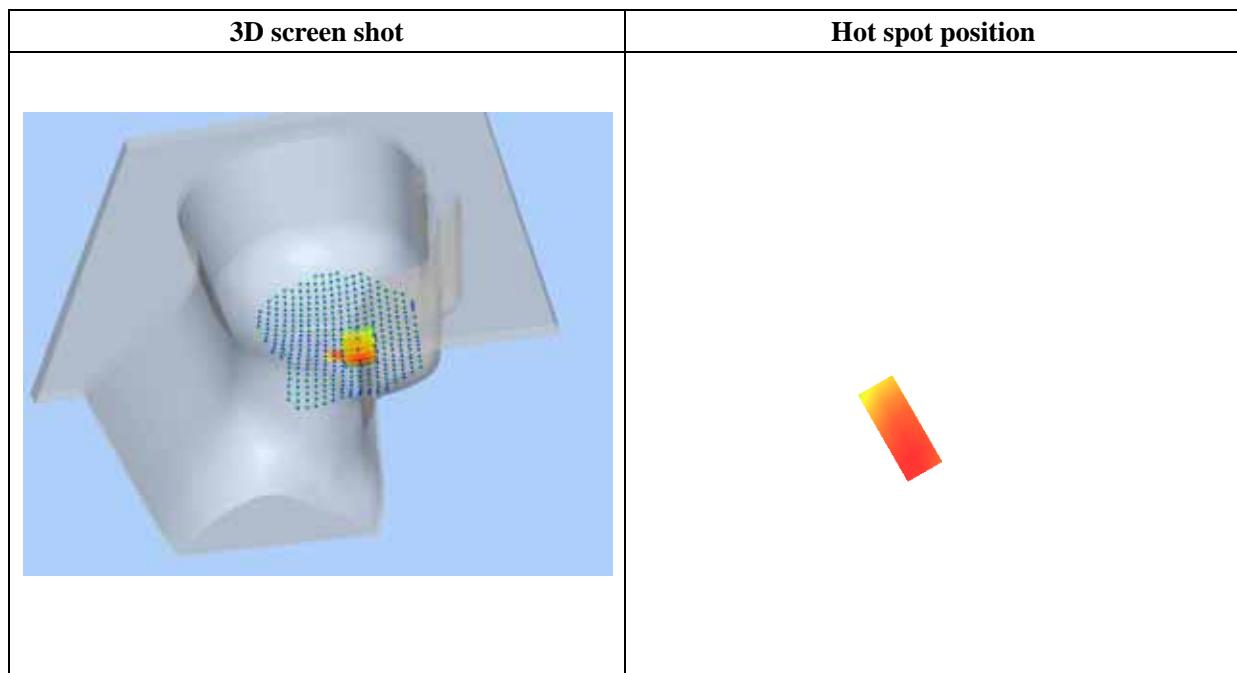
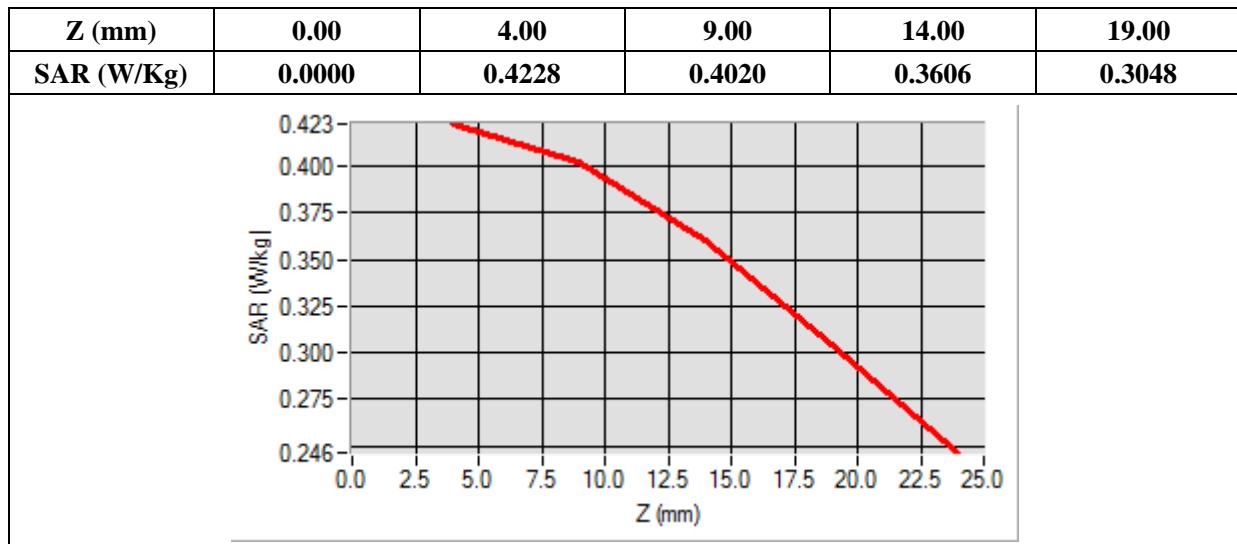
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.144536
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-42.00, Y=-26.00

SAR 10g (W/Kg)	0.350987
SAR 1g (W/Kg)	0.415365



MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

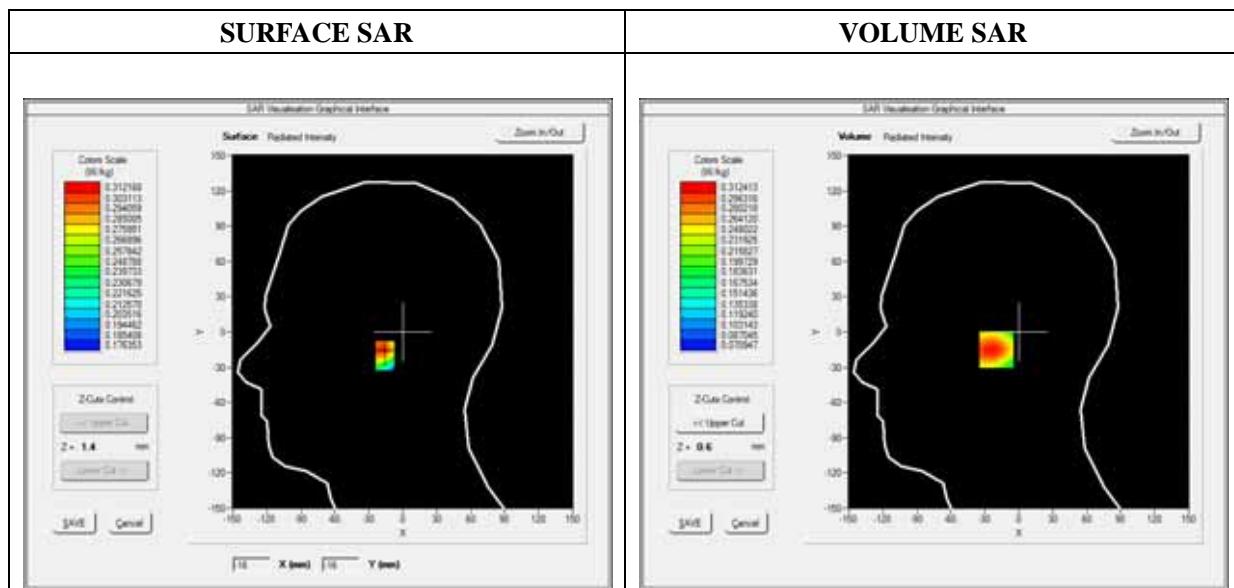
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

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

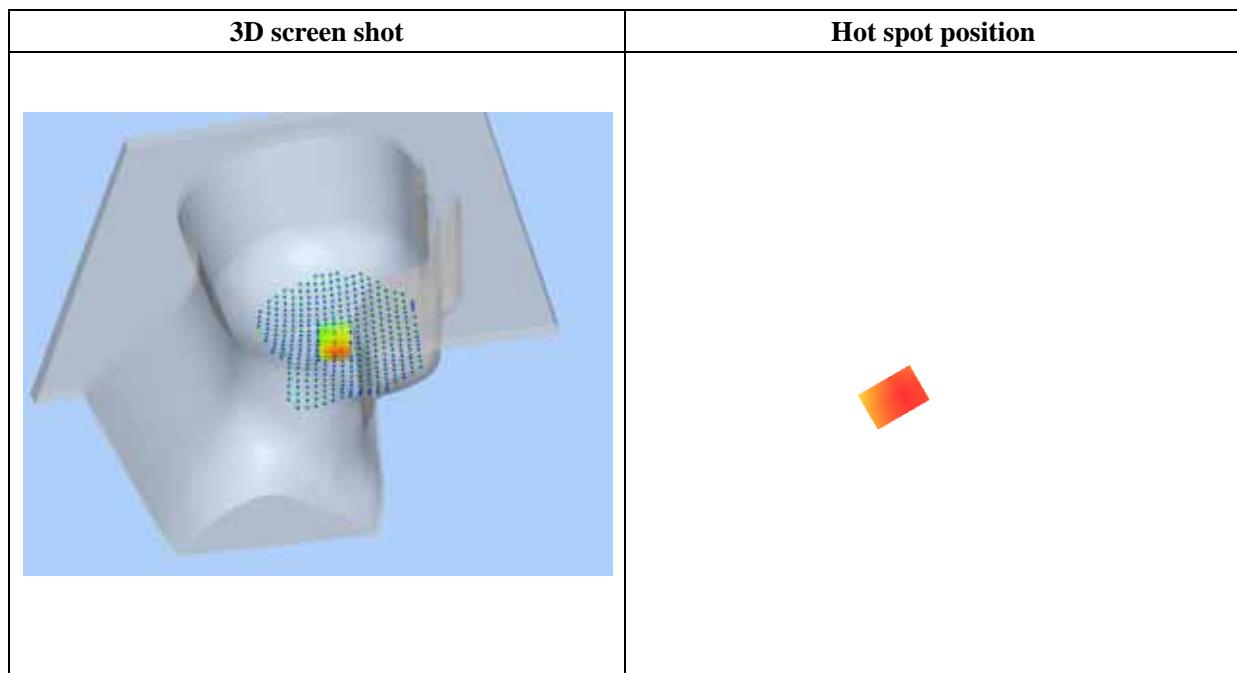
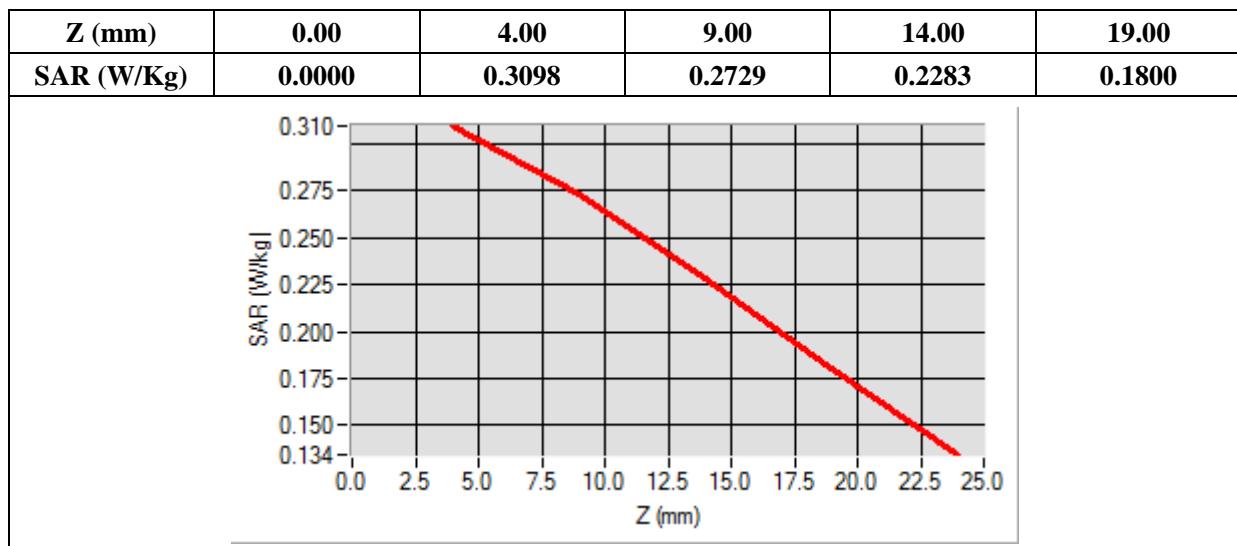
B. SAR Measurement Results

Frequency (MHz)	824.200000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.045578
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-17.00, Y=-15.00

SAR 10g (W/Kg)	0.238136
SAR 1g (W/Kg)	0.300237



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

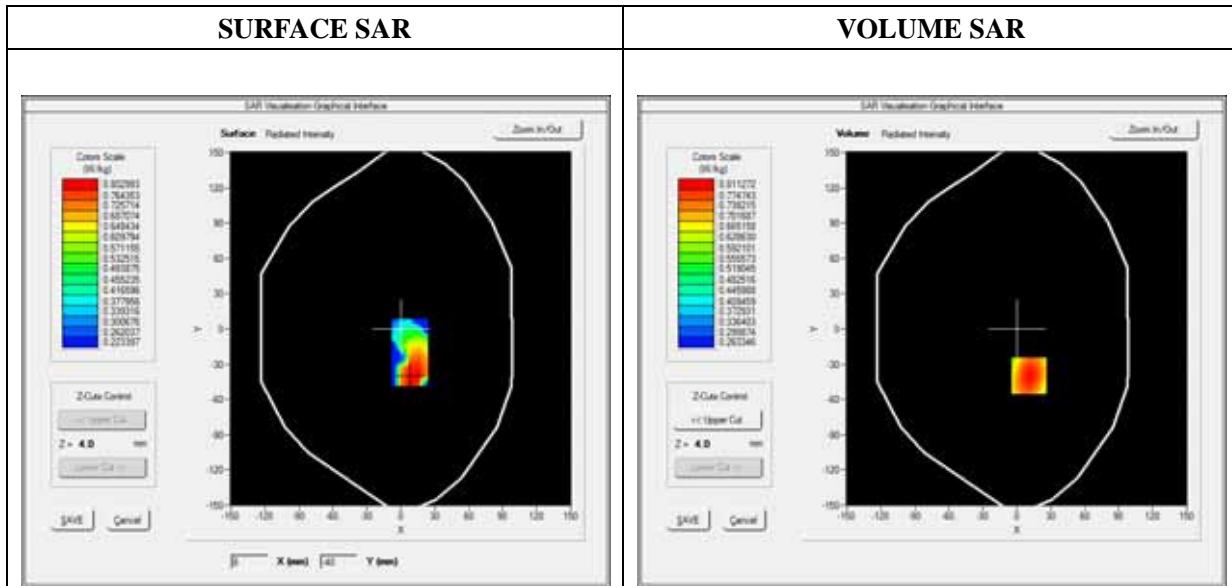
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

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

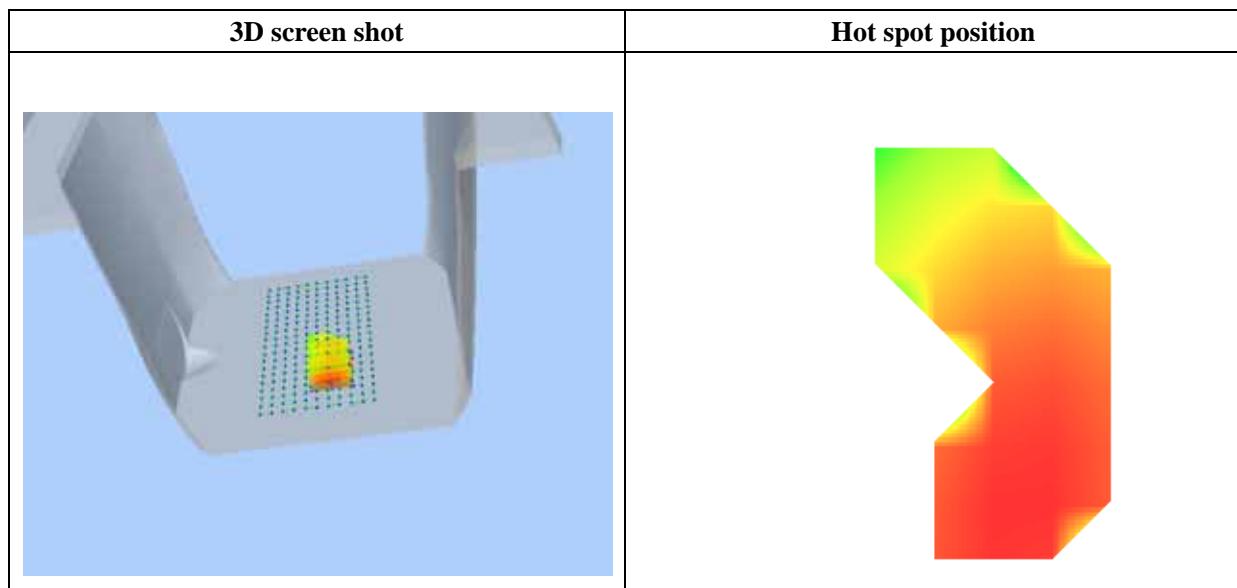
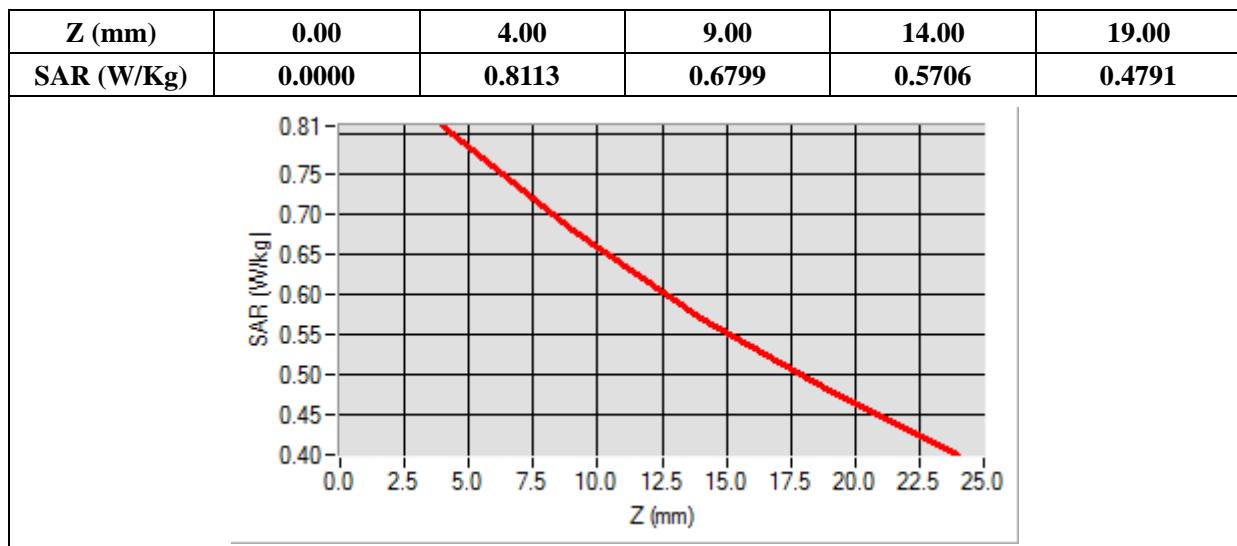
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=11.00, Y=-40.00

SAR 10g (W/Kg)	0.621457
SAR 1g (W/Kg)	0.783097



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

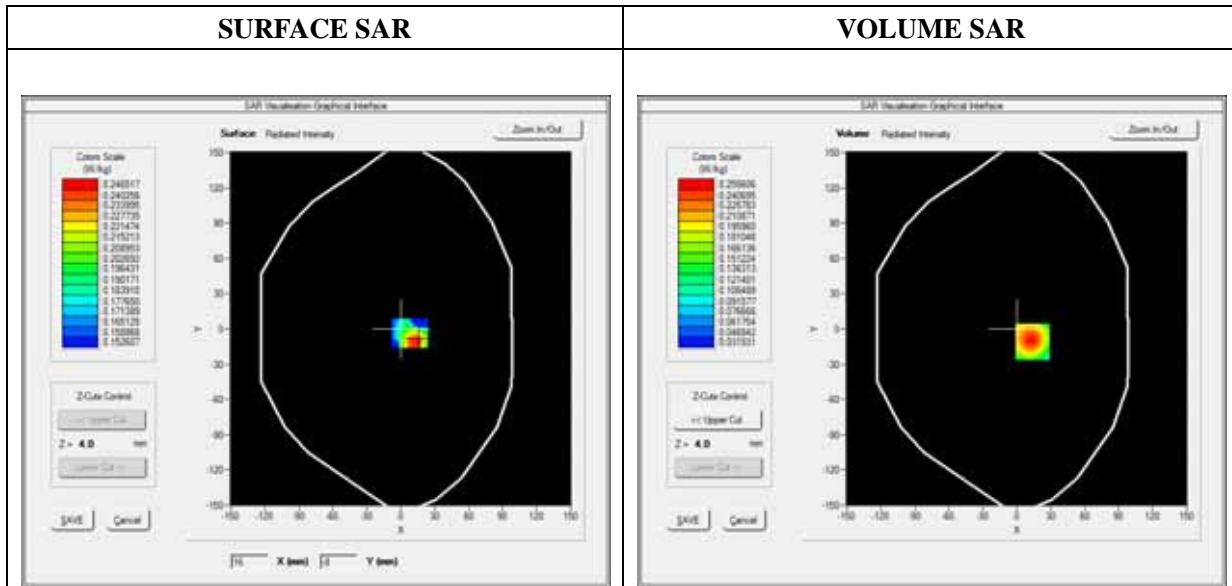
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

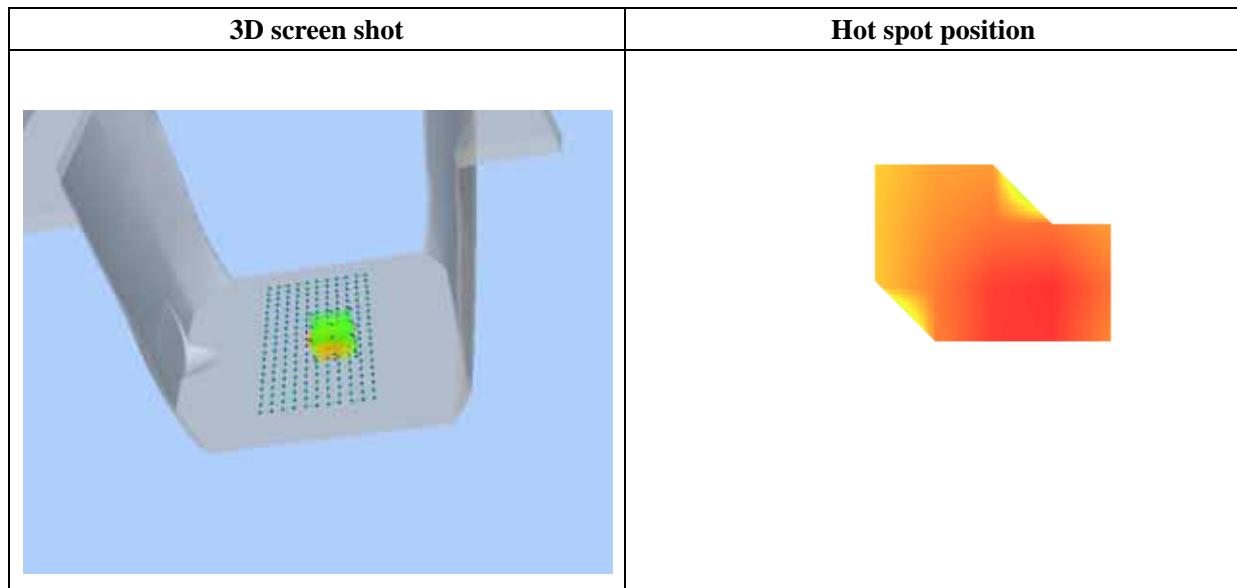
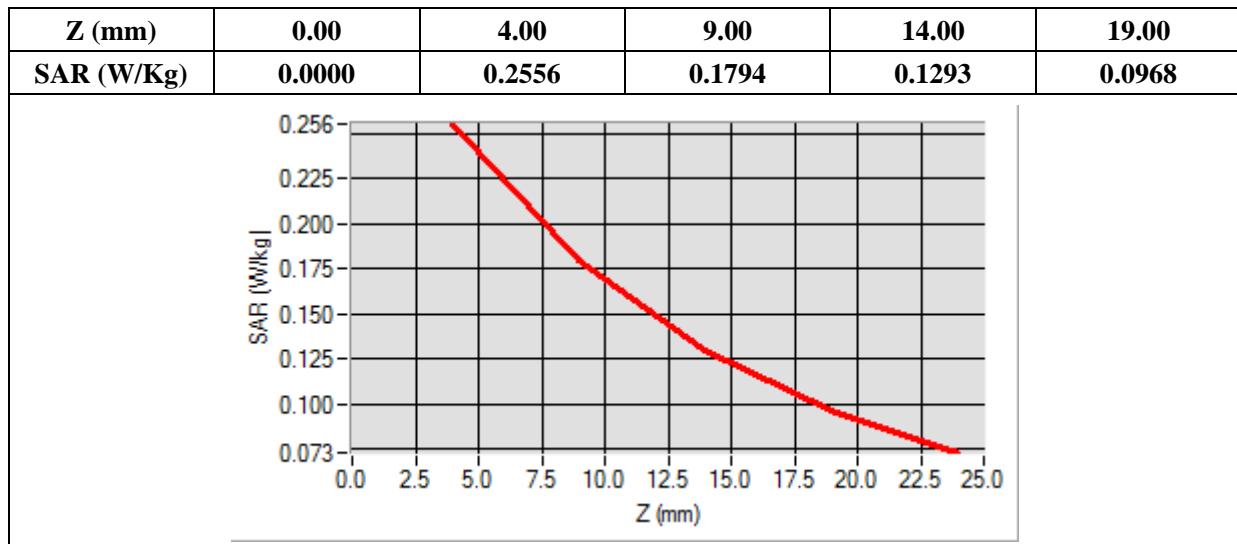
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	1.483222
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=14.00, Y=-11.00

SAR 10g (W/Kg)	0.160770
SAR 1g (W/Kg)	0.240764



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

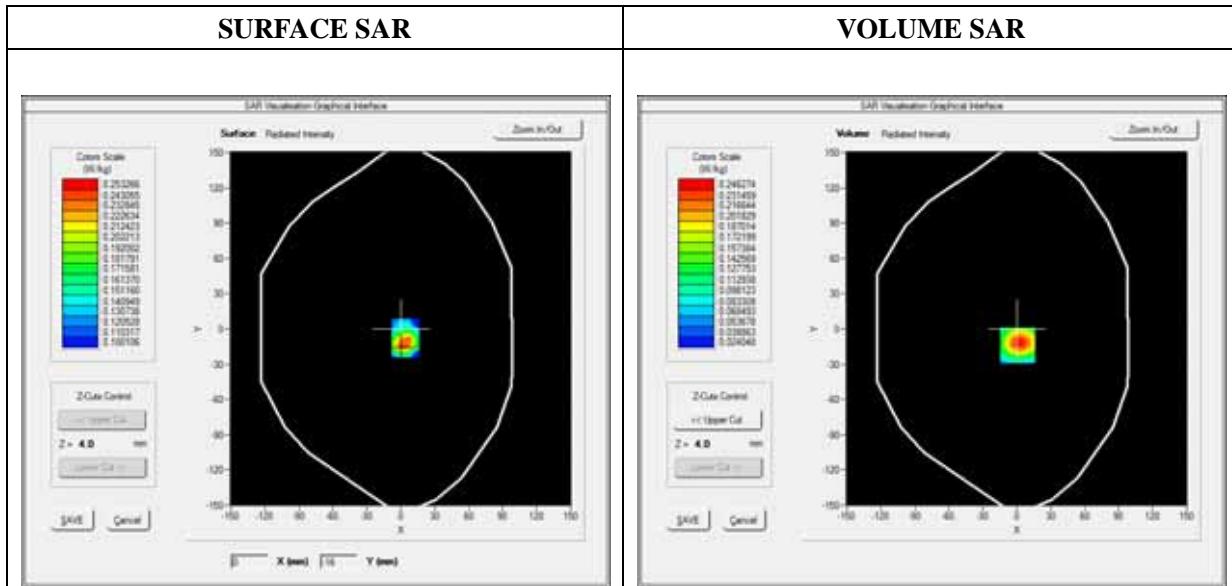
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Back
Band	GPRS850_2TX
Channels	Middle
Signal	Duty Cycle 1:2

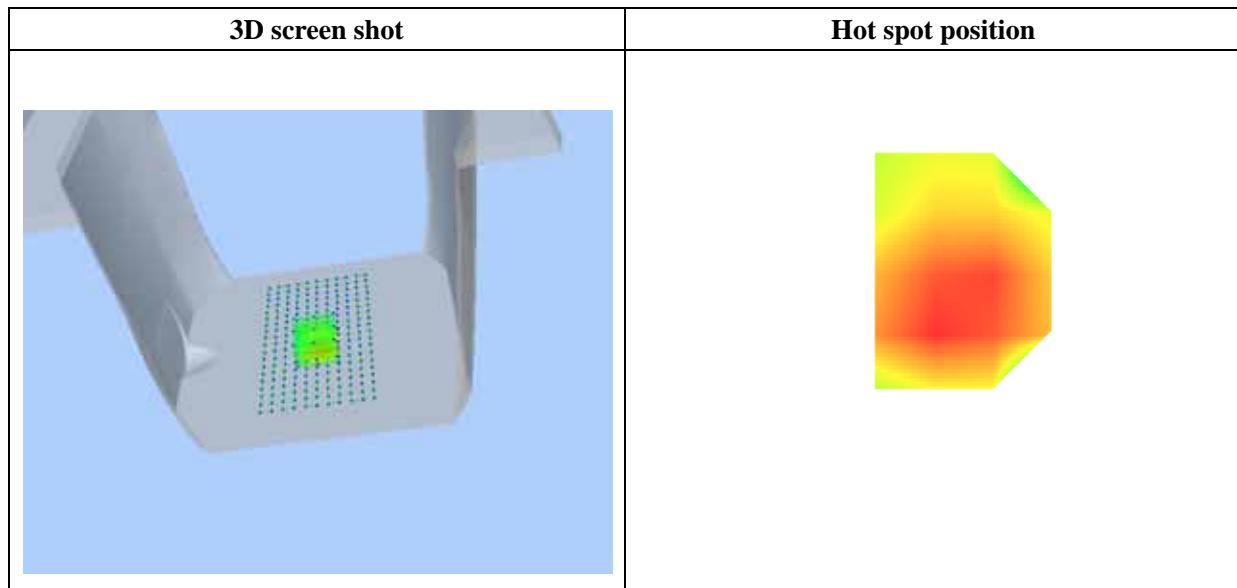
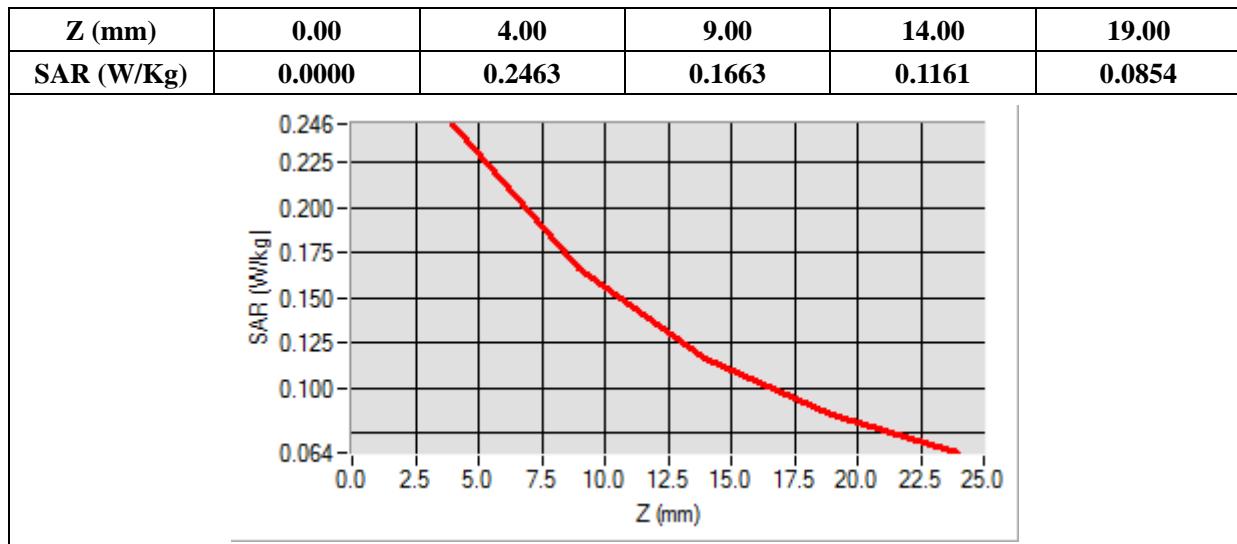
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.901472
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=-14.00

SAR 10g (W/Kg)	0.142822
SAR 1g (W/Kg)	0.231495



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

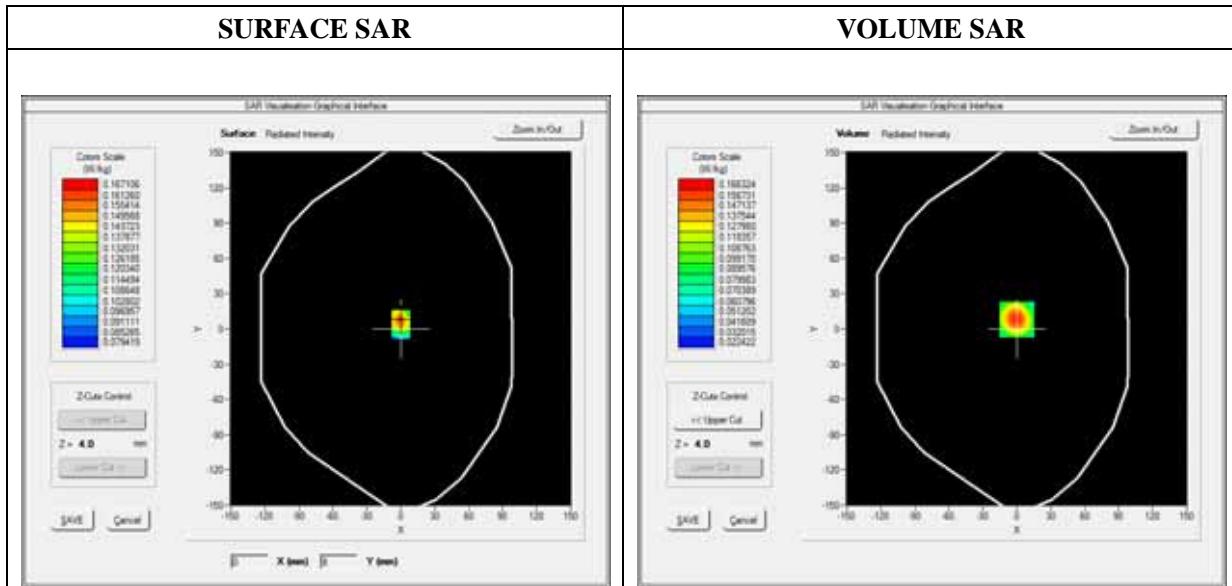
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Front
Band	GPRS850_2TX
Channels	Middle
Signal	Duty Cycle 1:2

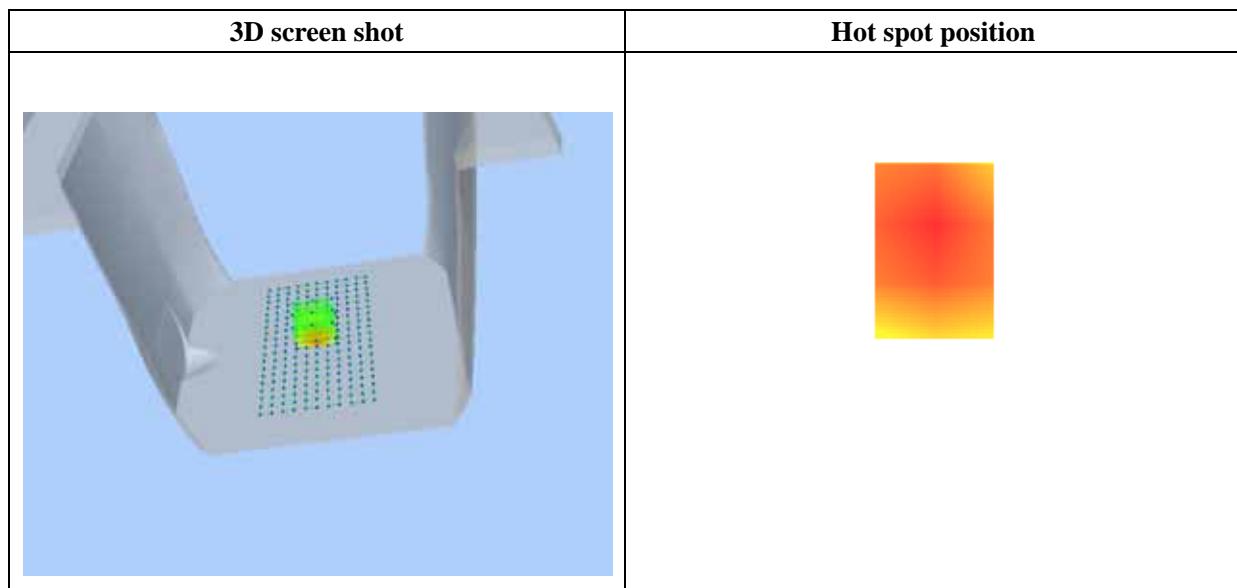
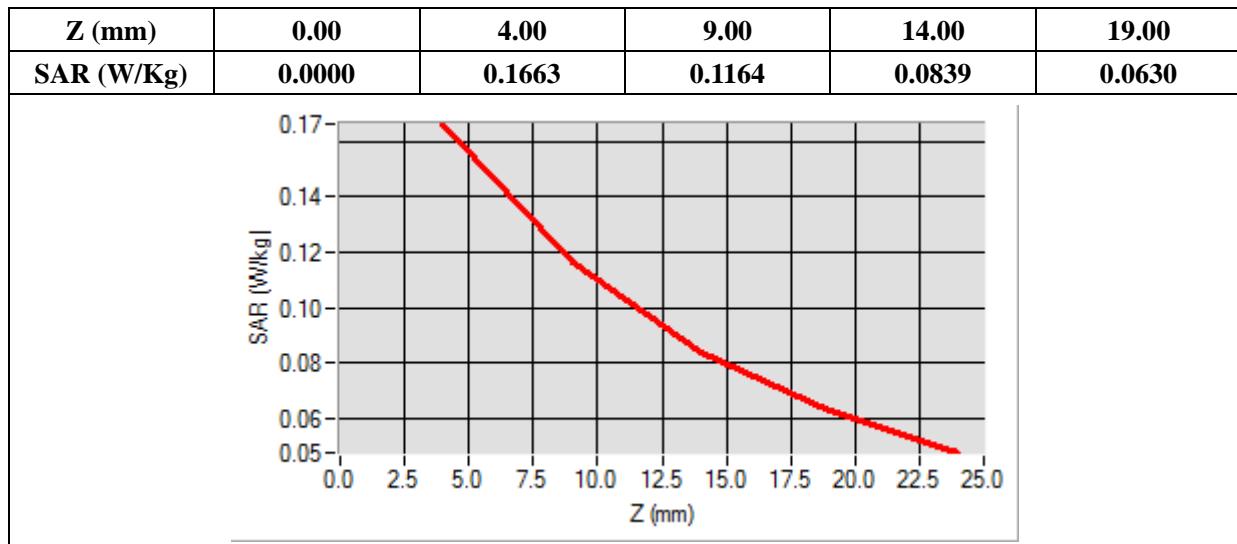
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.757758
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=8.00

SAR 10g (W/Kg)	0.100805
SAR 1g (W/Kg)	0.154297



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

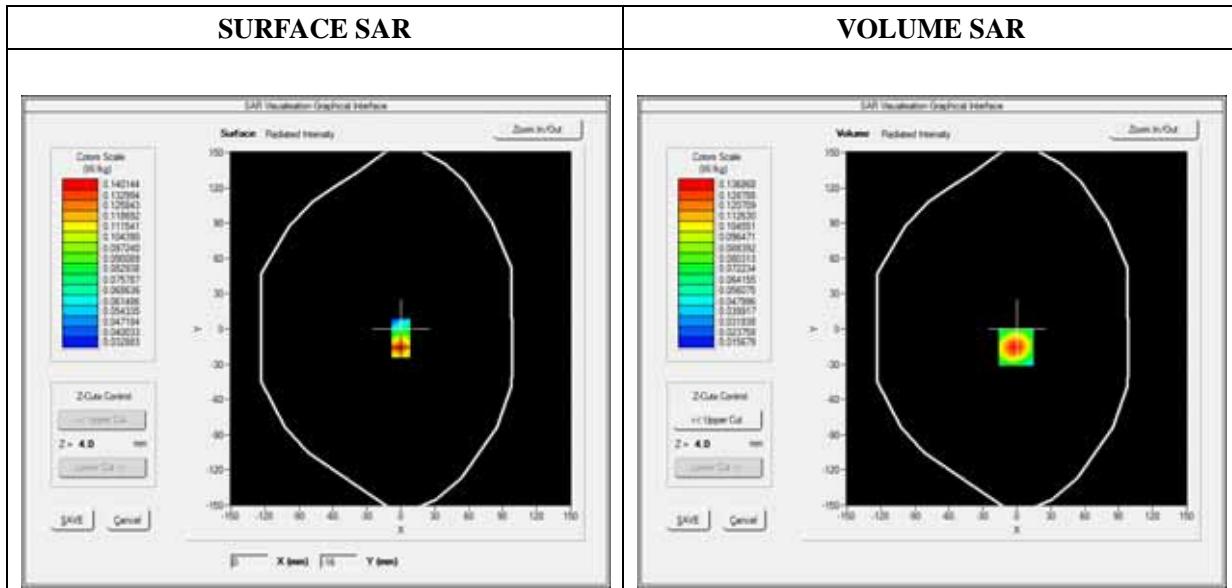
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Bottom
Band	GPRS850_2TX
Channels	Middle
Signal	Duty Cycle 1:2

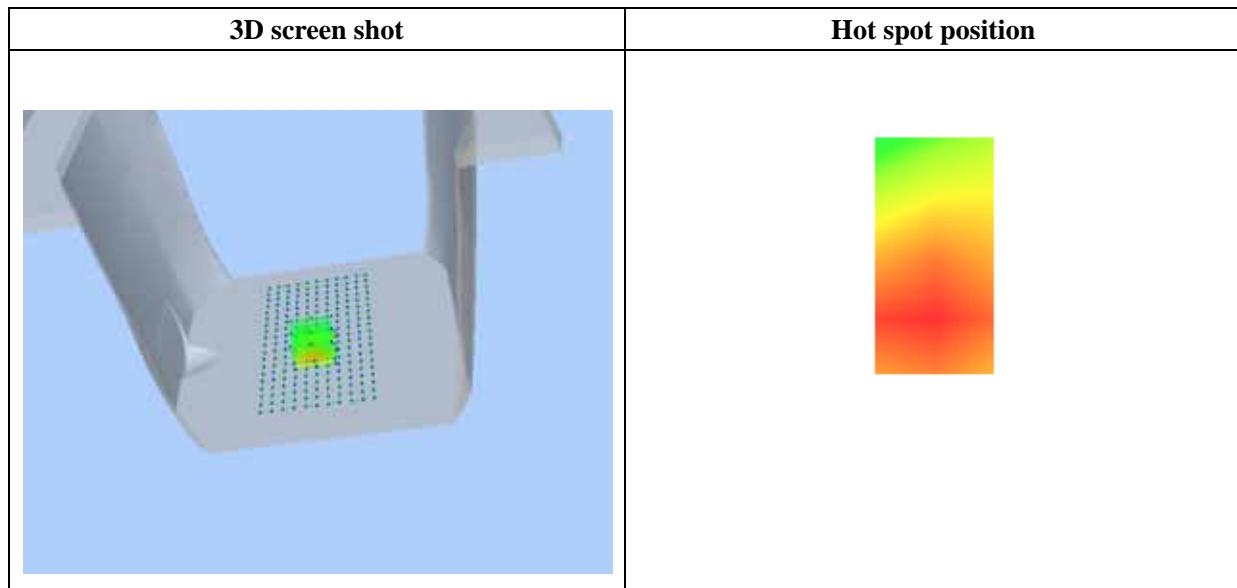
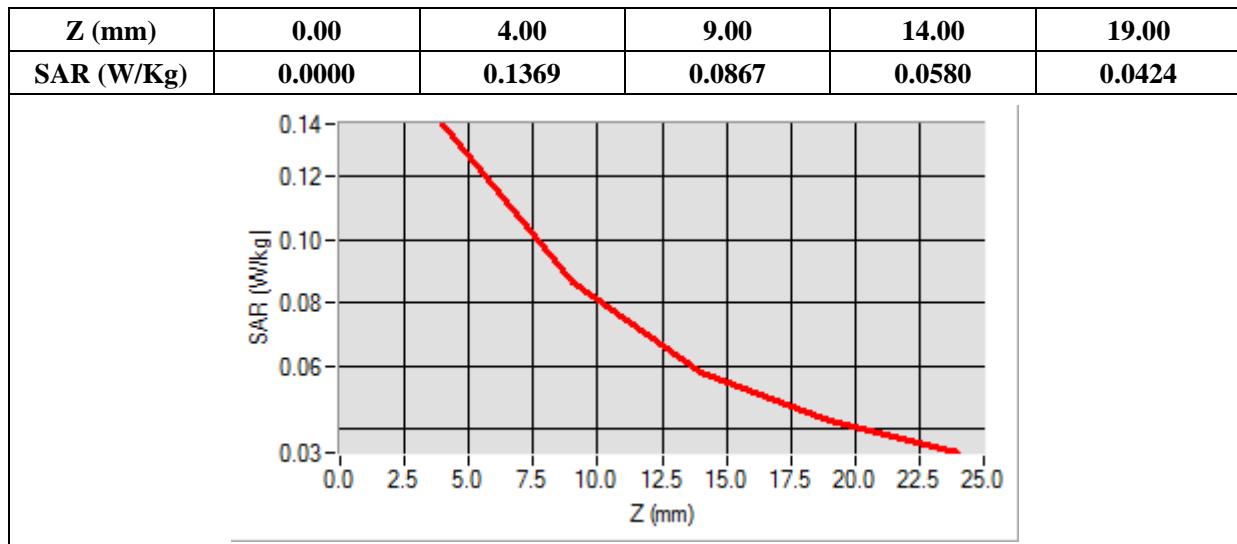
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	2.103734
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-1.00, Y=-16.00

SAR 10g (W/Kg)	0.077436
SAR 1g (W/Kg)	0.126675



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

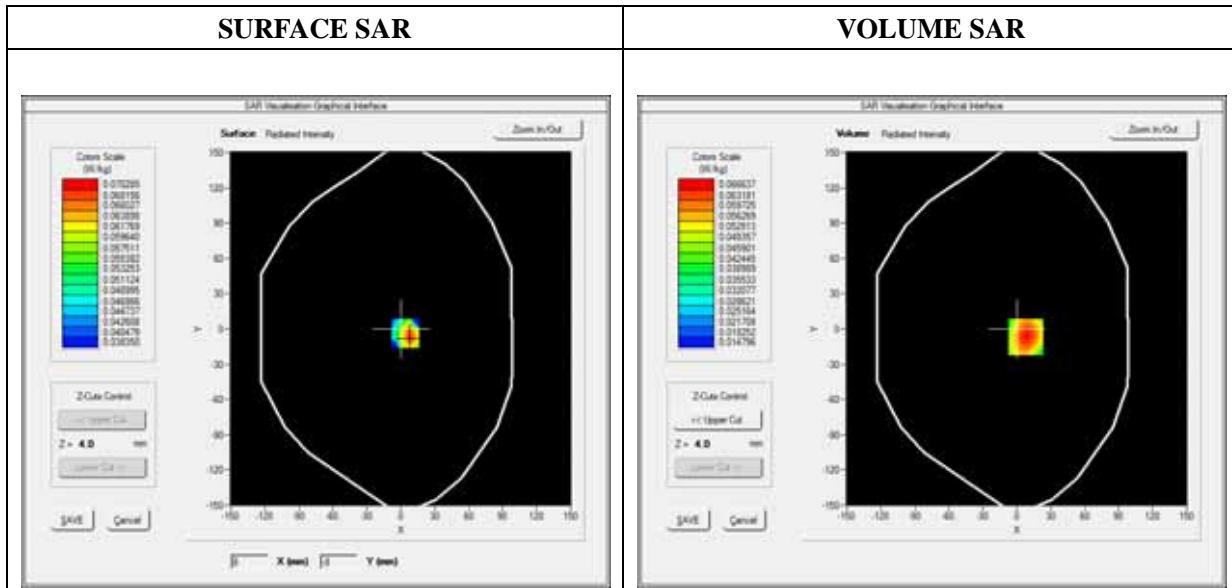
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Right side
Band	GPRS850_2TX
Channels	Middle
Signal	Duty Cycle 1:2

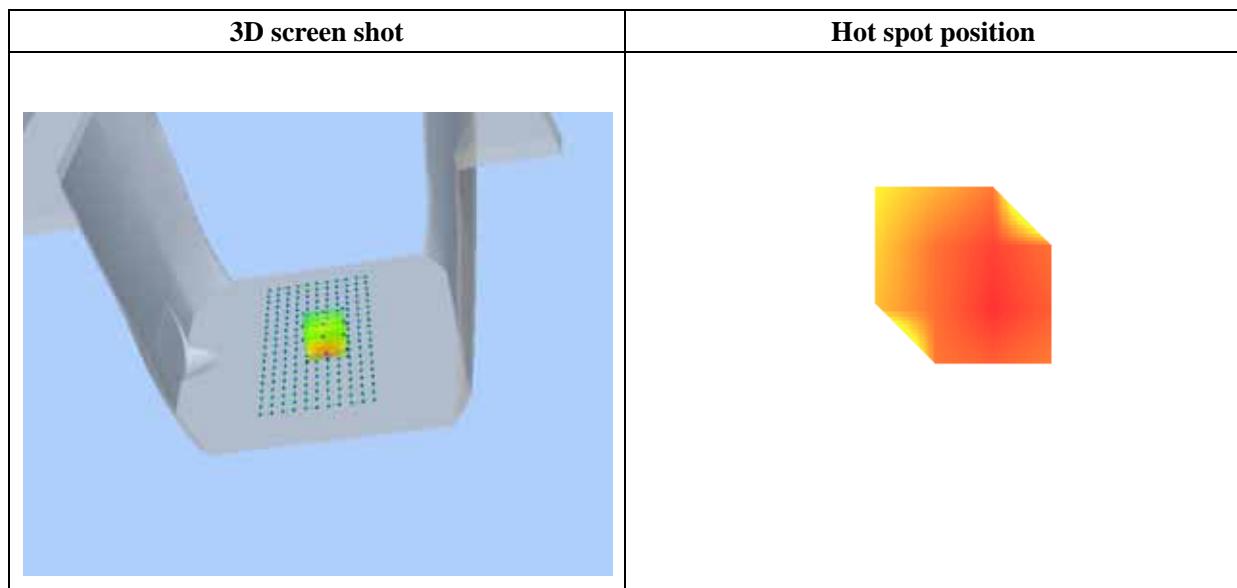
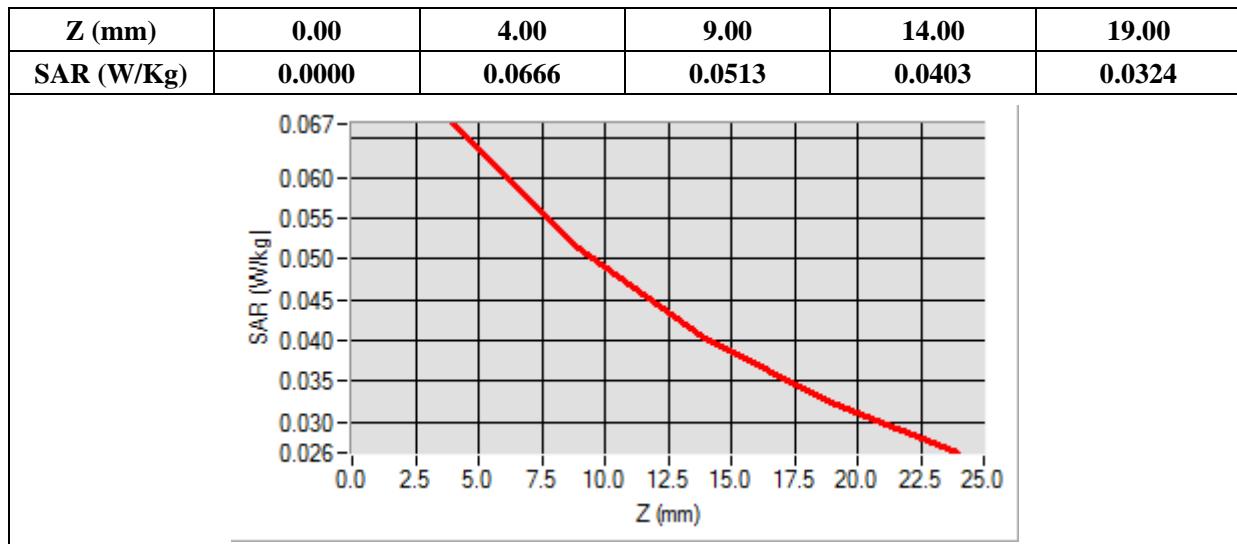
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	1.446333
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=8.00, Y=-7.00

SAR 10g (W/Kg)	0.045849
SAR 1g (W/Kg)	0.063424



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

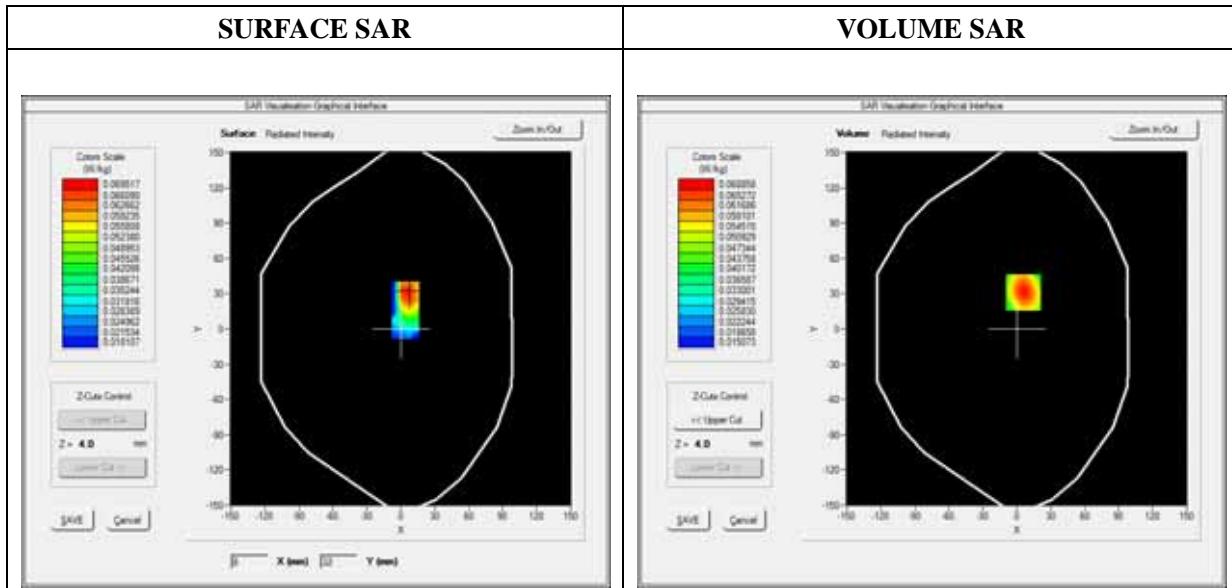
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Left side
Band	GPRS850_2TX
Channels	Middle
Signal	Duty Cycle 1:2

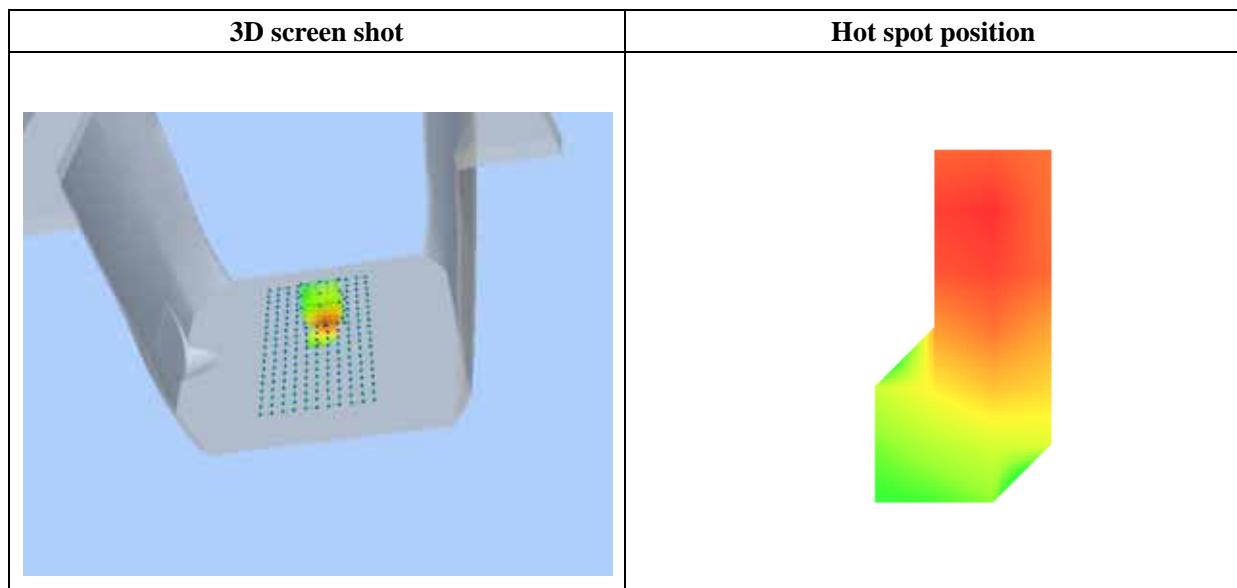
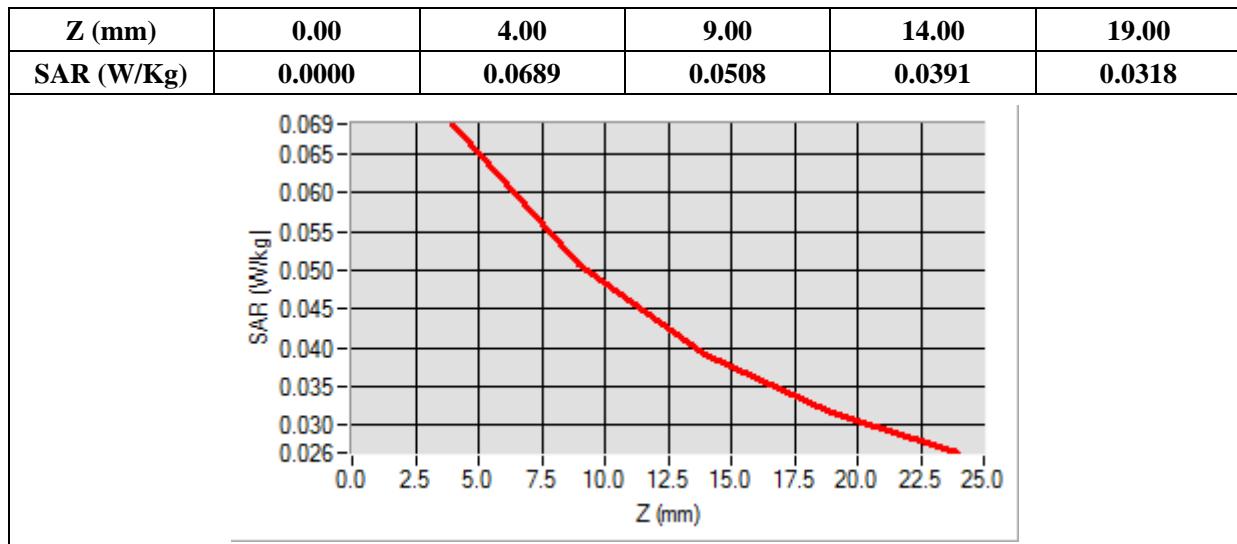
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	1.274632
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=6.00, Y=31.00

SAR 10g (W/Kg)	0.046527
SAR 1g (W/Kg)	0.065245



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

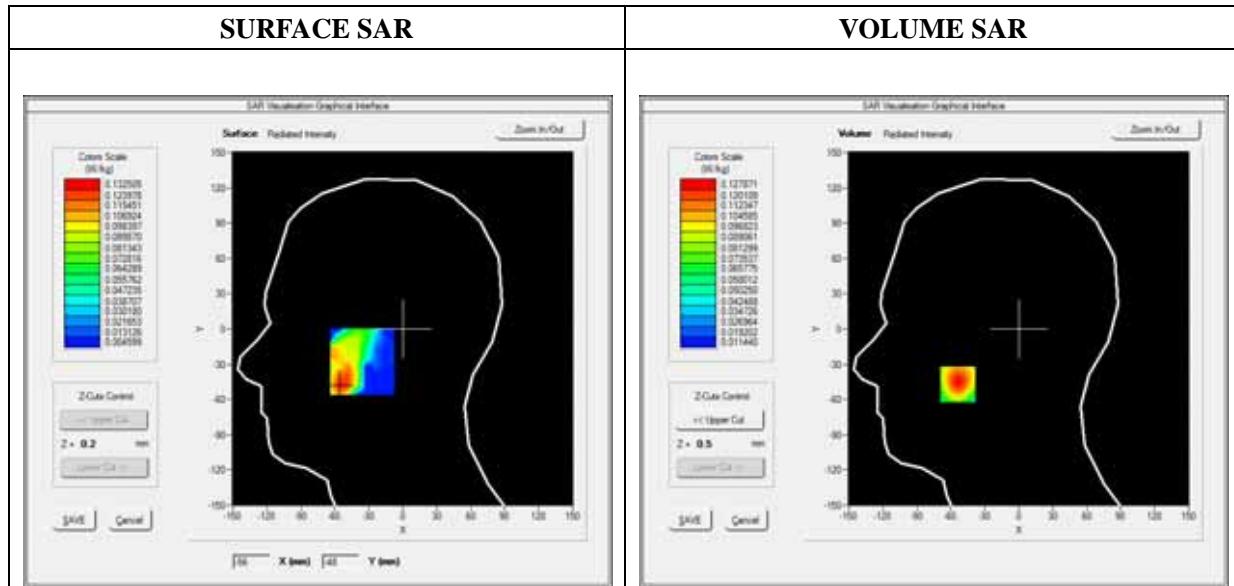
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

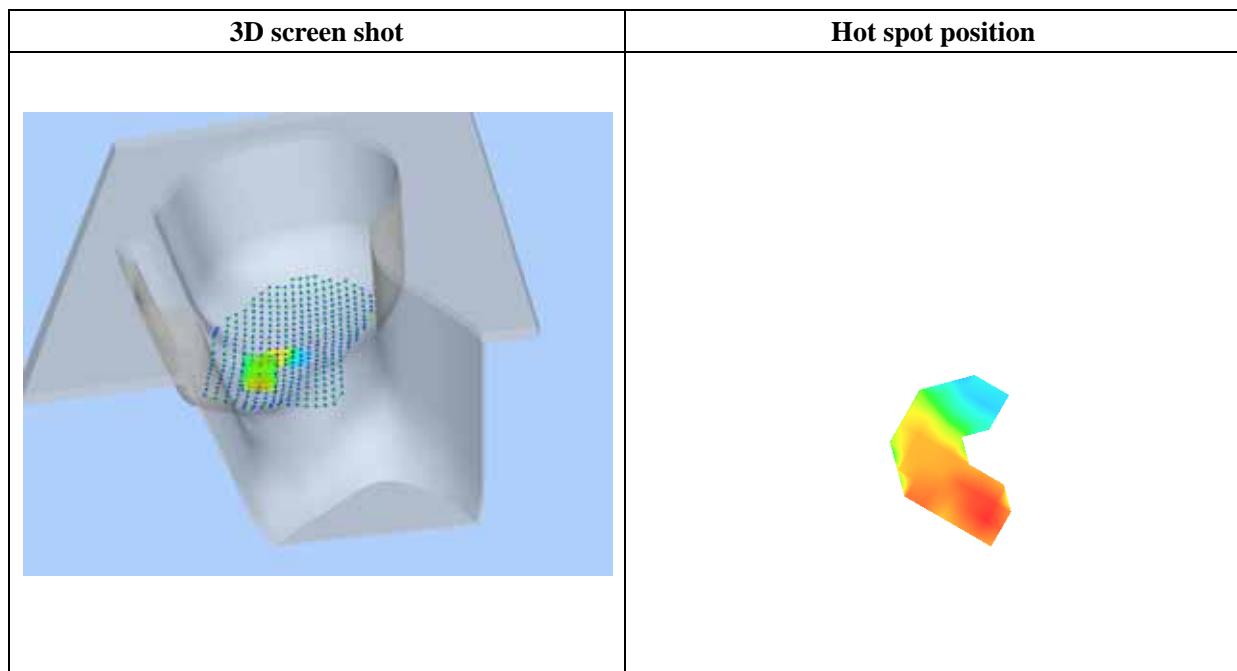
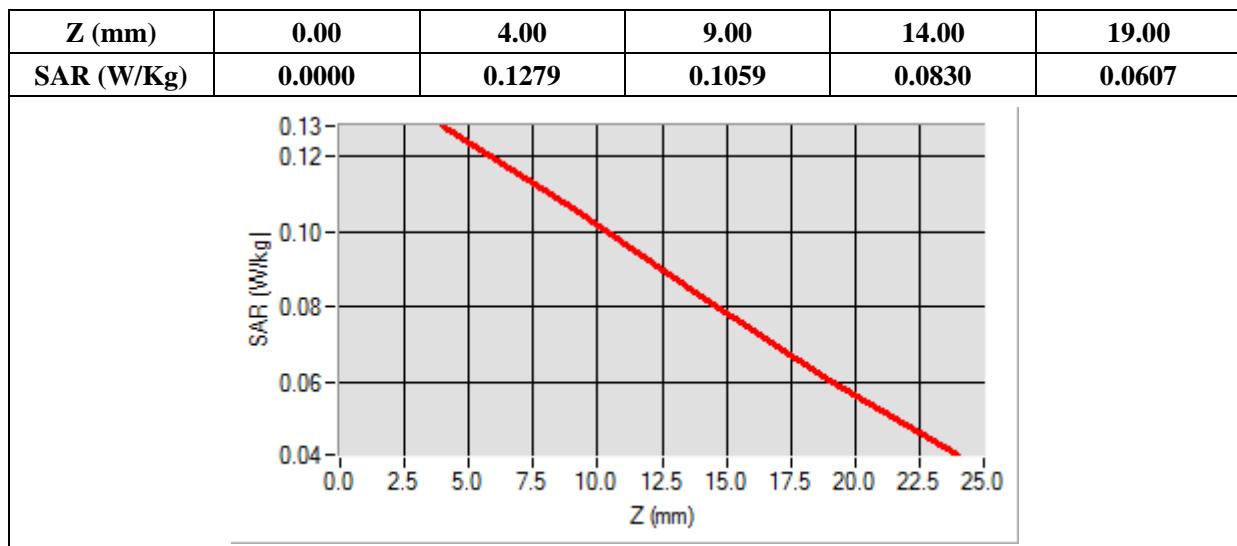
B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.314523
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-54.00, Y=-47.00

SAR 10g (W/Kg)	0.084649
SAR 1g (W/Kg)	0.121456



MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

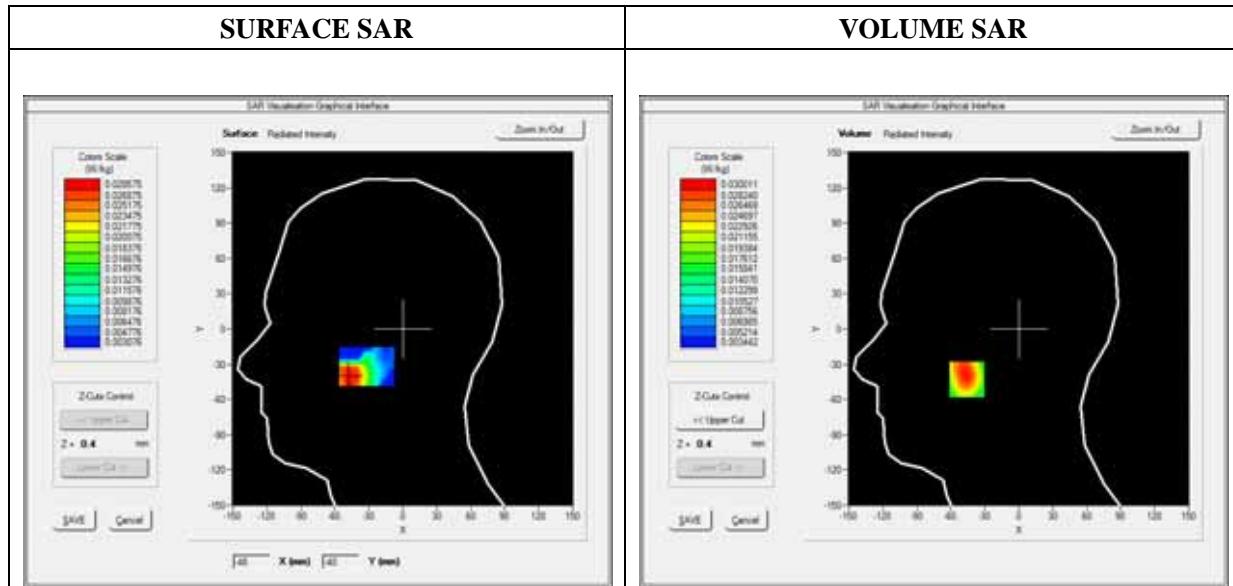
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

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

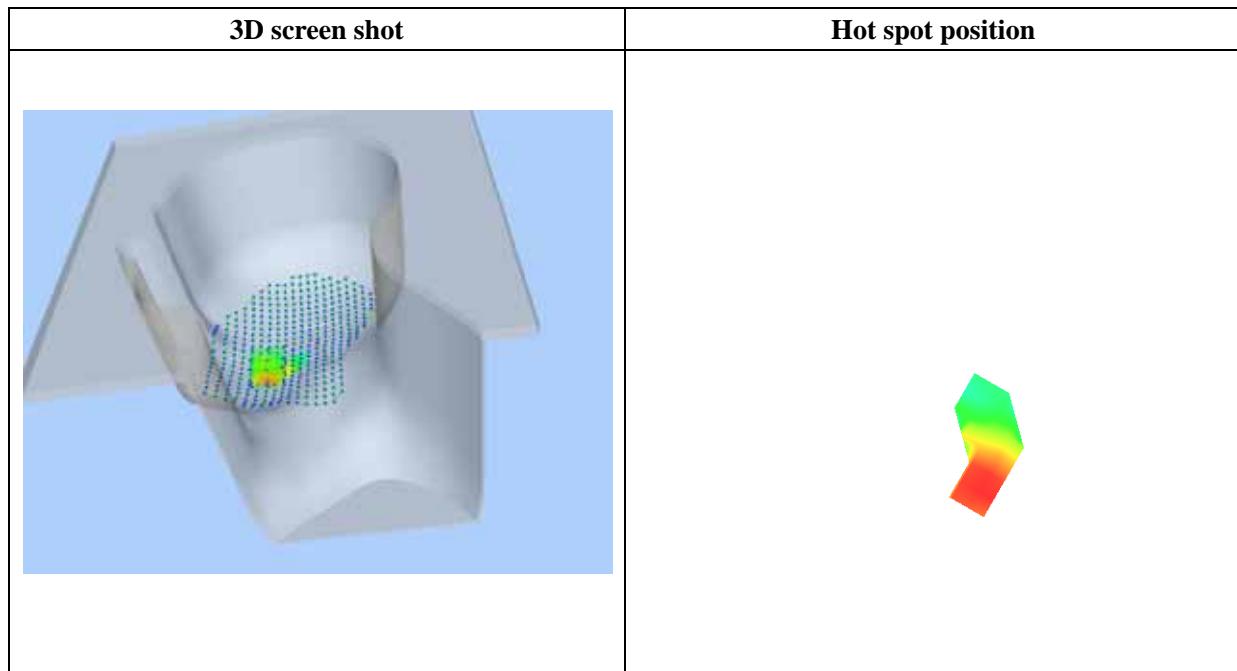
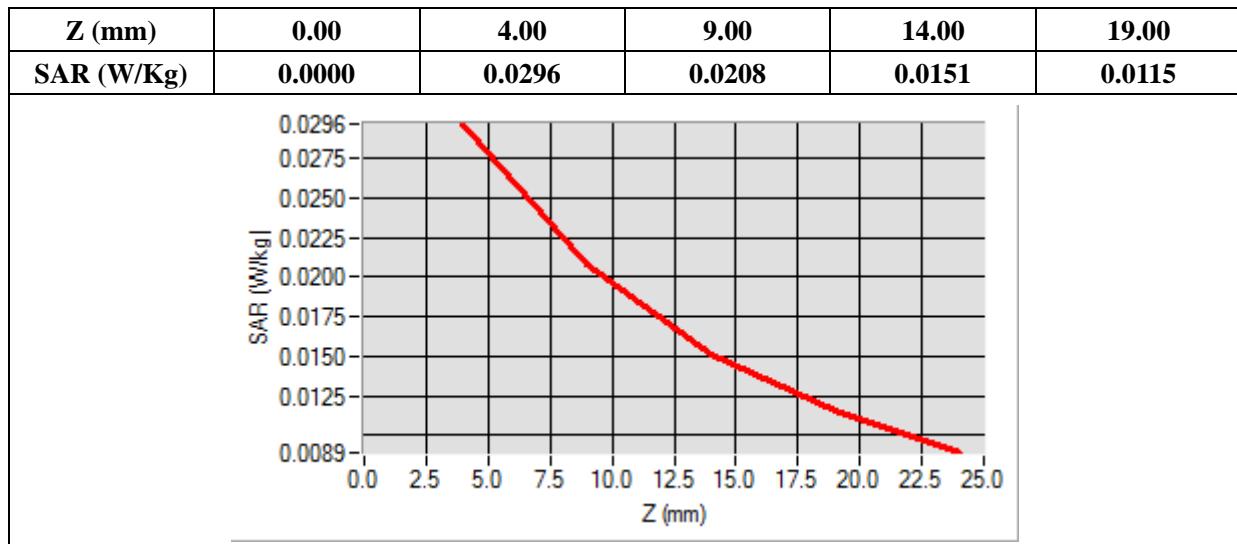
B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.104384
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-46.00, Y=-43.00

SAR 10g (W/Kg)	0.019172
SAR 1g (W/Kg)	0.028415



MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 11 minutes 48 seconds

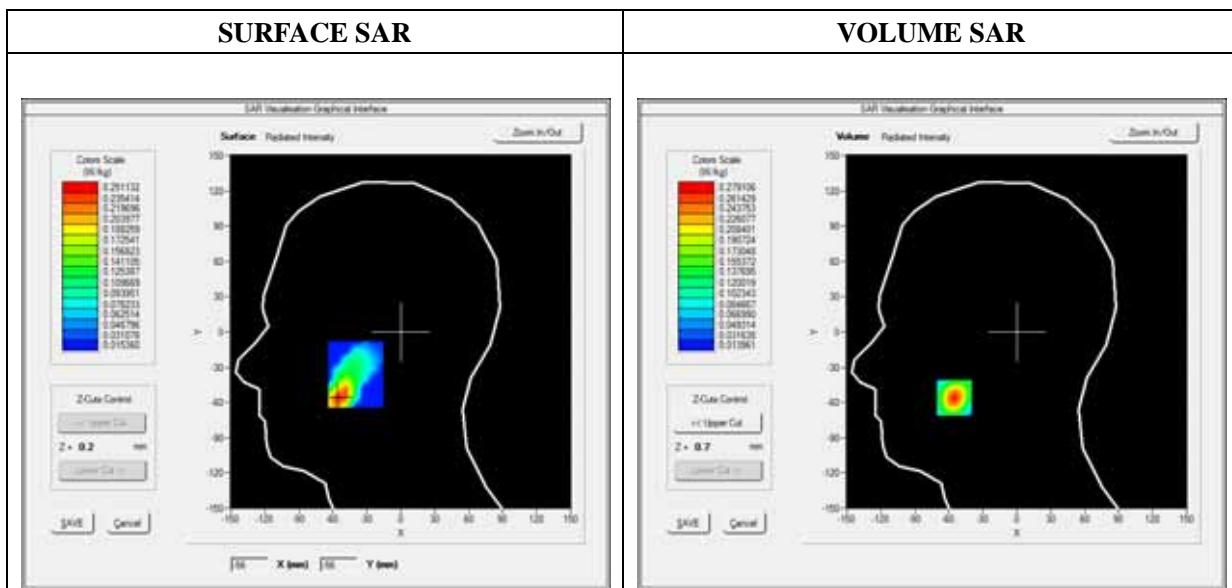
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

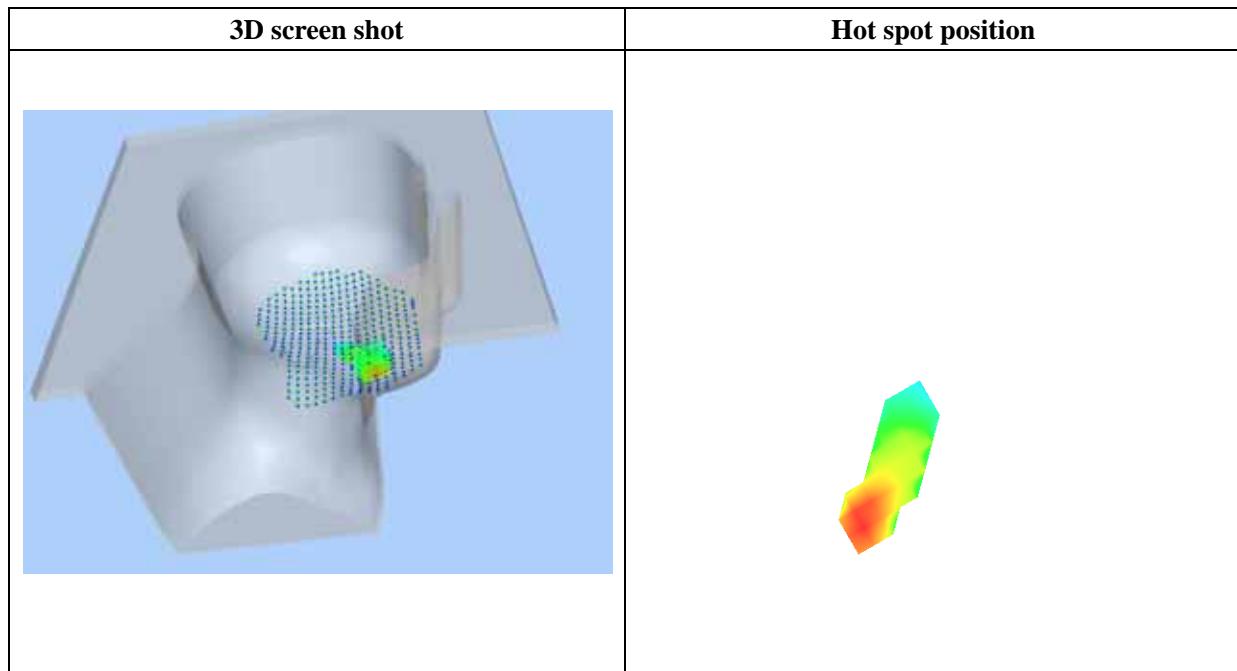
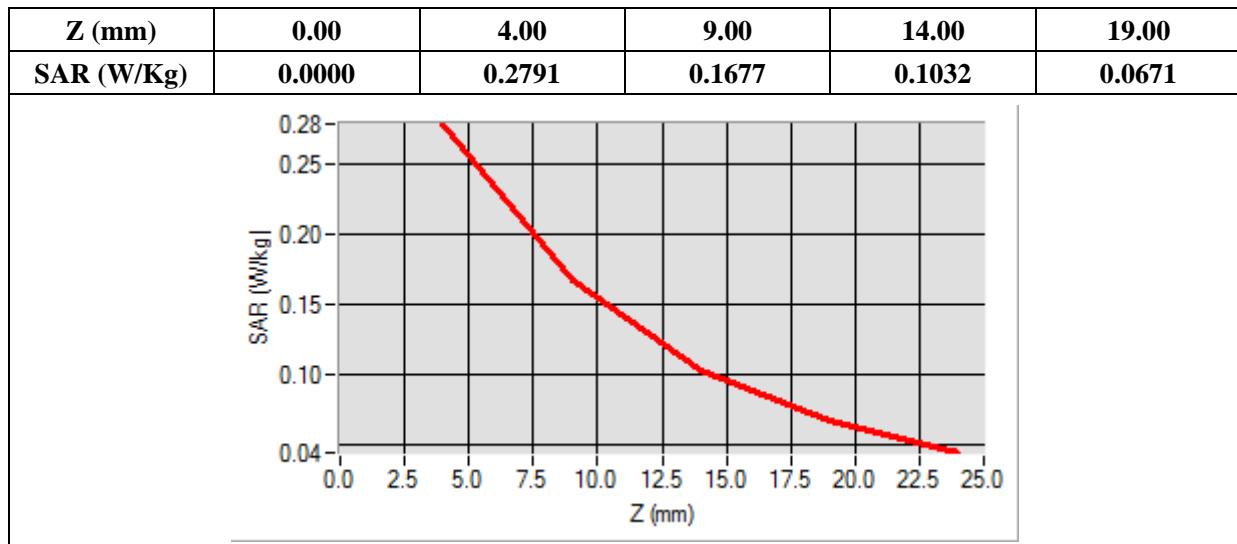
B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.442440
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-55.00, Y=-56.00

SAR 10g (W/Kg)	0.136503
SAR 1g (W/Kg)	0.250821



MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

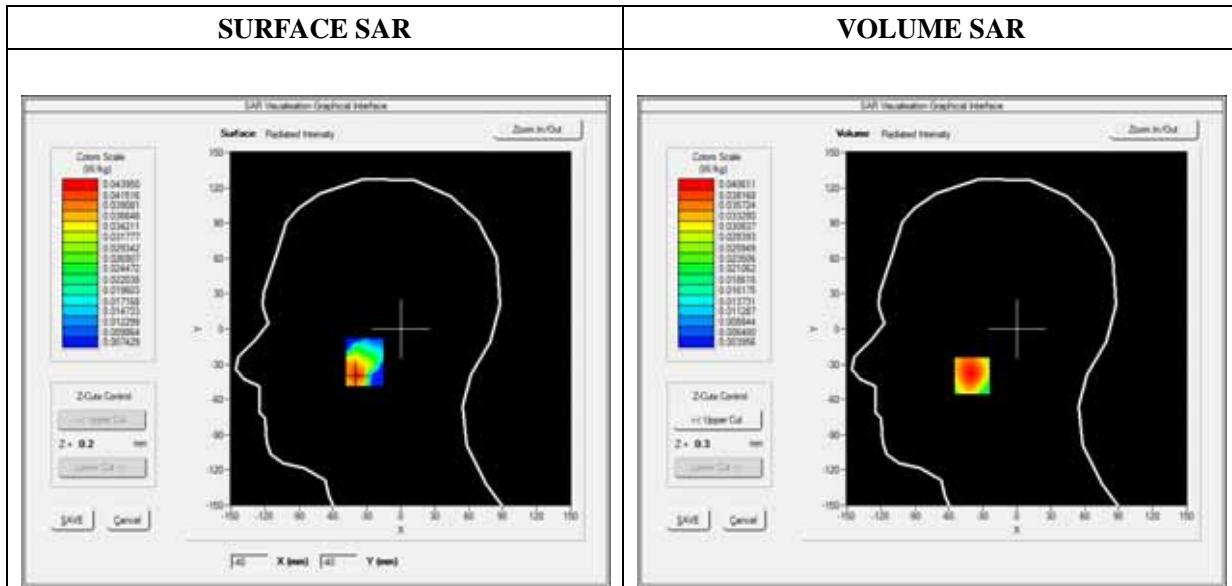
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

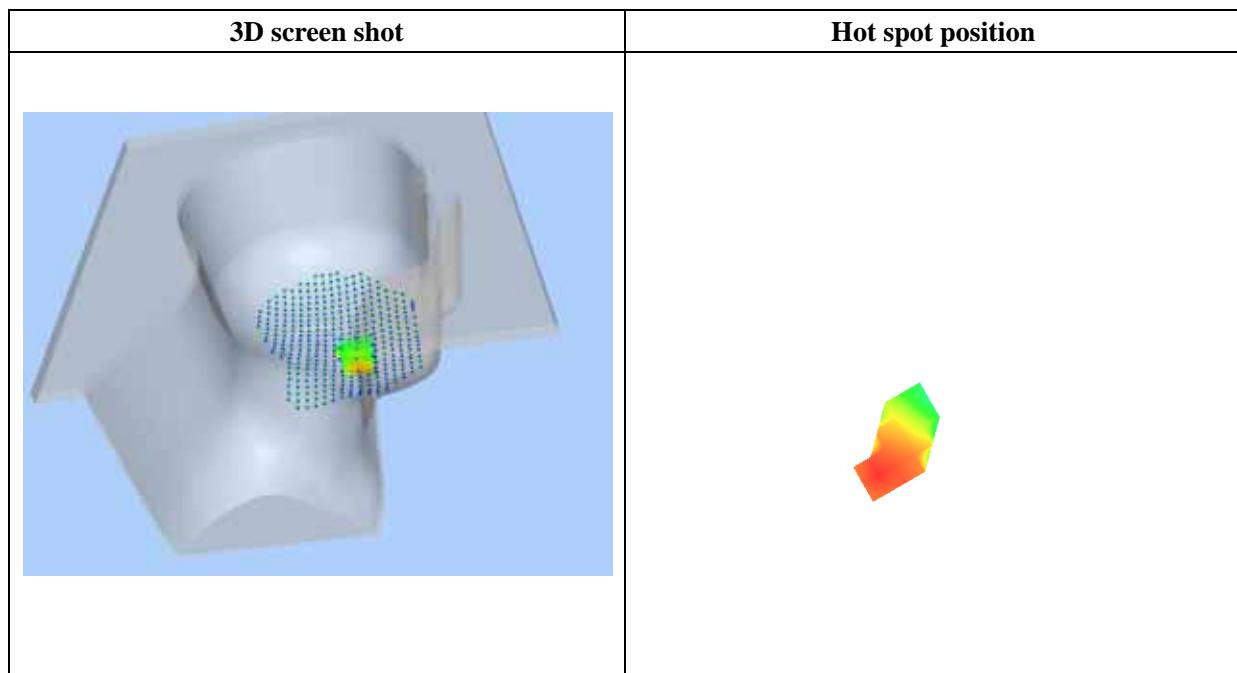
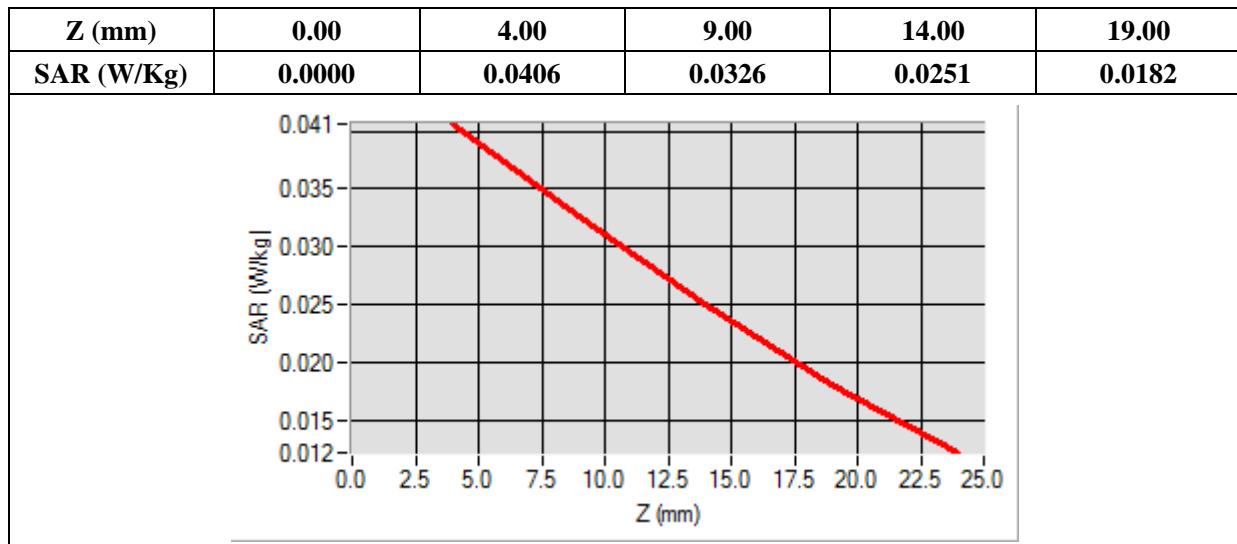
B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.543453
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-39.00, Y=-40.00

SAR 10g (W/Kg)	0.027356
SAR 1g (W/Kg)	0.038882



MEASUREMENT 16

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

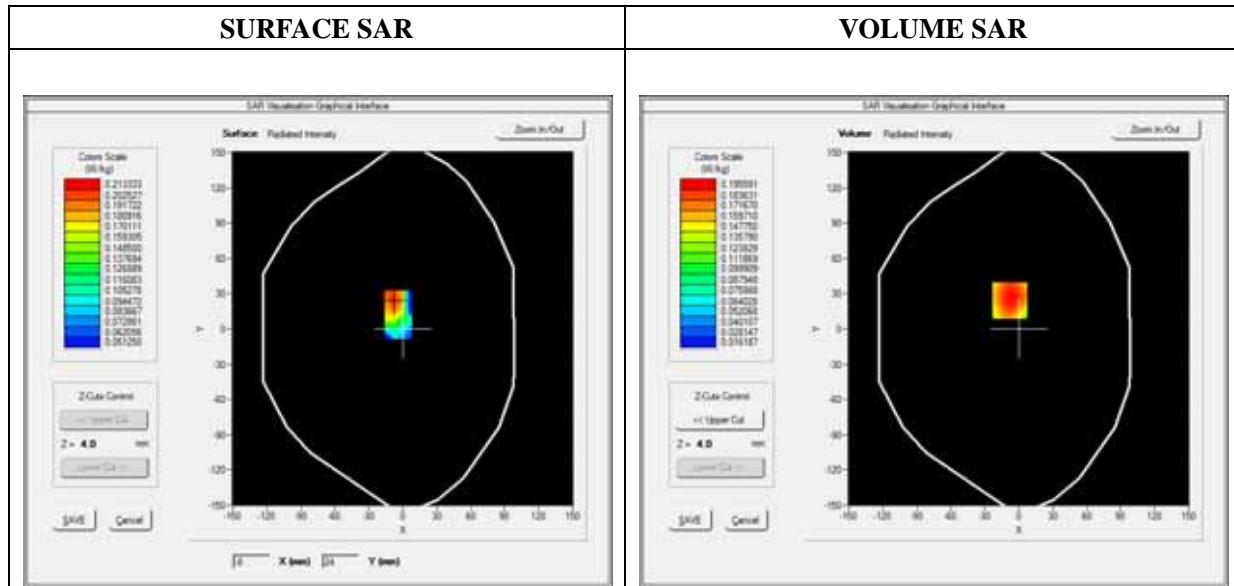
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

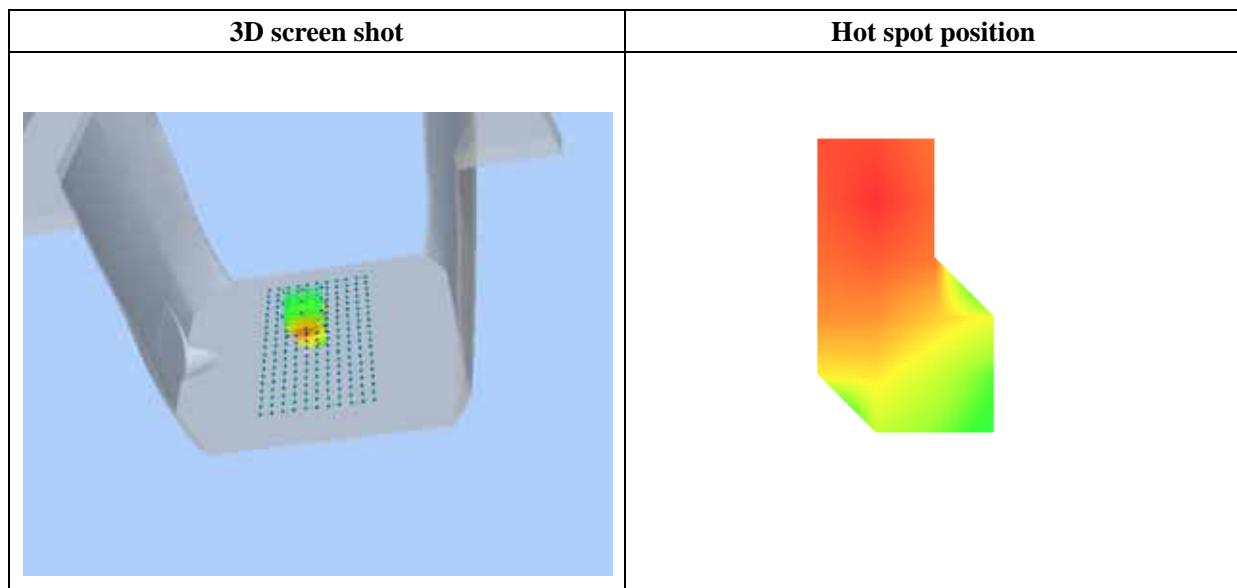
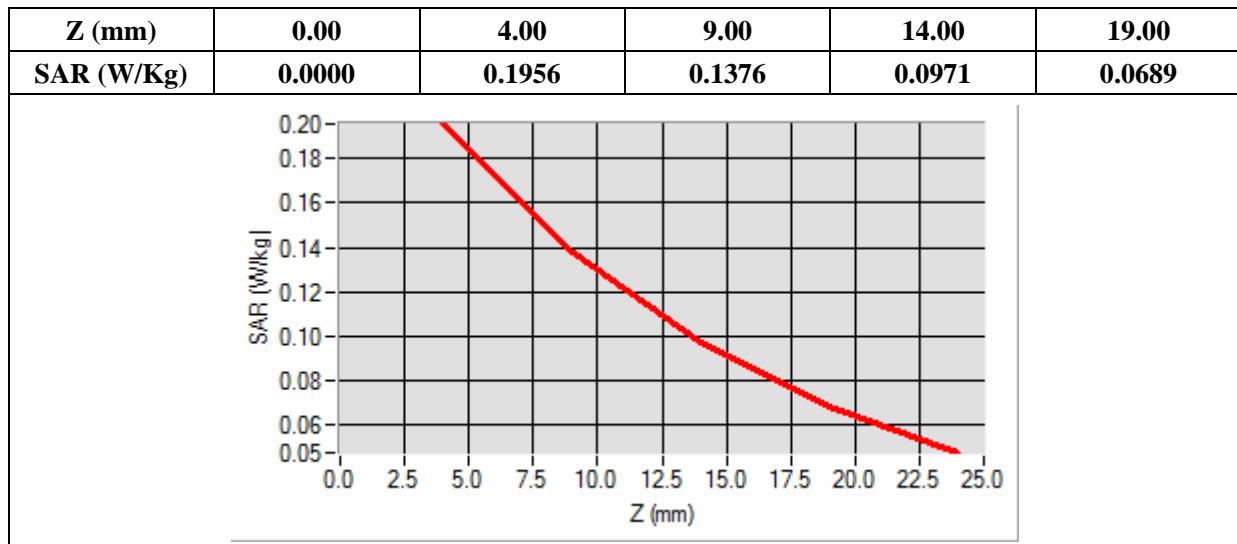
B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	1.474622
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-8.00, Y=24.00

SAR 10g (W/Kg)	0.152902
SAR 1g (W/Kg)	0.228322



MEASUREMENT 17

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

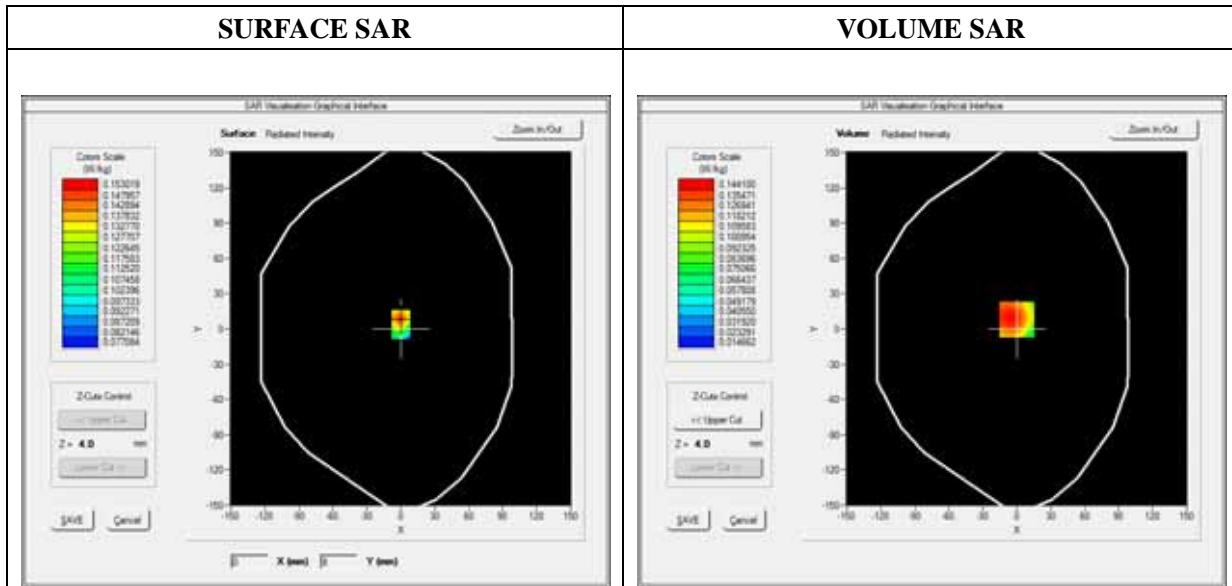
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

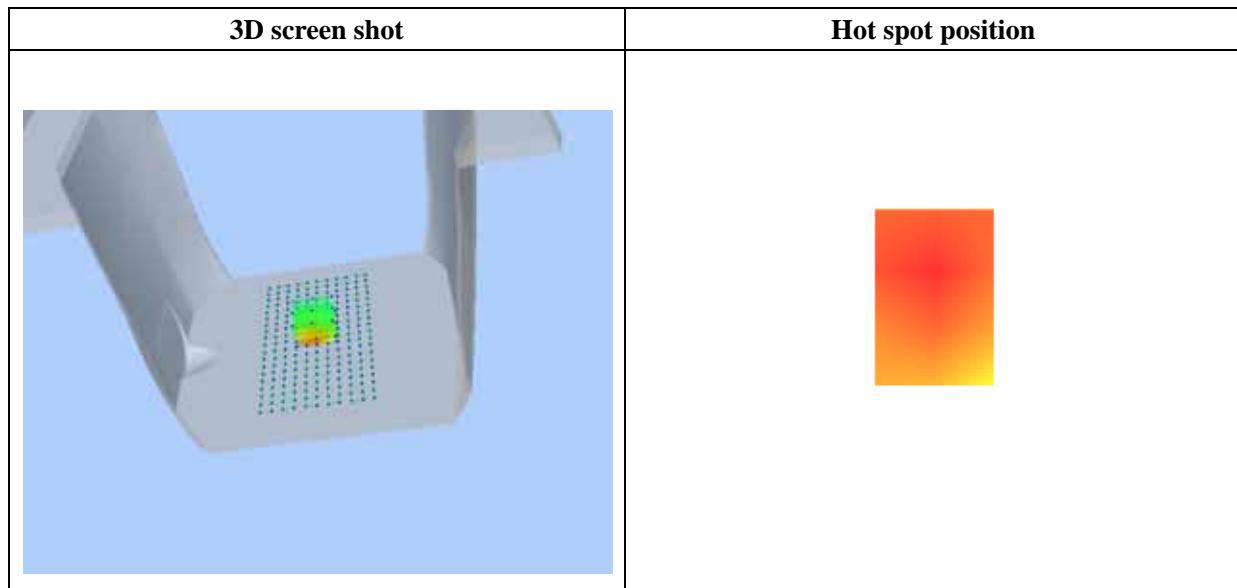
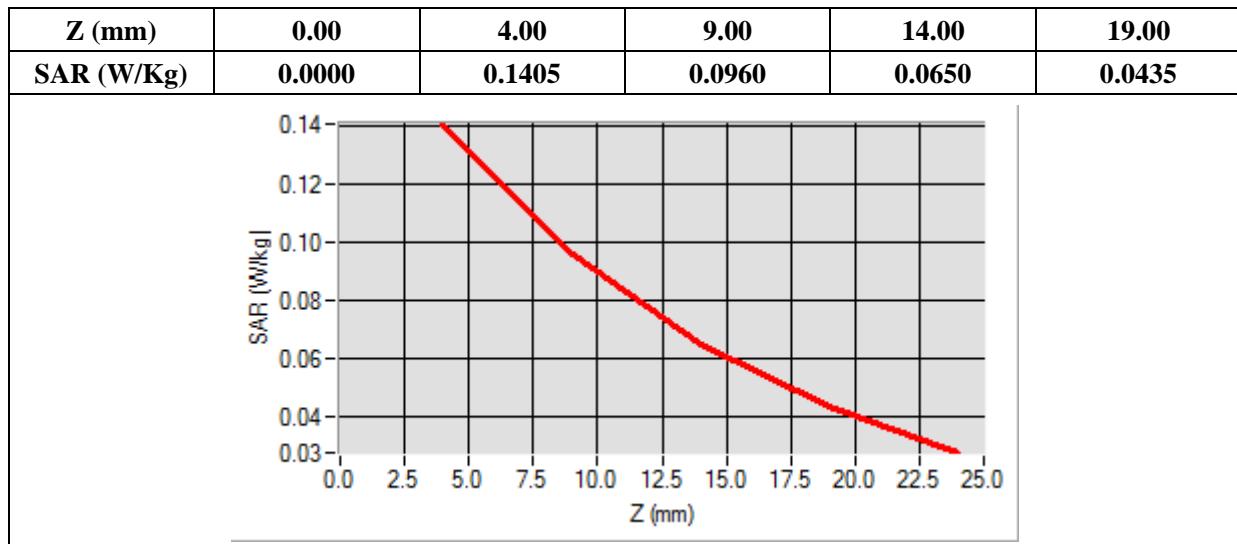
B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.553453
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=0.00, Y=8.00

SAR 10g (W/Kg)	0.109828
SAR 1g (W/Kg)	0.167924



MEASUREMENT 18

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

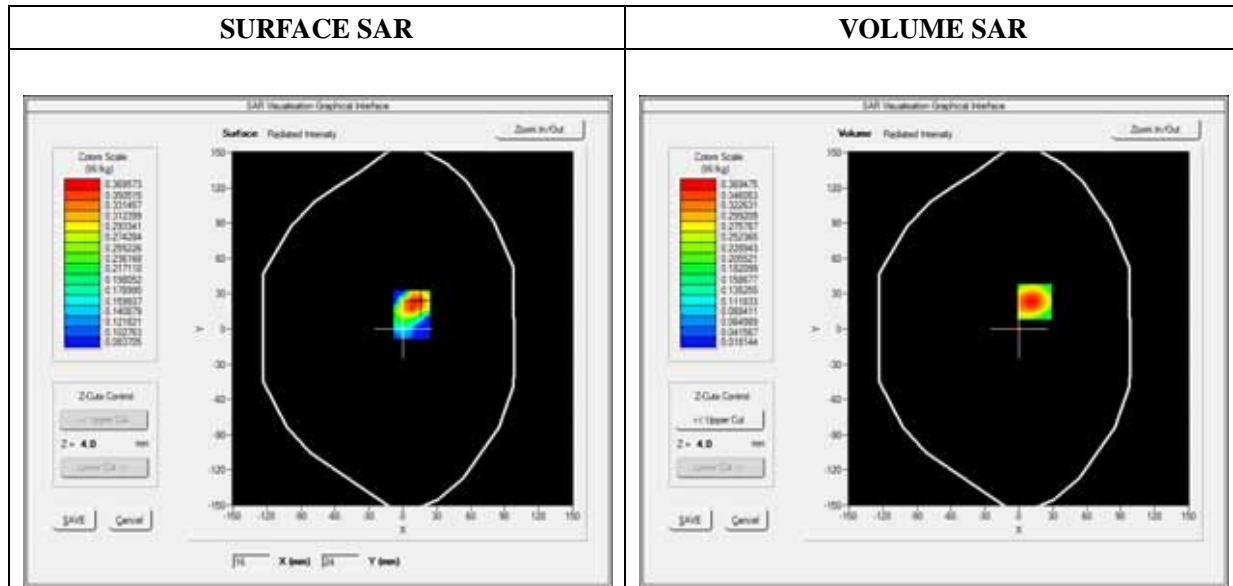
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Back
Band	GPRS1900_2TX
Channels	Middle
Signal	Duty Cycle 1:2

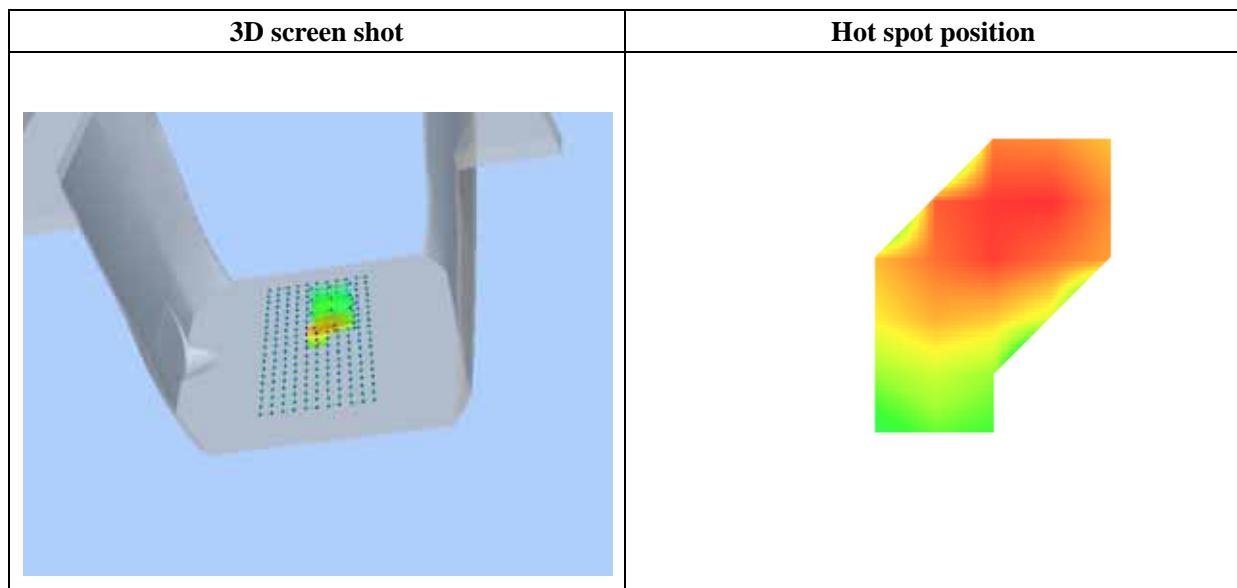
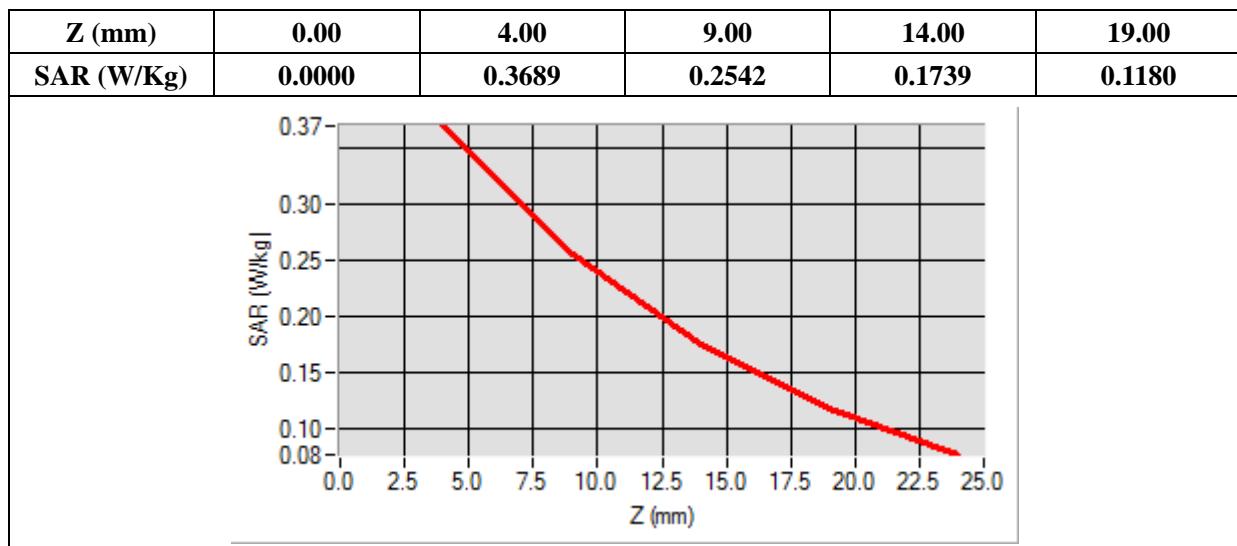
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	1.534645
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=14.00, Y=23.00

SAR 10g (W/Kg)	0.216106
SAR 1g (W/Kg)	0.346880



MEASUREMENT 19

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

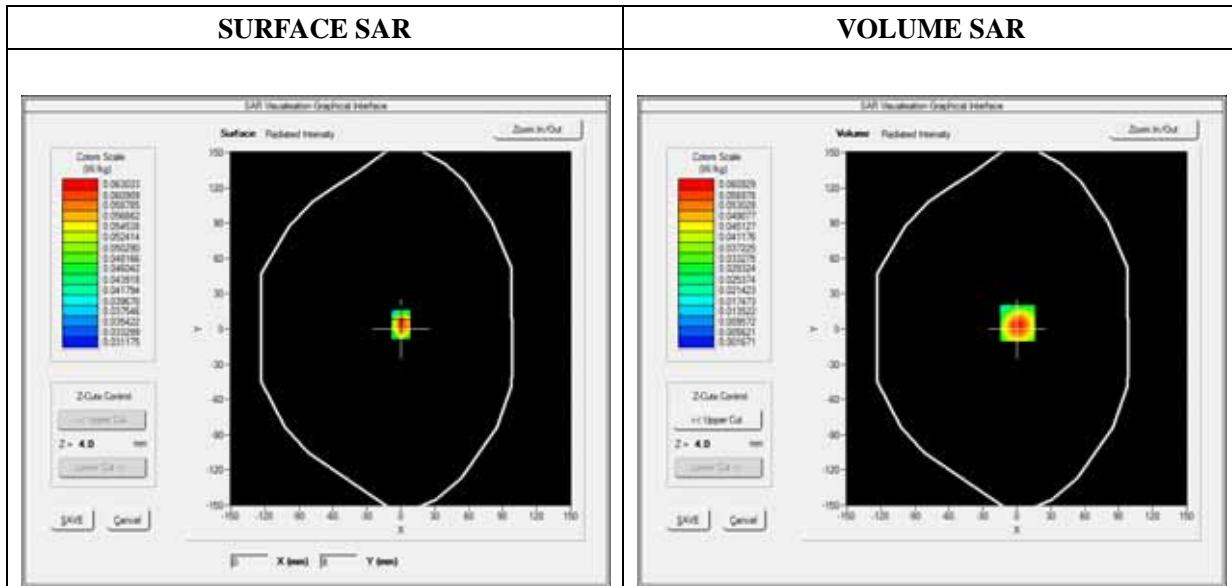
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Front
Band	GPRS1900_2TX
Channels	Middle
Signal	Duty Cycle 1:2

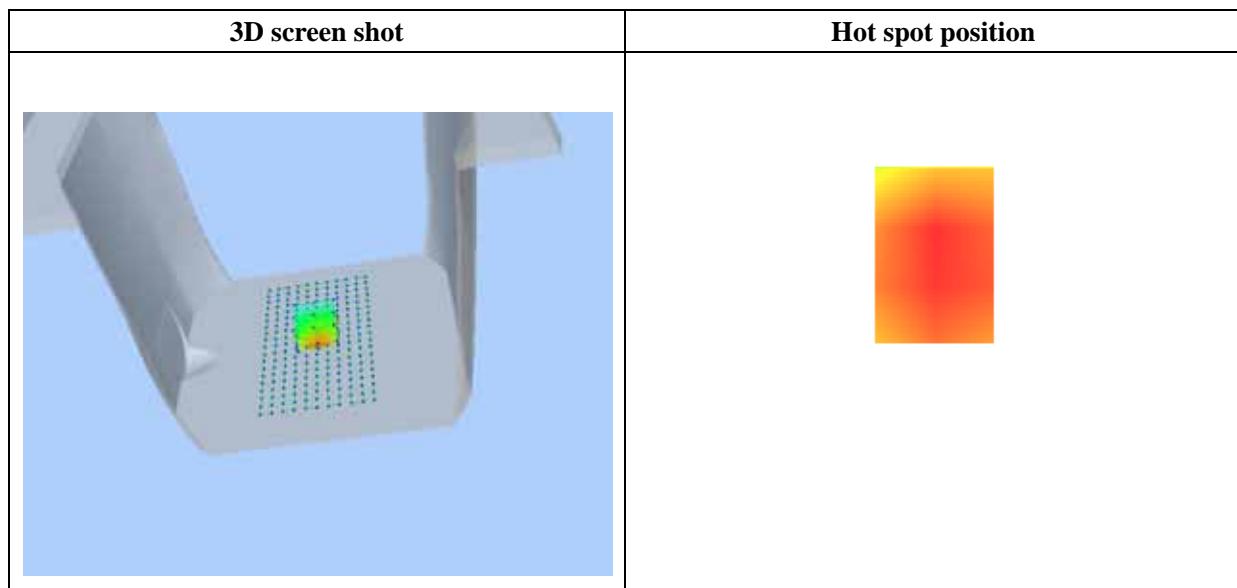
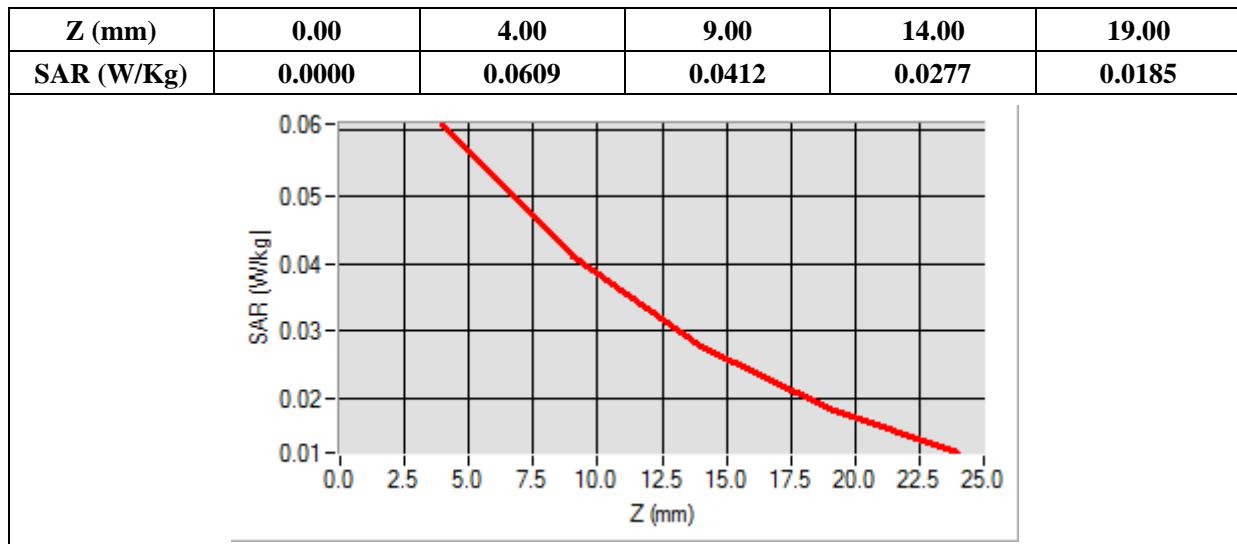
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.967457
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=5.00

SAR 10g (W/Kg)	0.034737
SAR 1g (W/Kg)	0.056901



MEASUREMENT 20

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

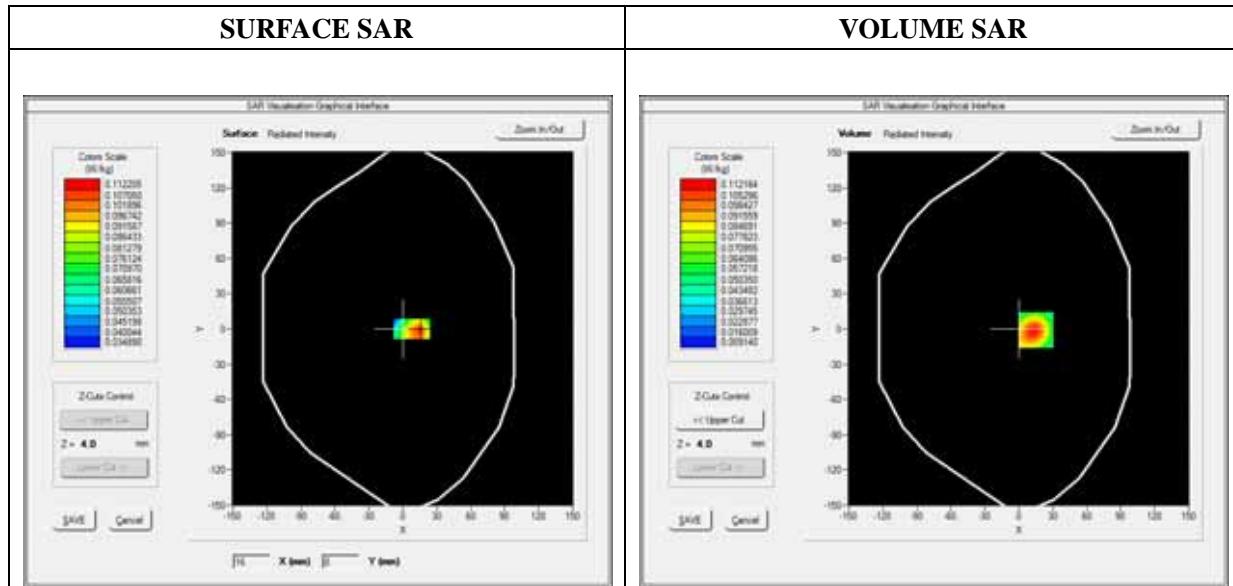
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Bottom
Band	GPRS1900_2TX
Channels	Middle
Signal	Duty Cycle 1:2

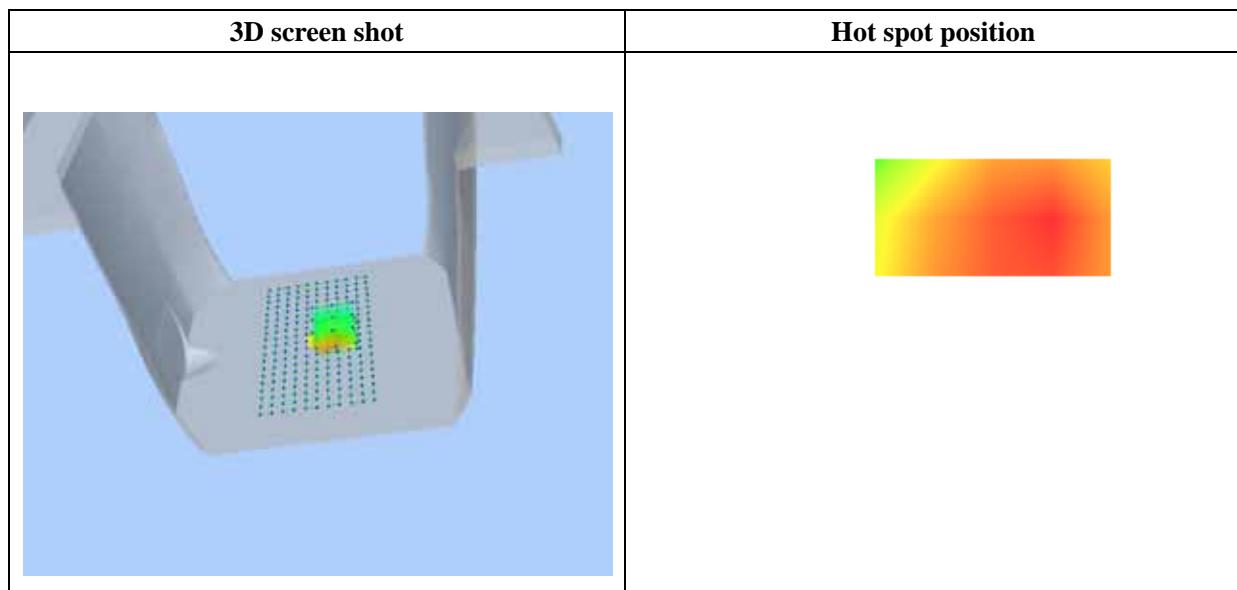
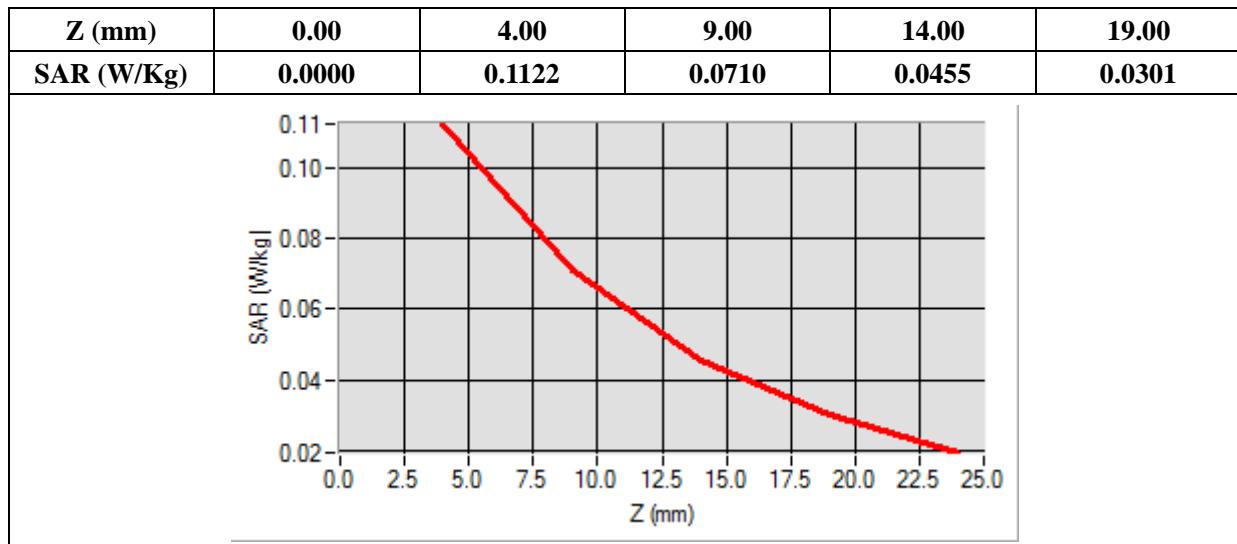
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	2.483762
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=15.00, Y=-1.00

SAR 10g (W/Kg)	0.061977
SAR 1g (W/Kg)	0.104644



MEASUREMENT 21

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

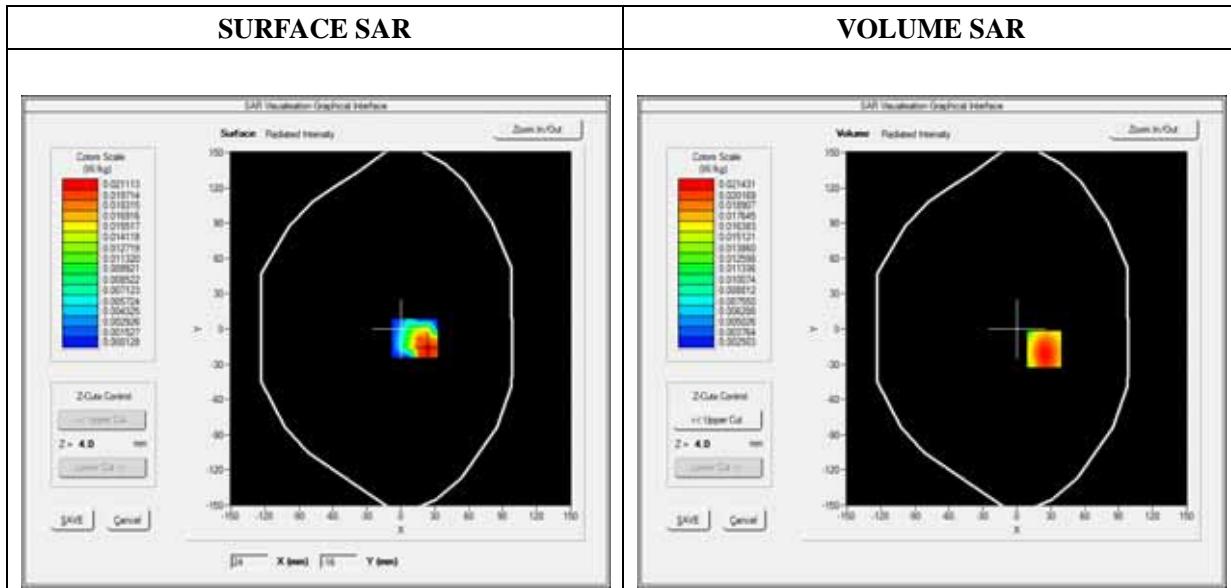
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Right side
Band	GPRS1900_2TX
Channels	Middle
Signal	Duty Cycle 1:2

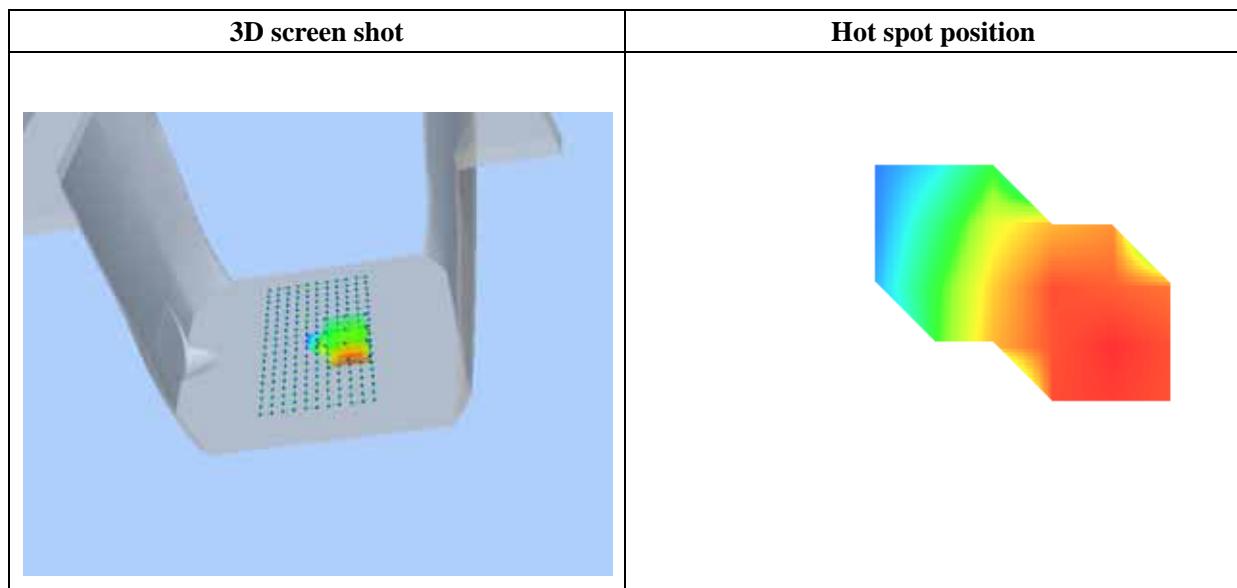
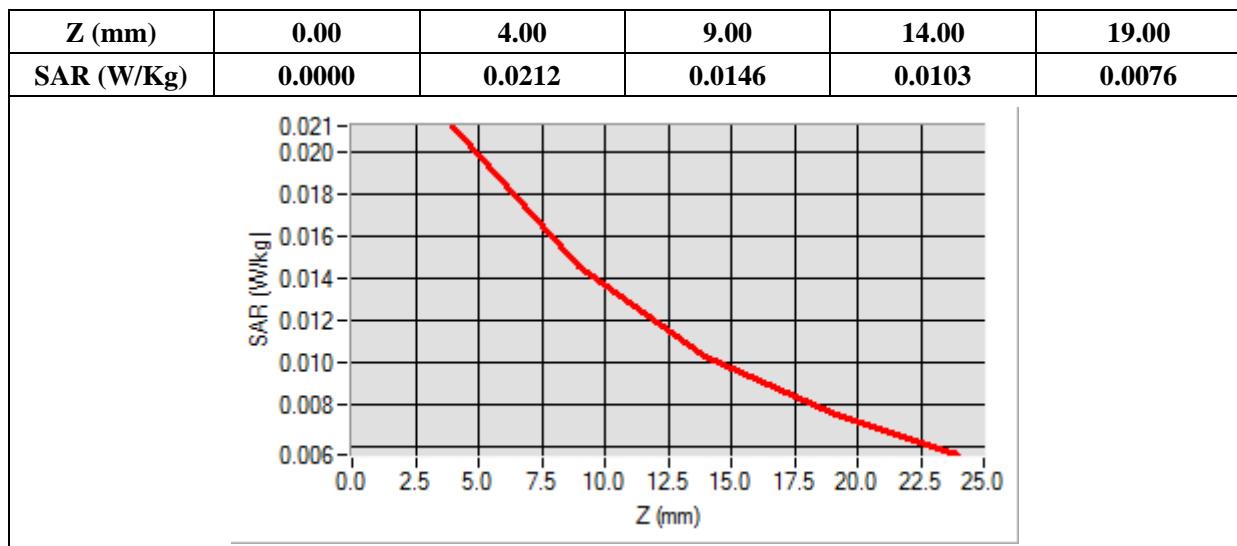
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	1.957265
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=24.00, Y=-17.00

SAR 10g (W/Kg)	0.013673
SAR 1g (W/Kg)	0.020428



MEASUREMENT 22

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

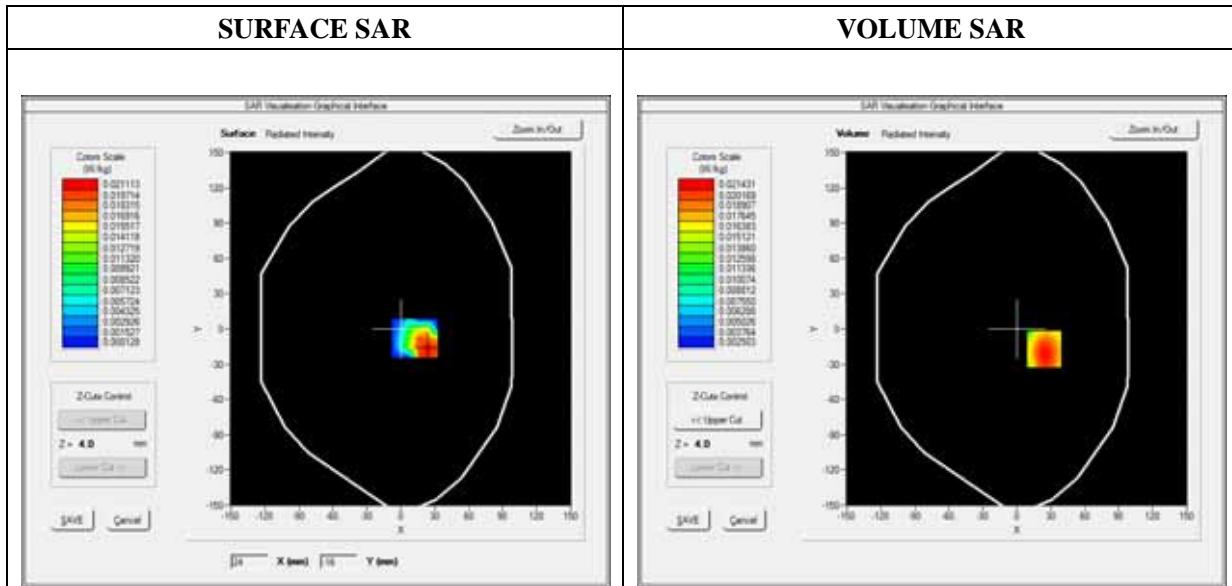
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Left side
Band	GPRS1900_2TX
Channels	Low
Signal	Duty Cycle 1:2

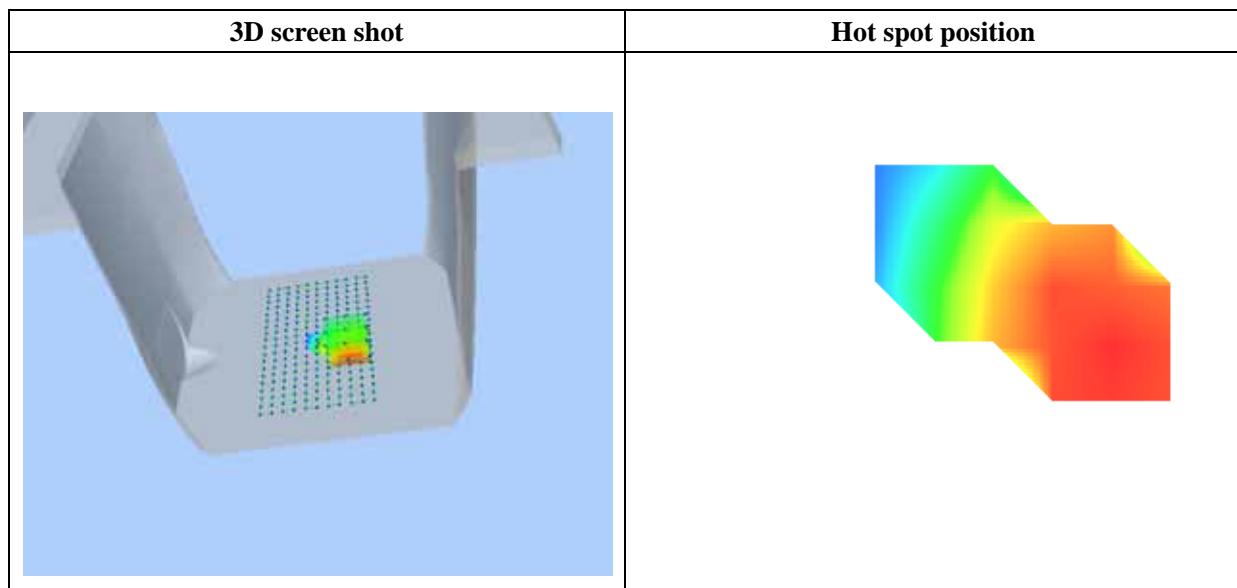
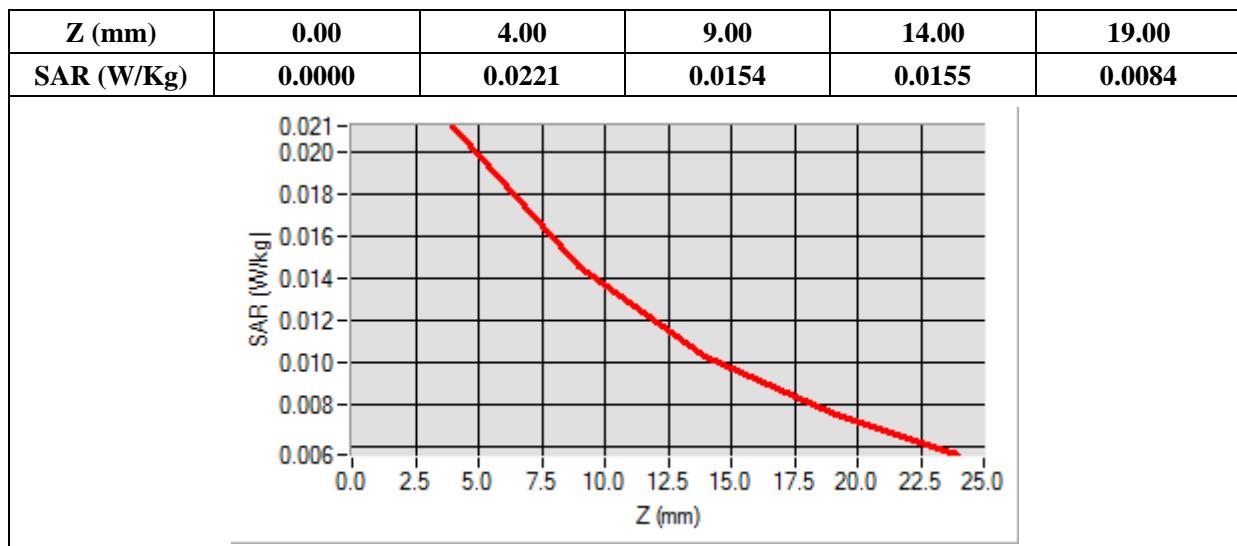
B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	2.184564
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=24.00, Y=-17.00

SAR 10g (W/Kg)	0.01646
SAR 1g (W/Kg)	0.02463



MEASUREMENT 23

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

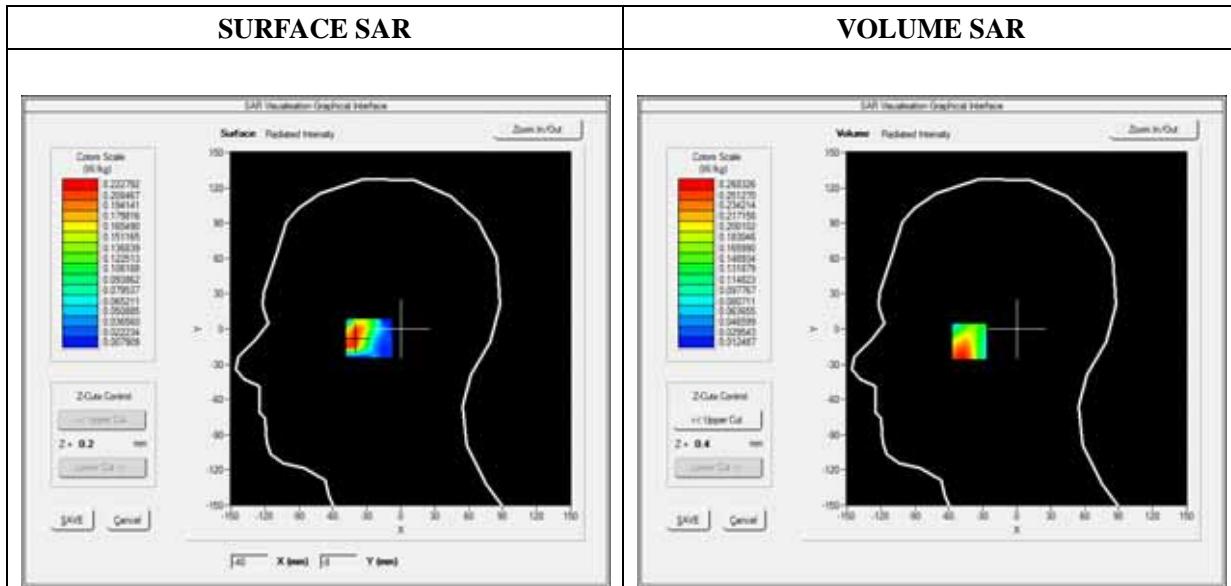
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

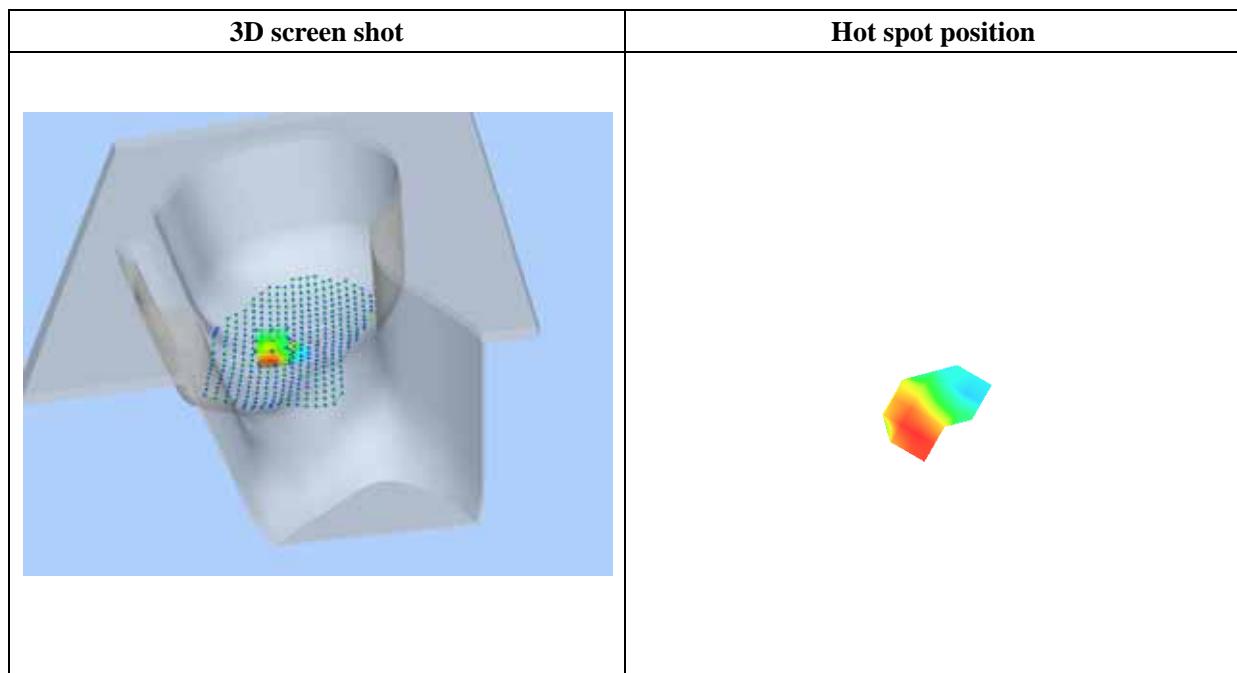
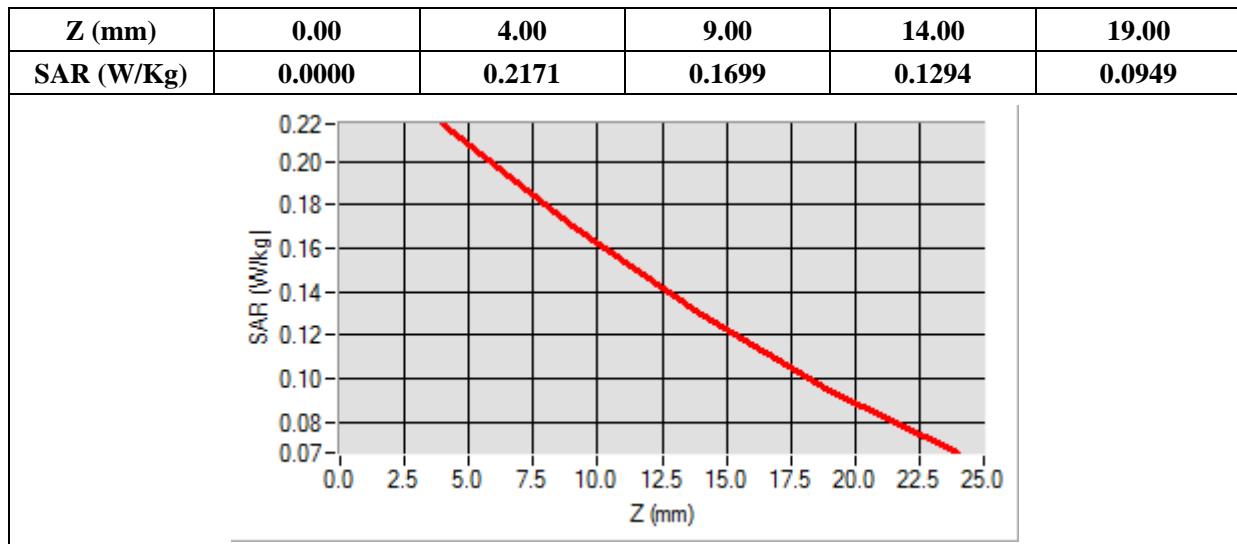
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.524540
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-42.00, Y=-10.00

SAR 10g (W/Kg)	0.161355
SAR 1g (W/Kg)	0.247631



MEASUREMENT 24

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

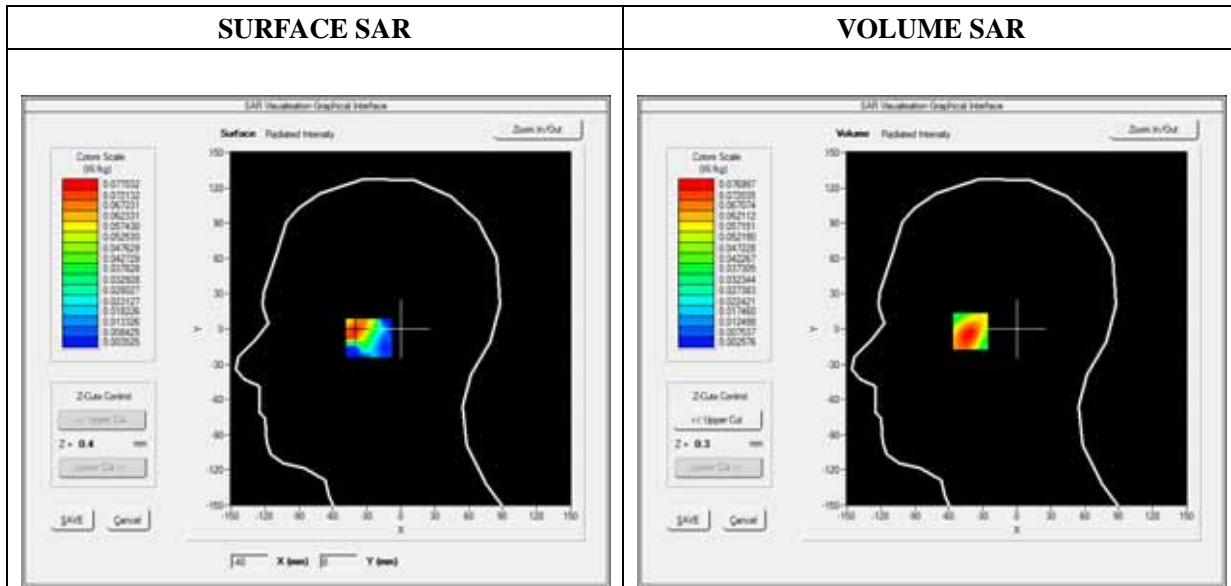
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

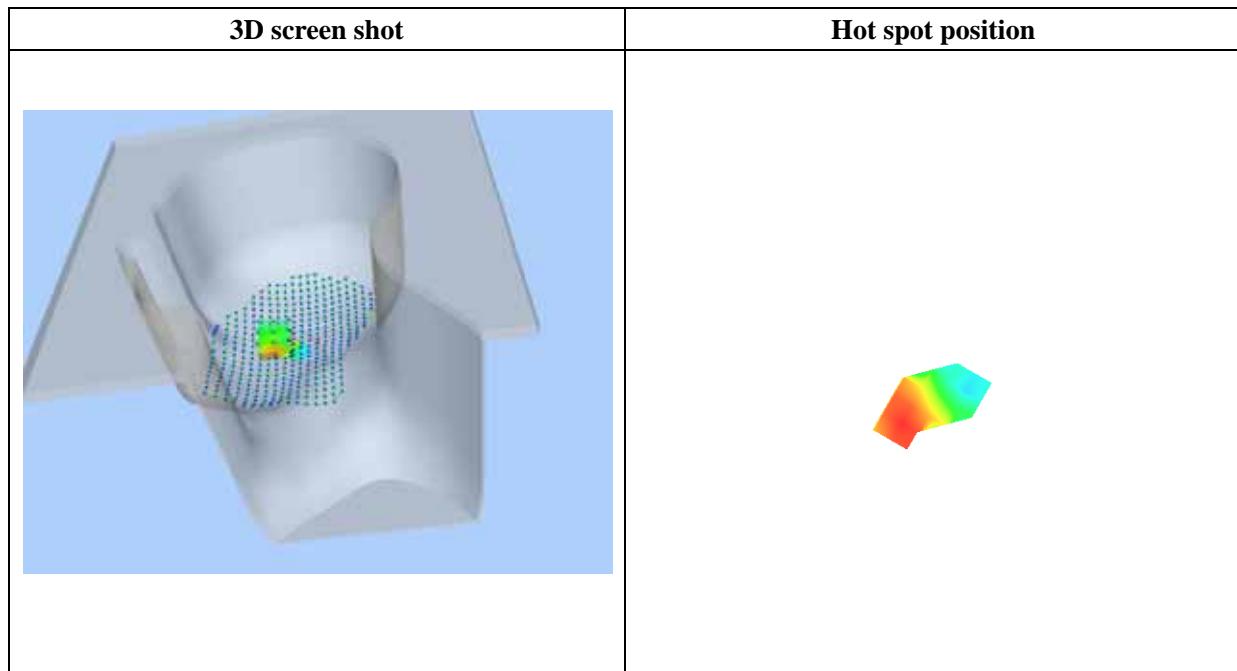
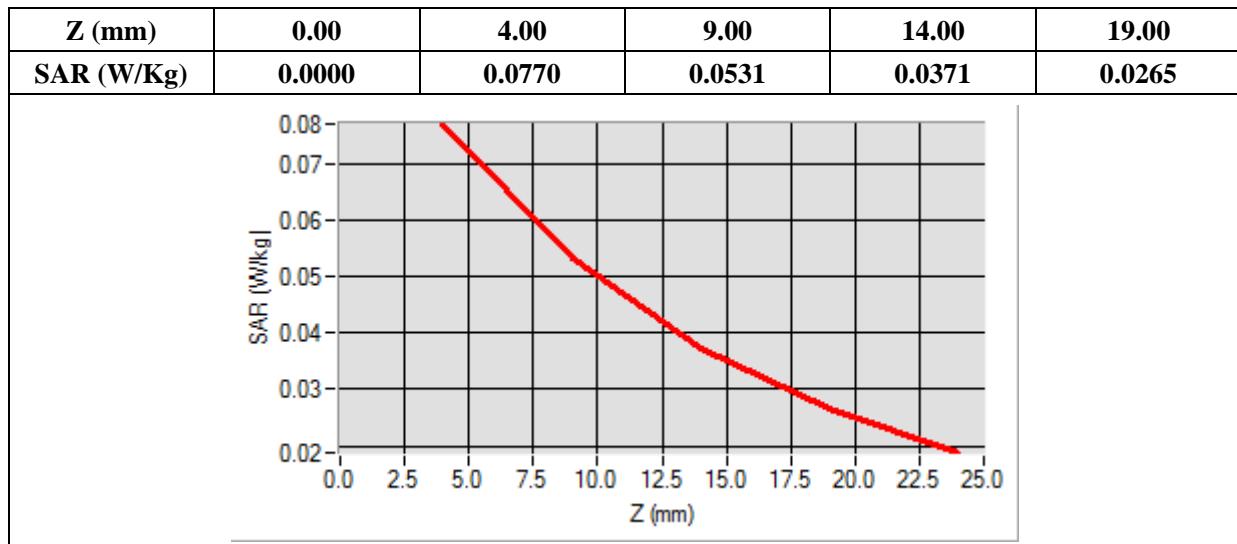
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.324565
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-41.00, Y=-1.00

SAR 10g (W/Kg)	0.046881
SAR 1g (W/Kg)	0.072935



MEASUREMENT 25

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

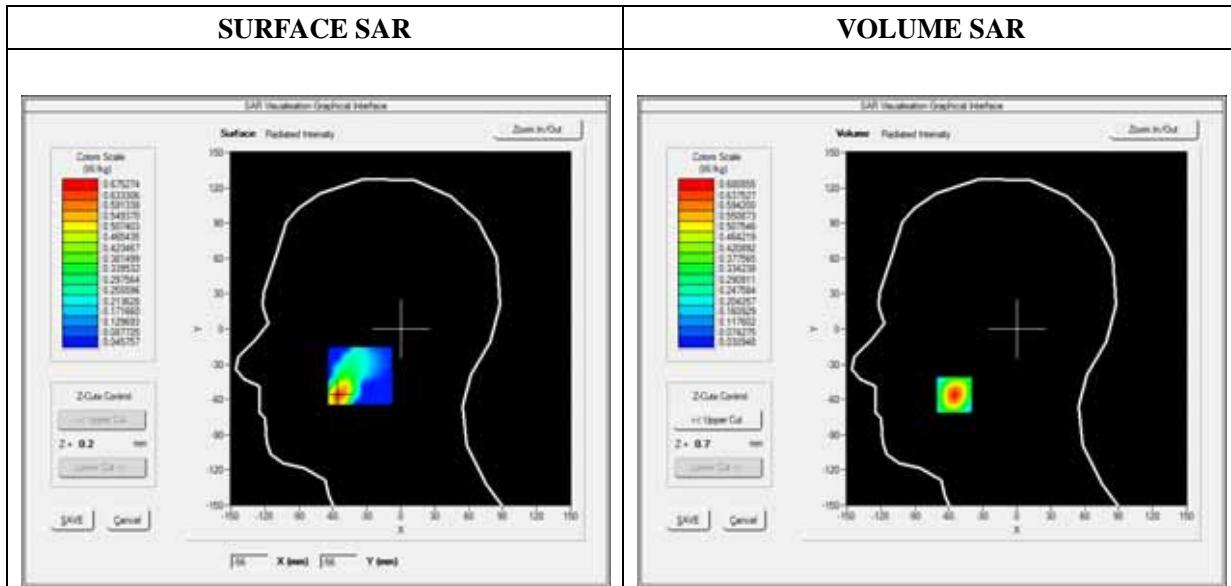
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

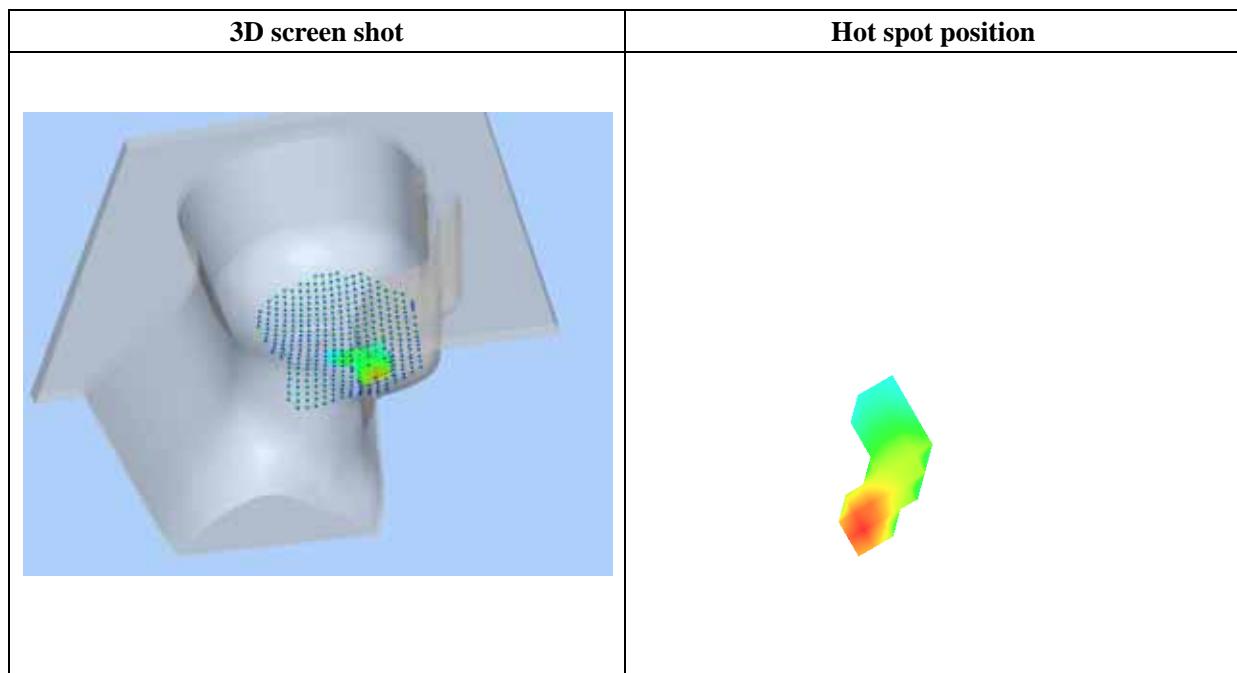
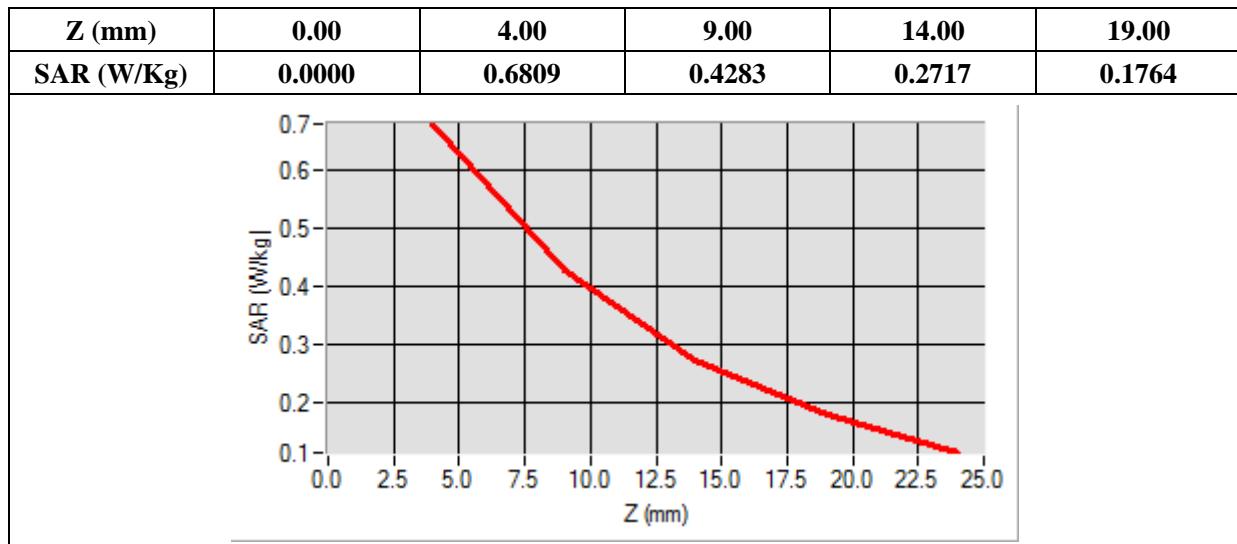
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.653352
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-55.00, Y=-56.00

SAR 10g (W/Kg)	0.341796
SAR 1g (W/Kg)	0.613911



MEASUREMENT 26

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

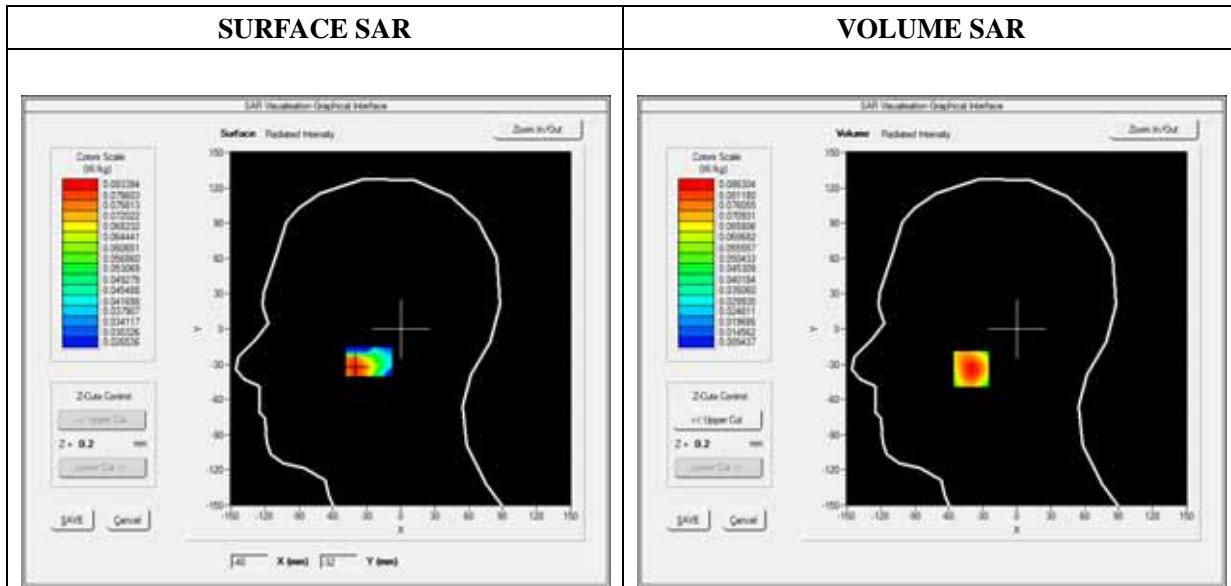
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

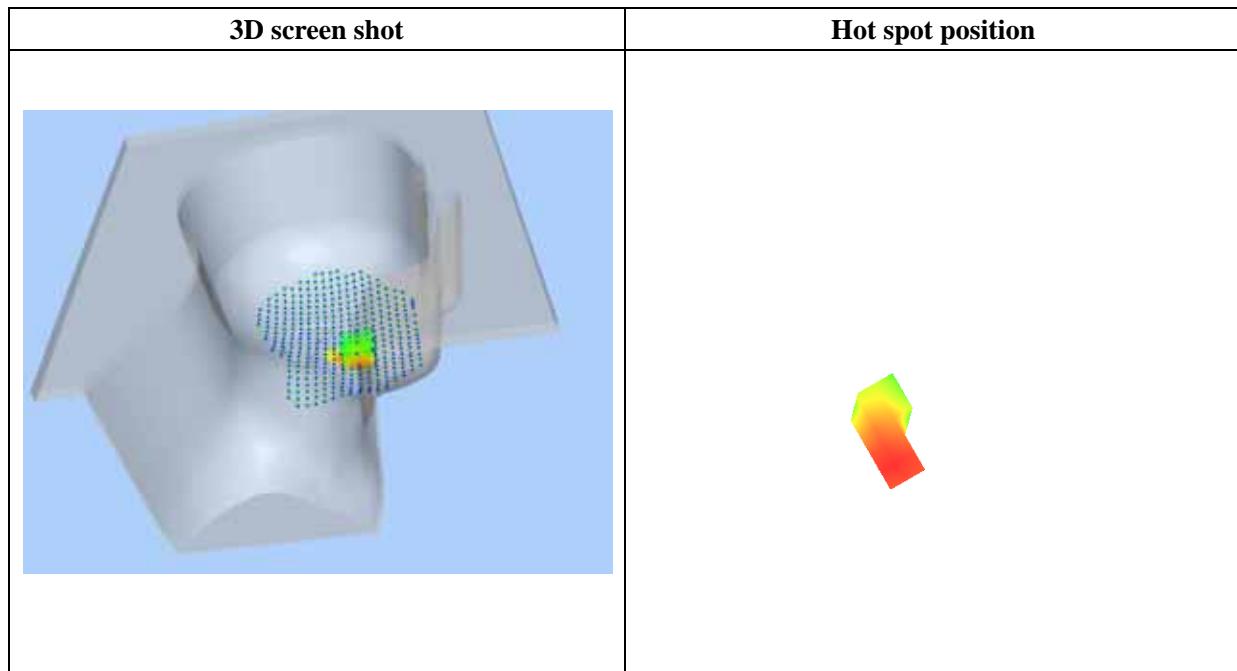
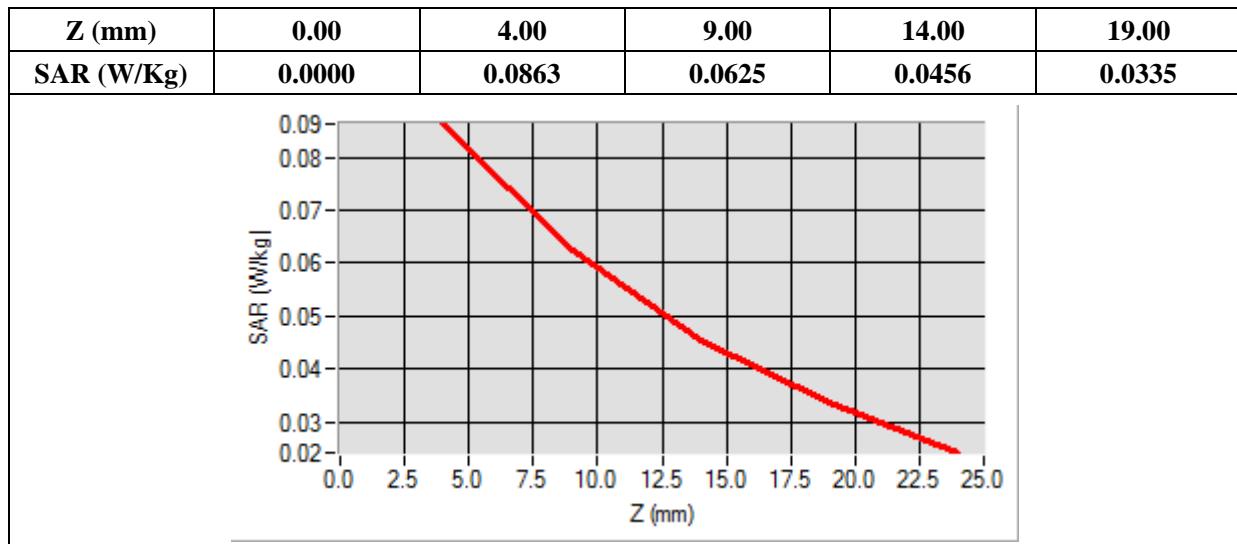
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	1.532452
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-40.00, Y=-34.00

SAR 10g (W/Kg)	0.055221
SAR 1g (W/Kg)	0.081561



MEASUREMENT 27

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

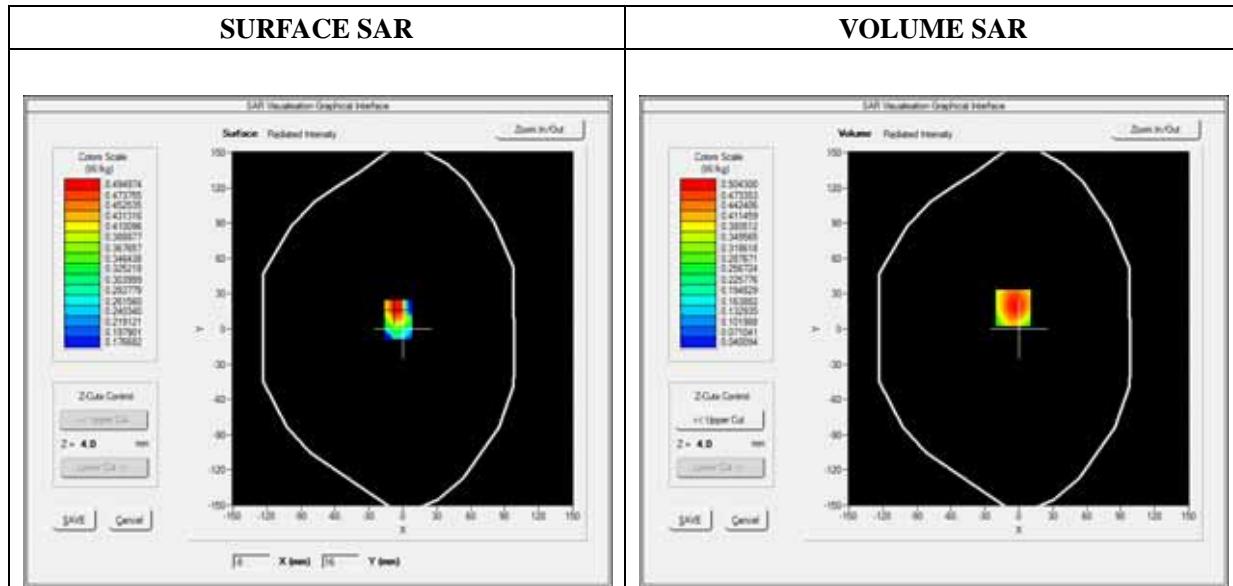
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

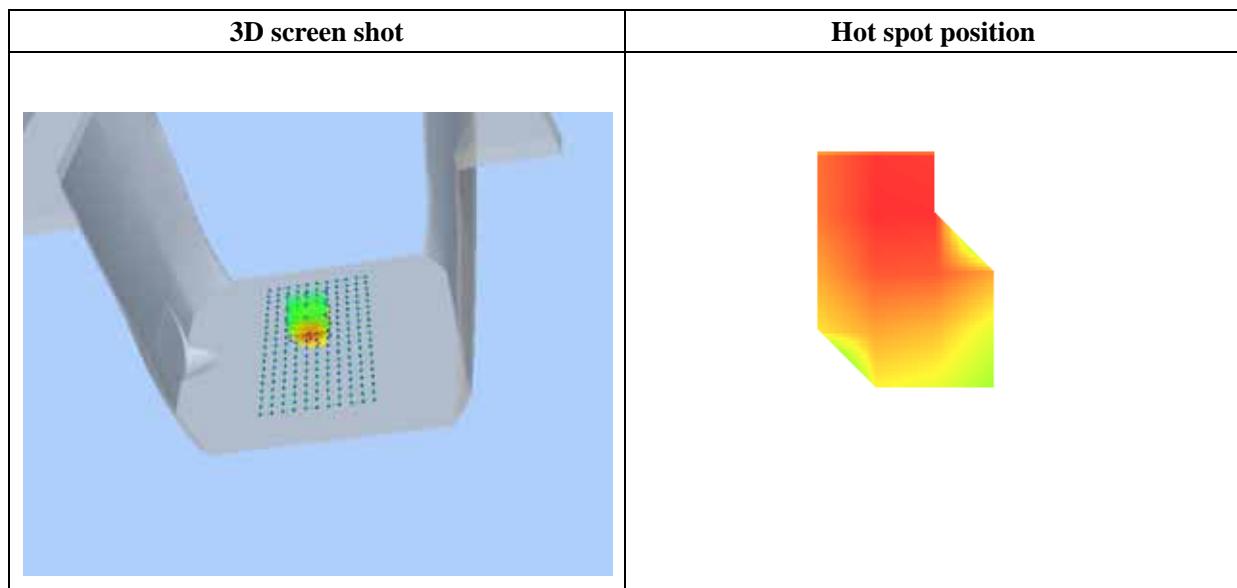
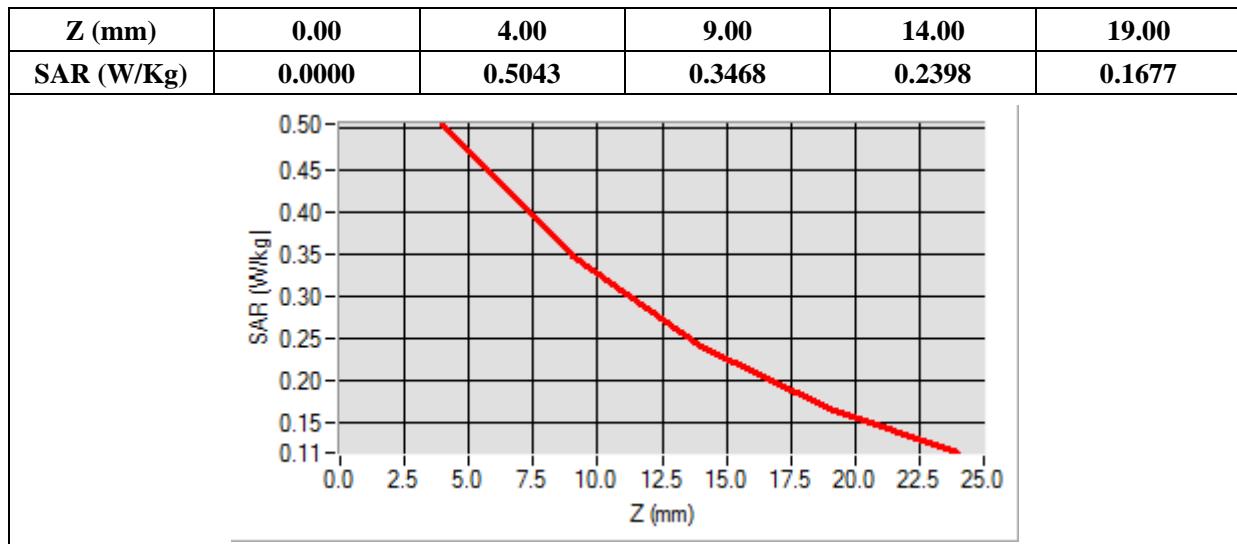
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	1.534242
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-5.00, Y=18.00

SAR 10g (W/Kg)	0.312453
SAR 1g (W/Kg)	0.479770



MEASUREMENT 28

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

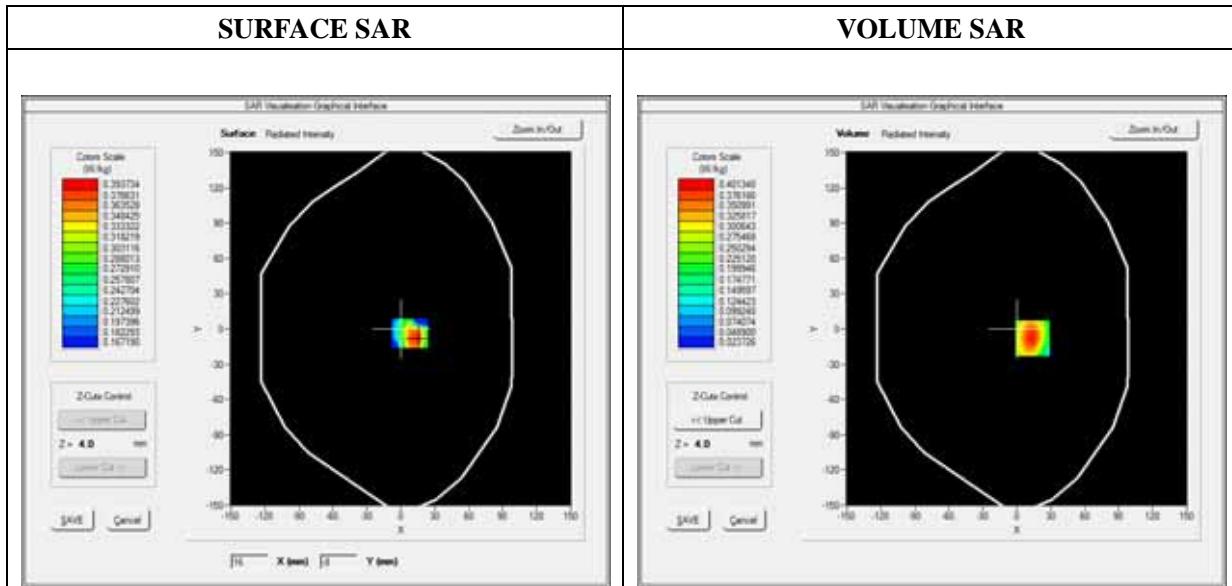
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

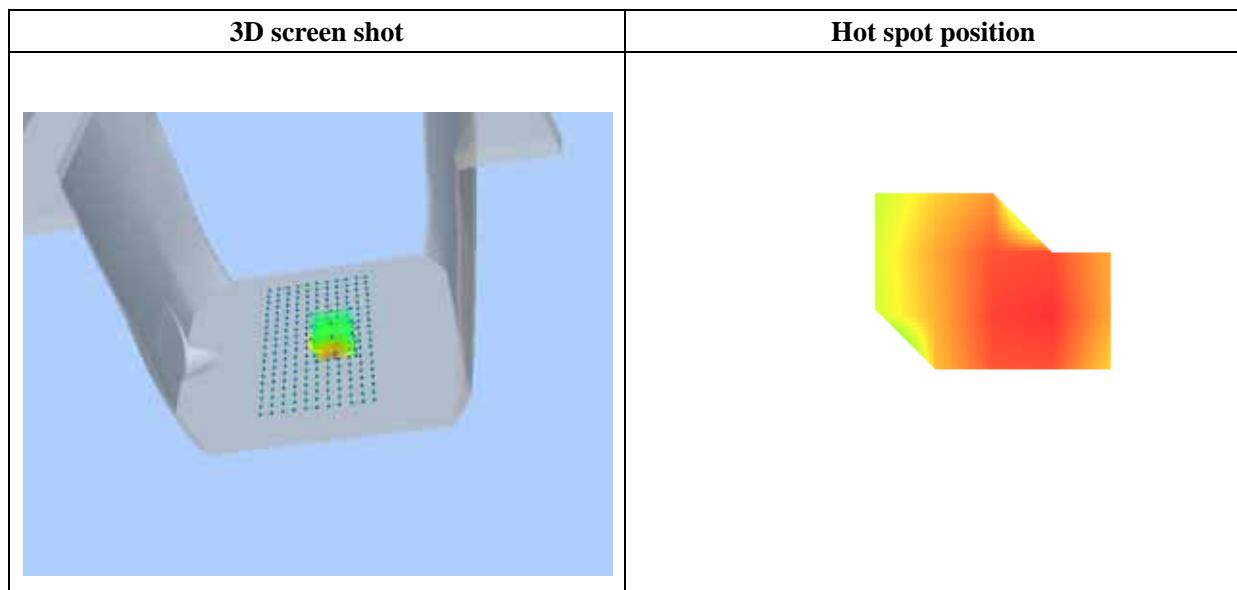
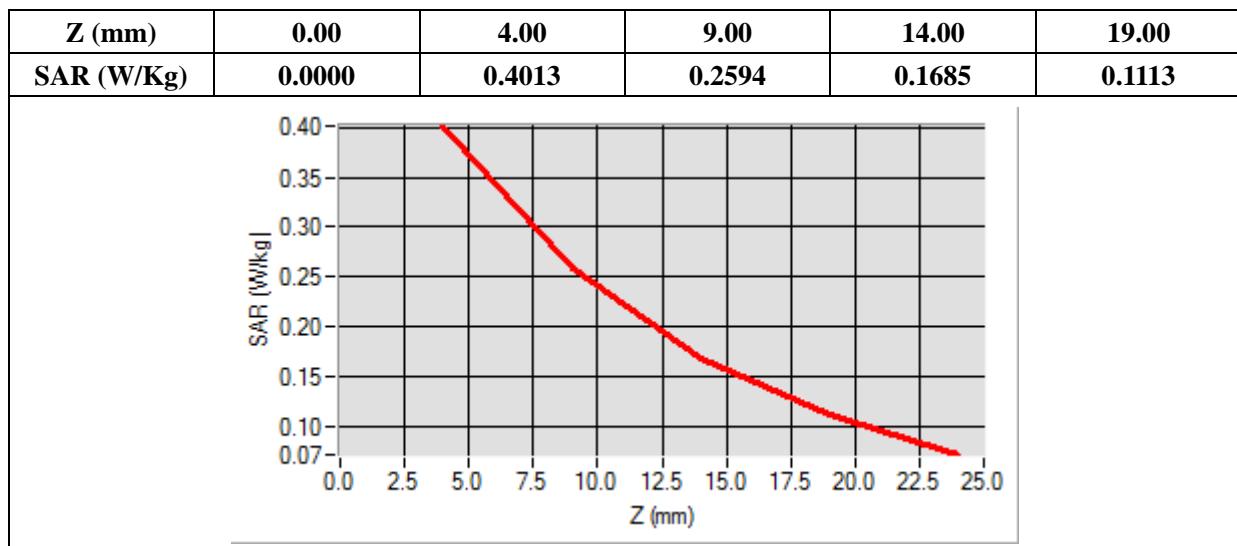
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.906634
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=14.00, Y=-8.00

SAR 10g (W/Kg)	0.225603
SAR 1g (W/Kg)	0.373458



MEASUREMENT 29

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

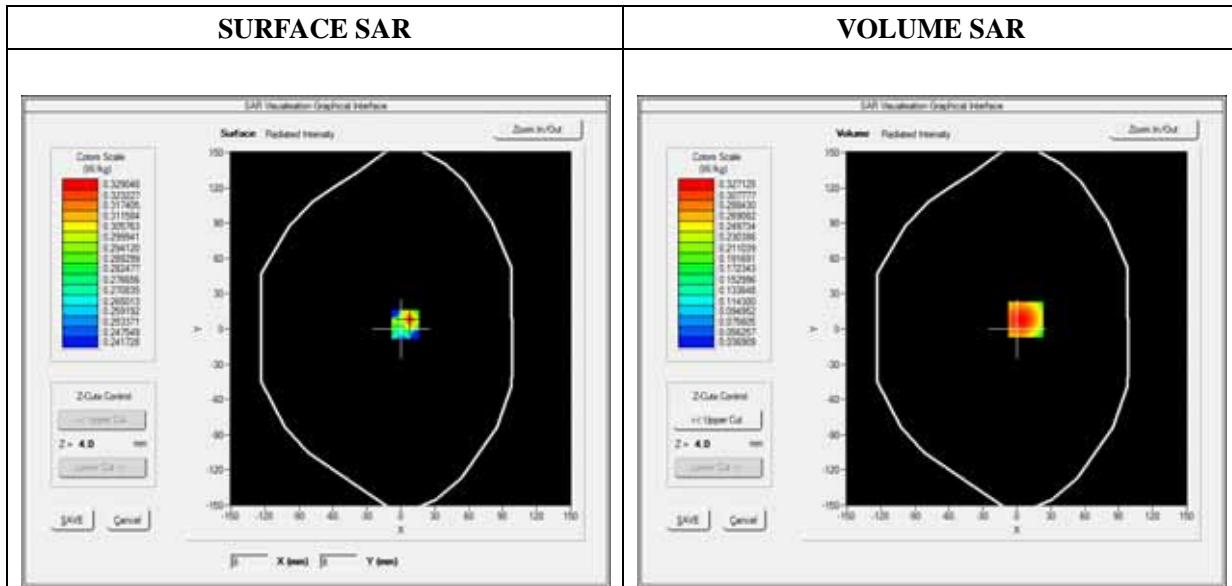
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

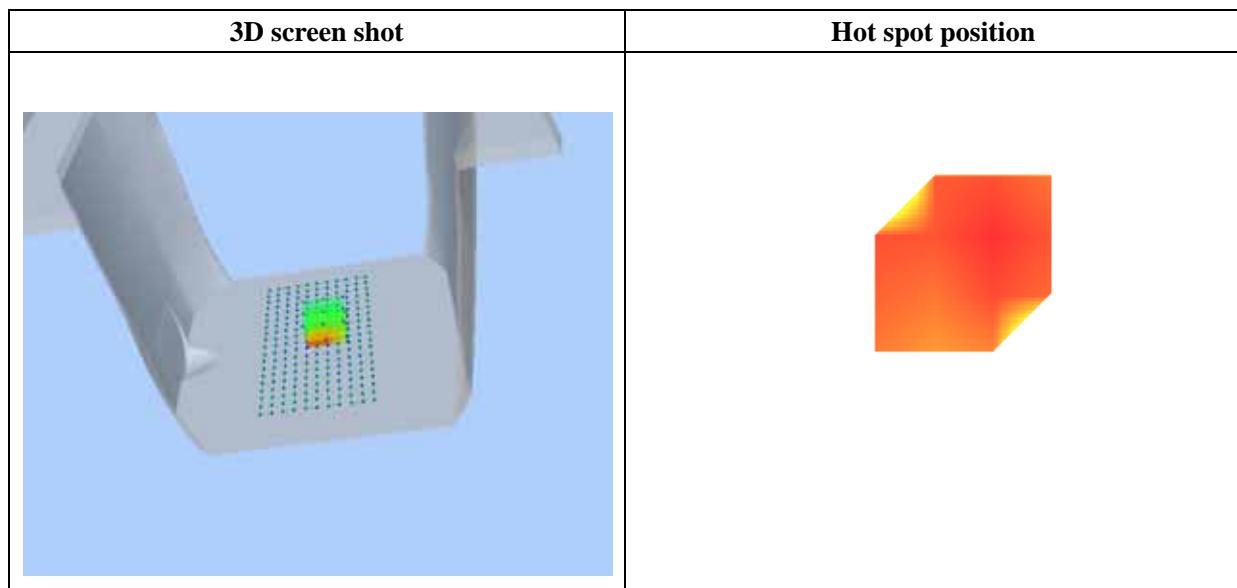
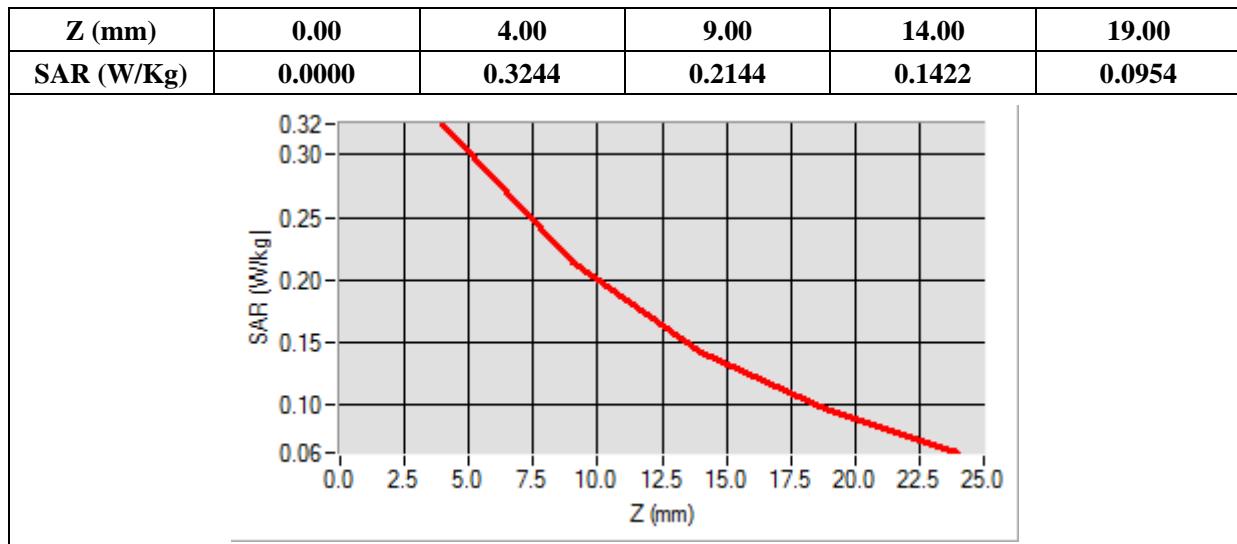
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	1.847552
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=8.00, Y=8.00

SAR 10g (W/Kg)	0.199675
SAR 1g (W/Kg)	0.310932



MEASUREMENT 30

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

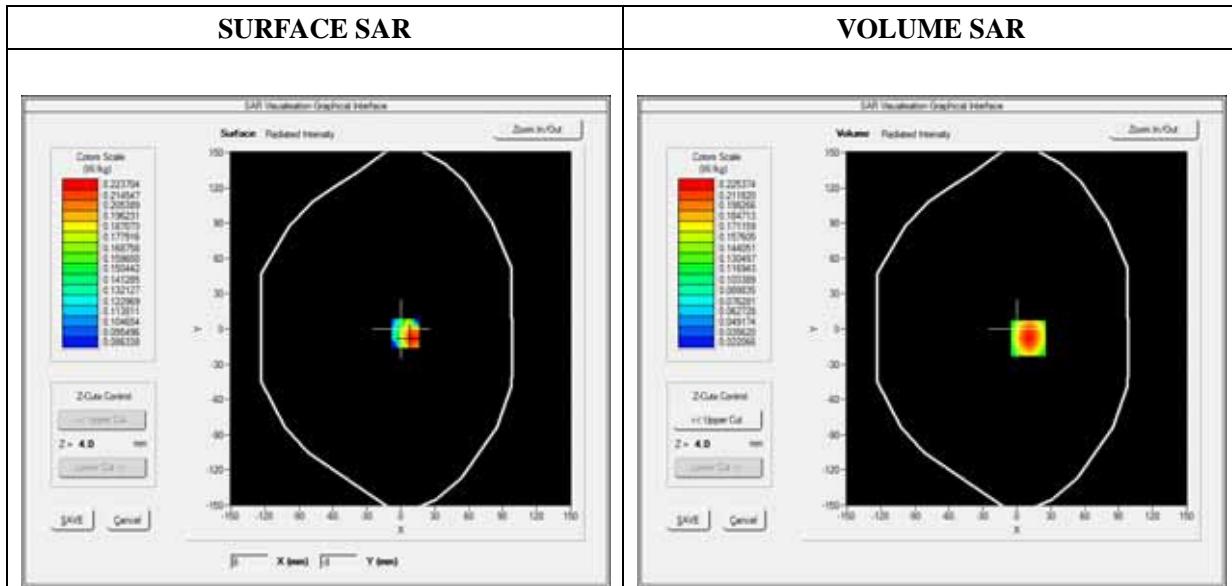
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

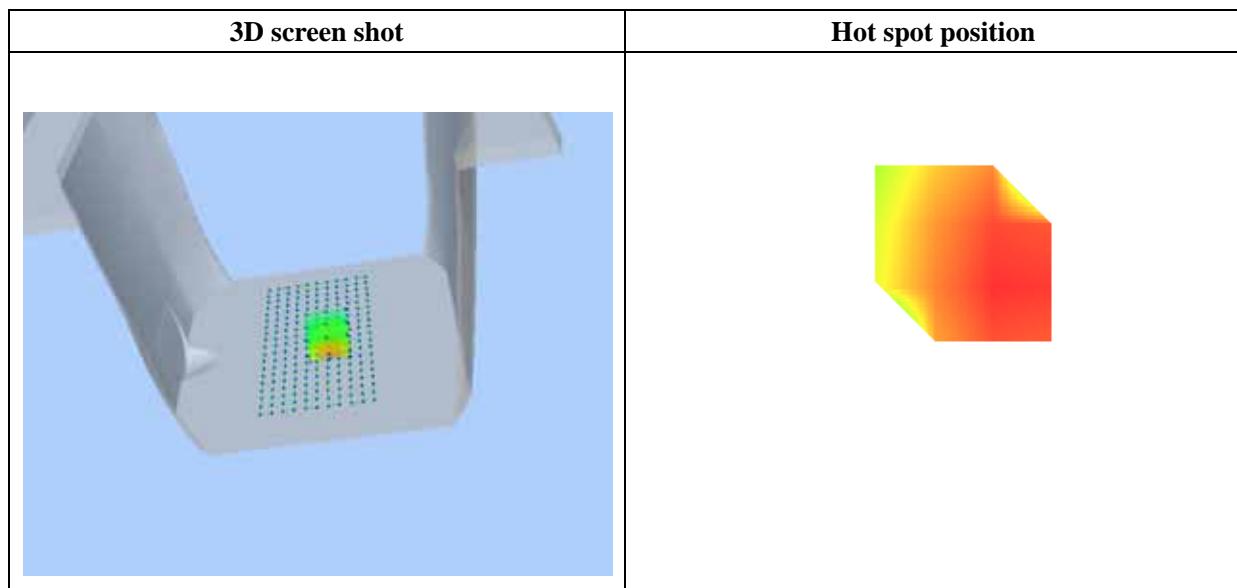
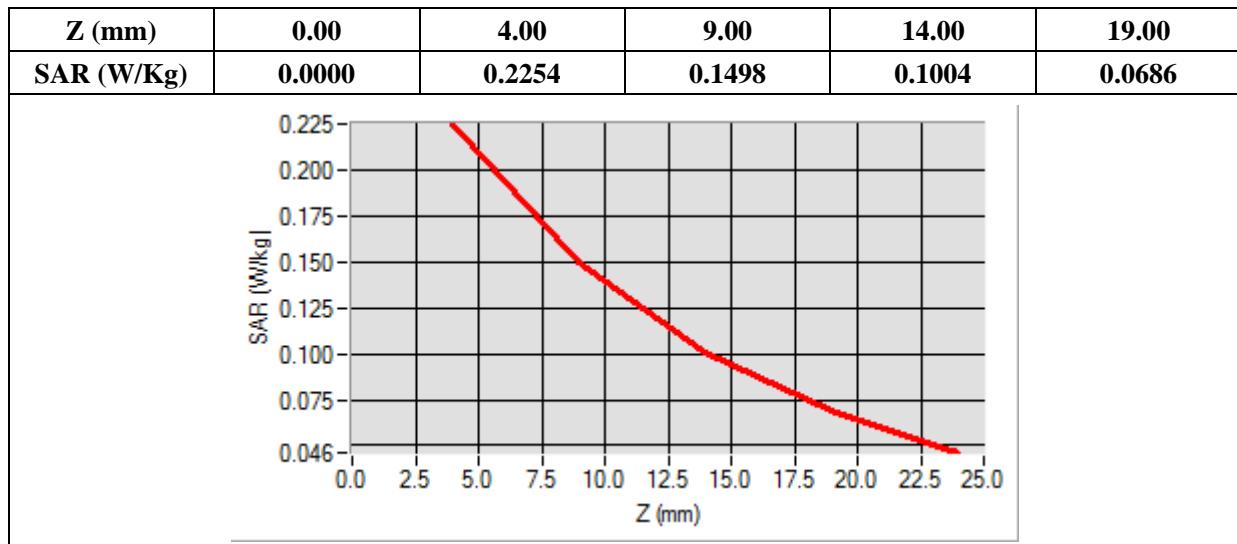
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	1.583732
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=10.00, Y=-8.00

SAR 10g (W/Kg)	0.131705
SAR 1g (W/Kg)	0.210703



MEASUREMENT 31

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

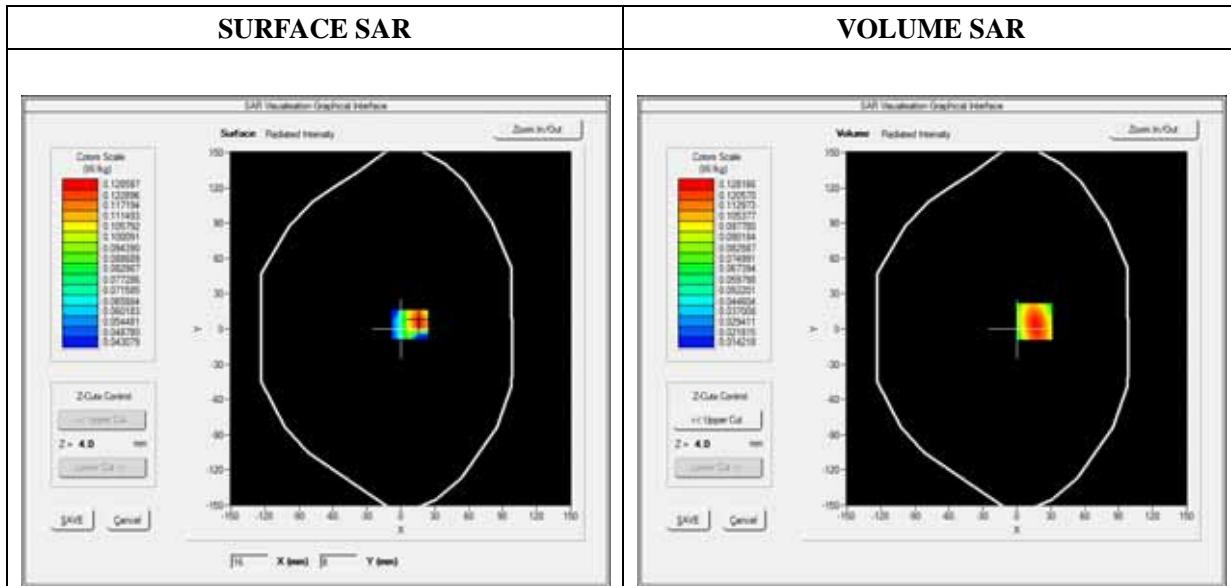
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

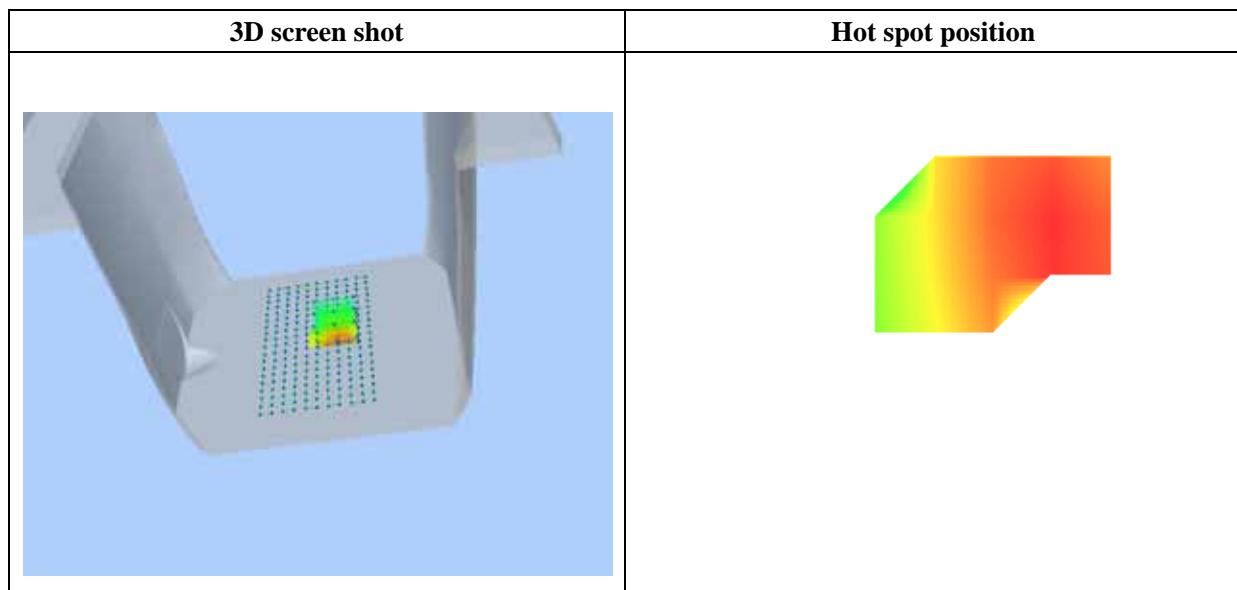
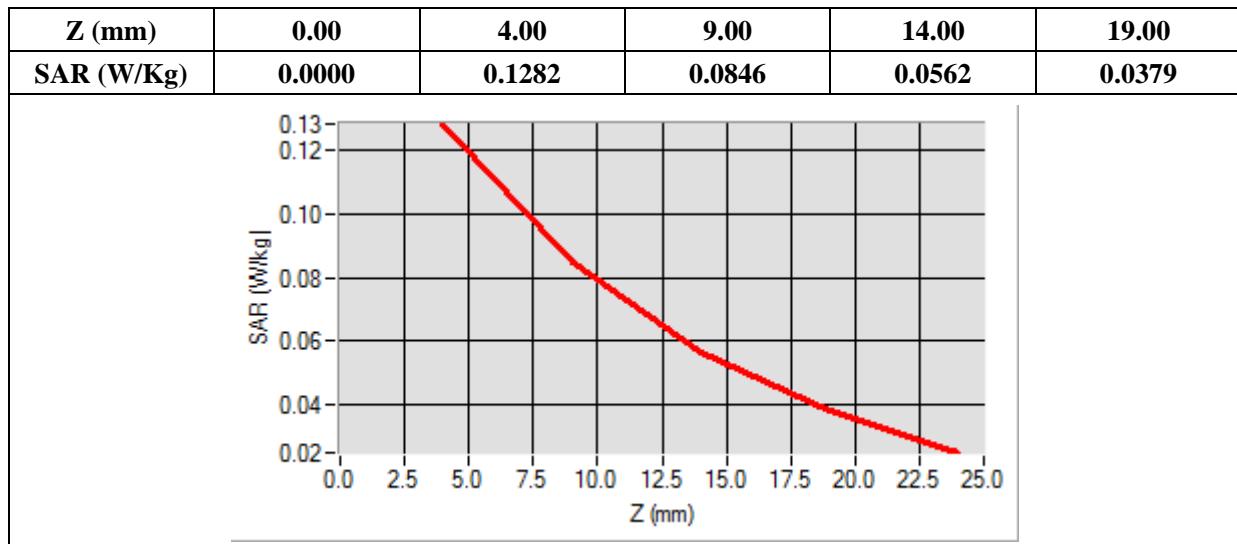
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	2.232134
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=16.00, Y=6.00

SAR 10g (W/Kg)	0.076614
SAR 1g (W/Kg)	0.120911



MEASUREMENT 32

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

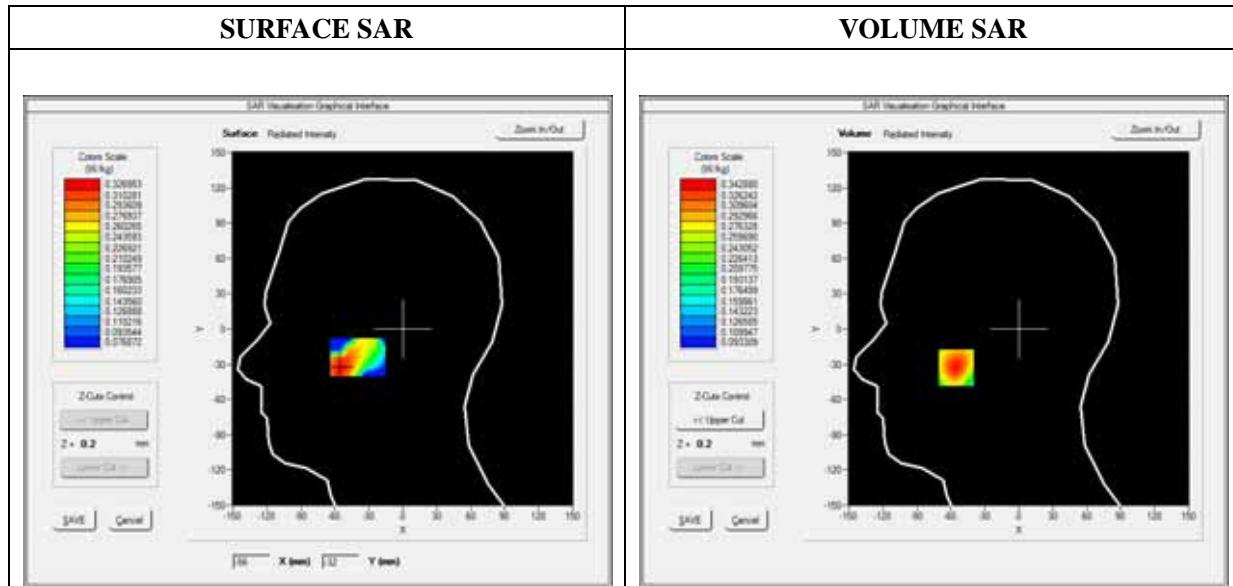
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

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

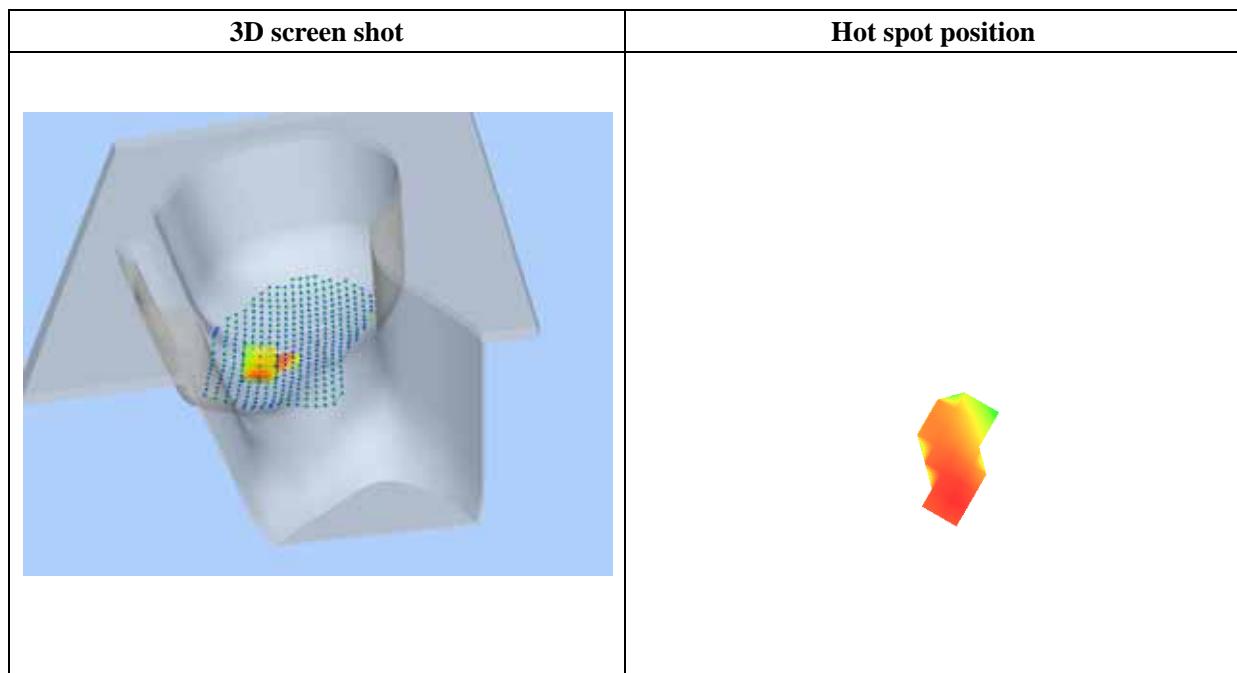
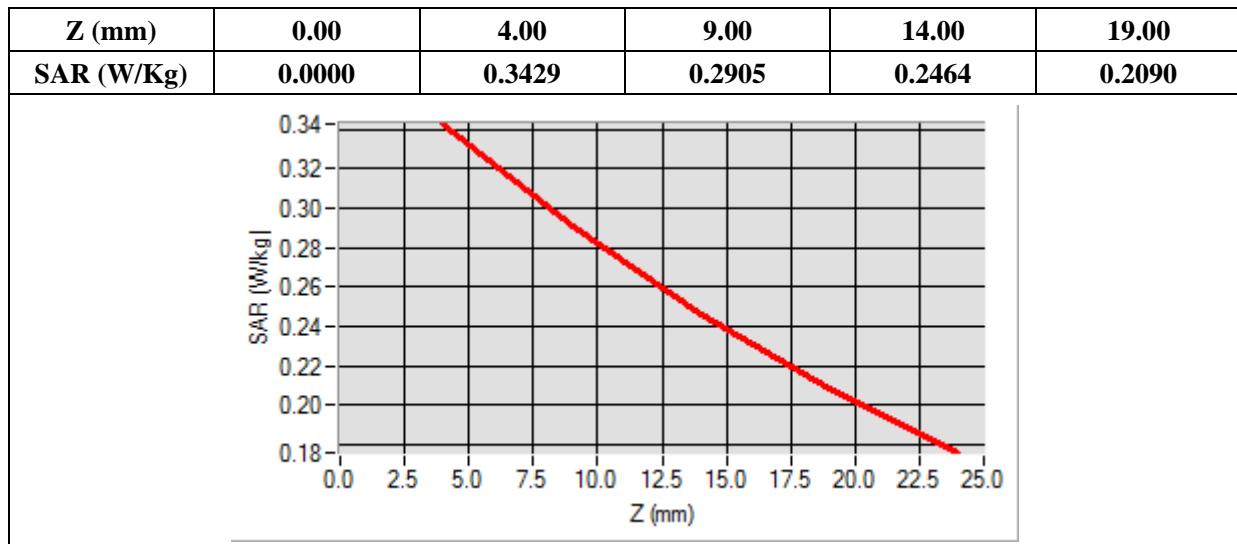
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.342427
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-55.00, Y=-33.00

SAR 10g (W/Kg)	0.262972
SAR 1g (W/Kg)	0.328996



MEASUREMENT 33

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

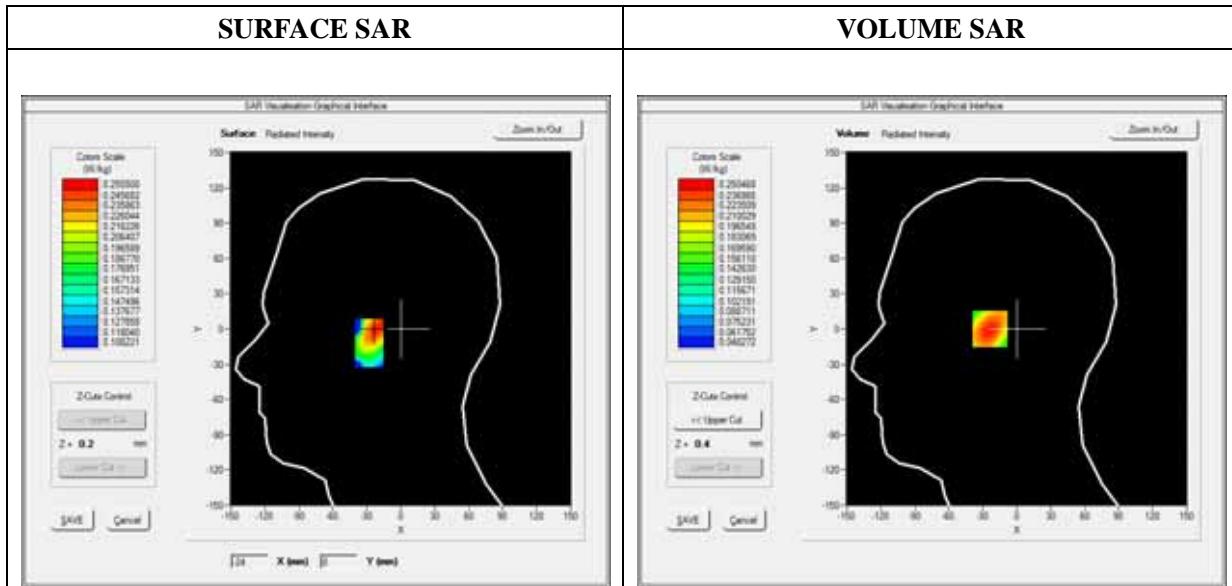
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

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

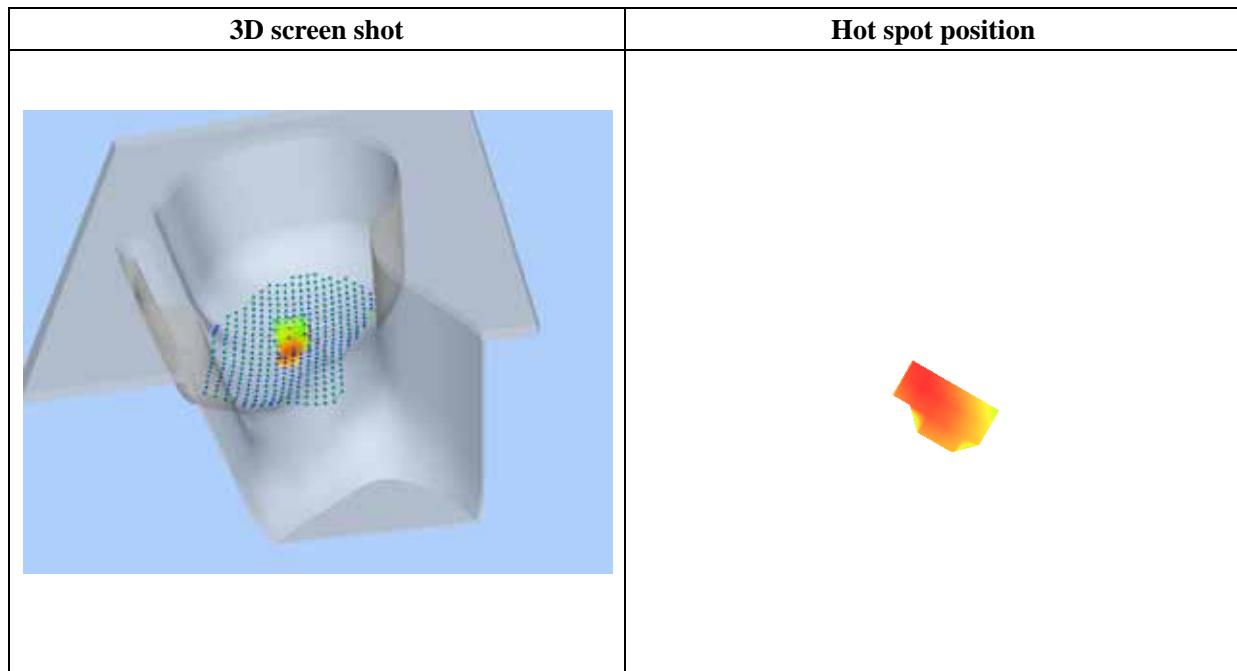
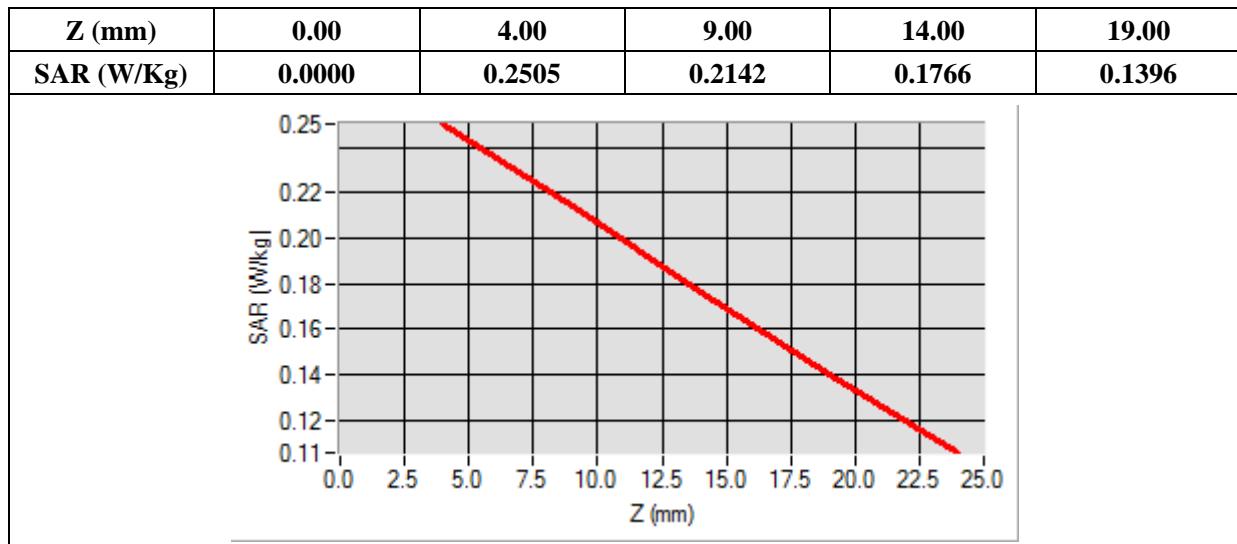
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.452324
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-22.00, Y=0.00

SAR 10g (W/Kg)	0.185325
SAR 1g (W/Kg)	0.239595



MEASUREMENT 34

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

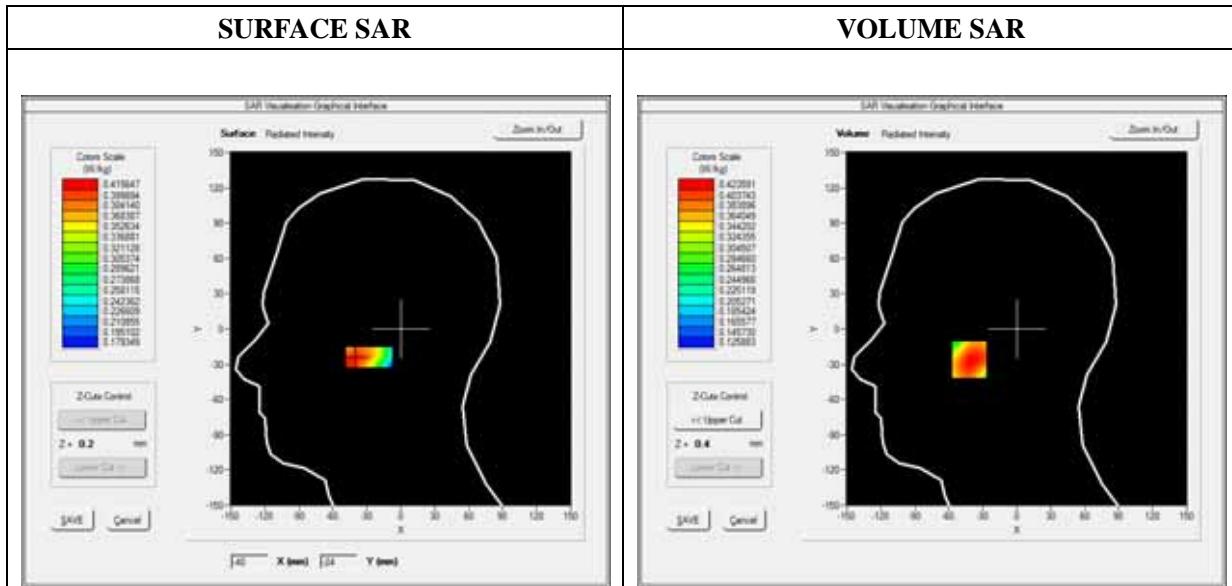
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

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

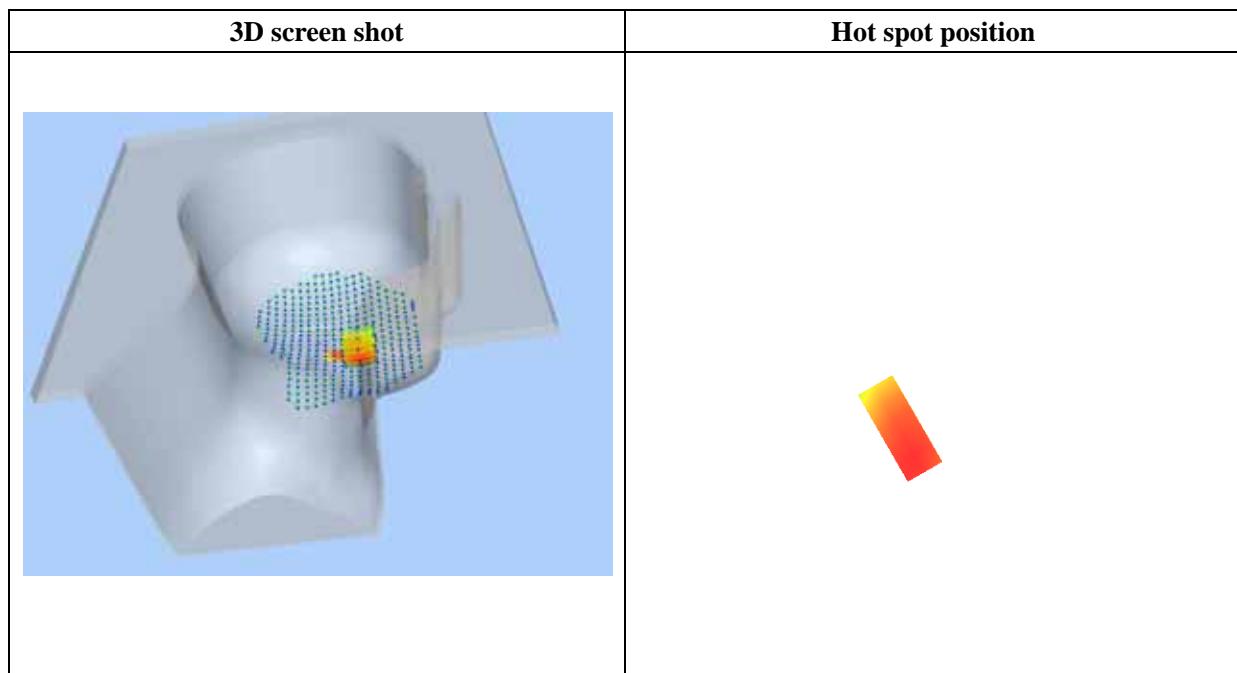
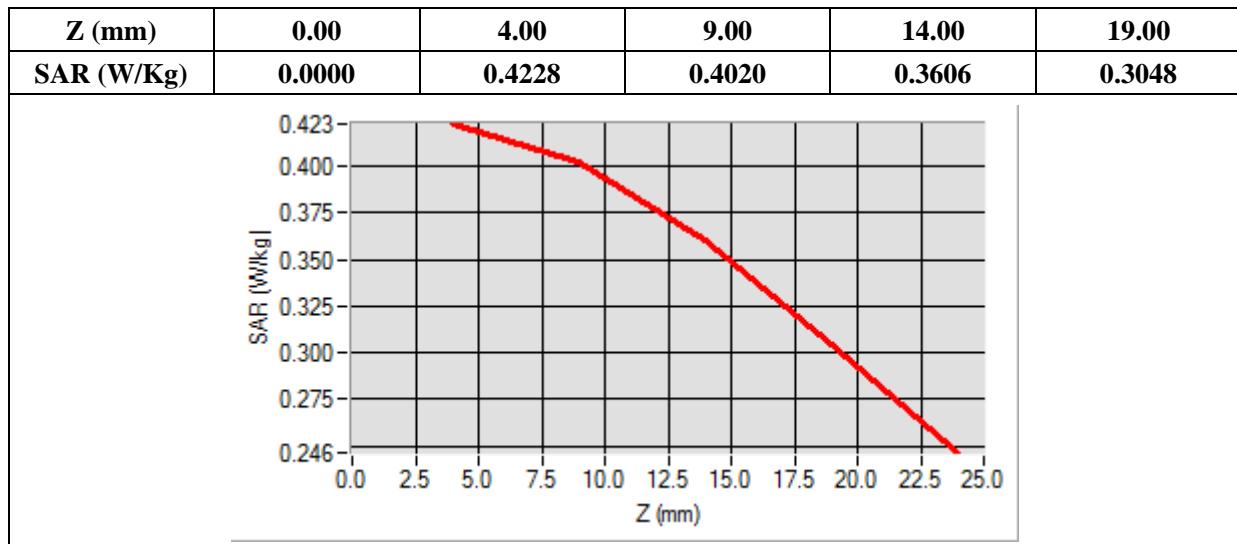
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.734324
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-42.00, Y=-26.00

SAR 10g (W/Kg)	0.350987
SAR 1g (W/Kg)	0.415365



MEASUREMENT 35

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

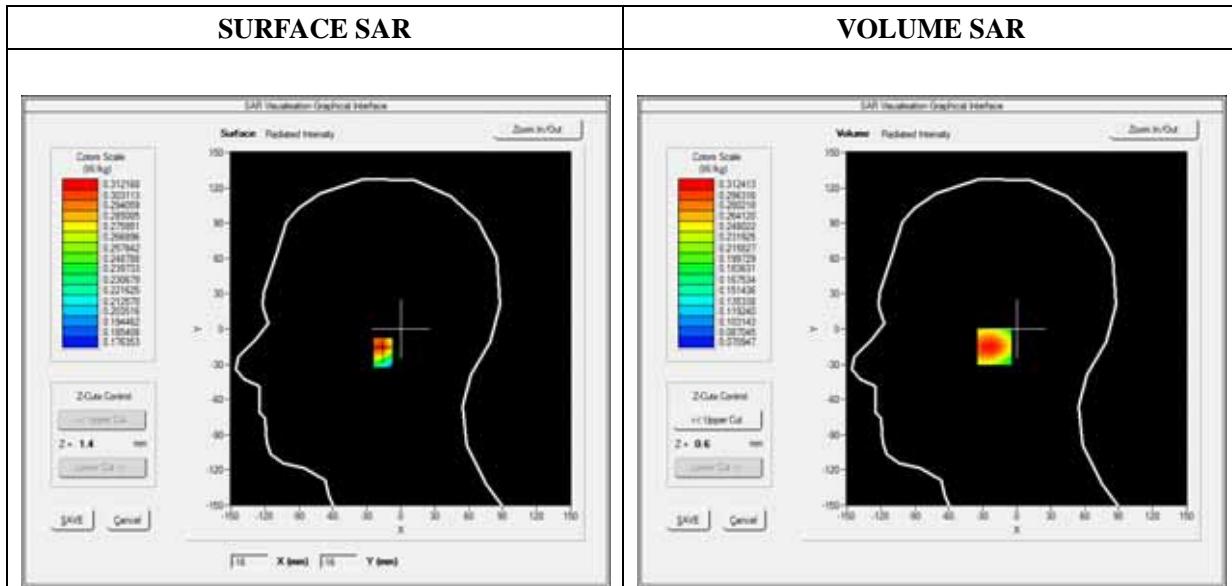
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

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

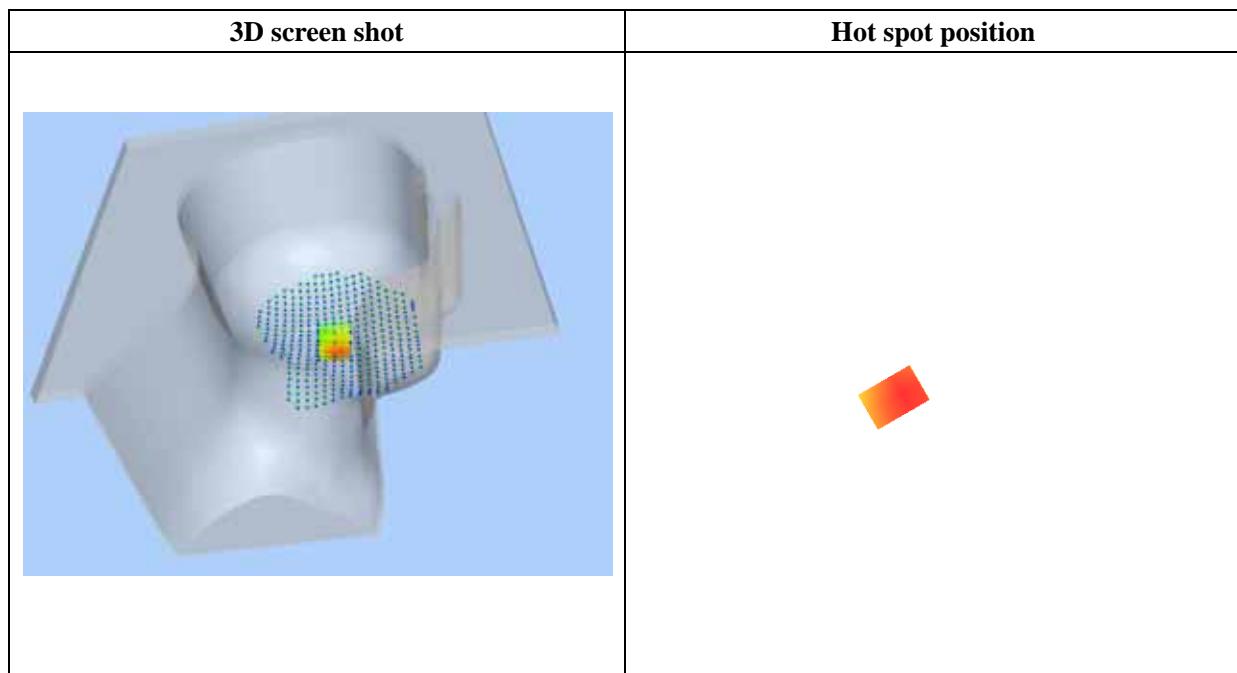
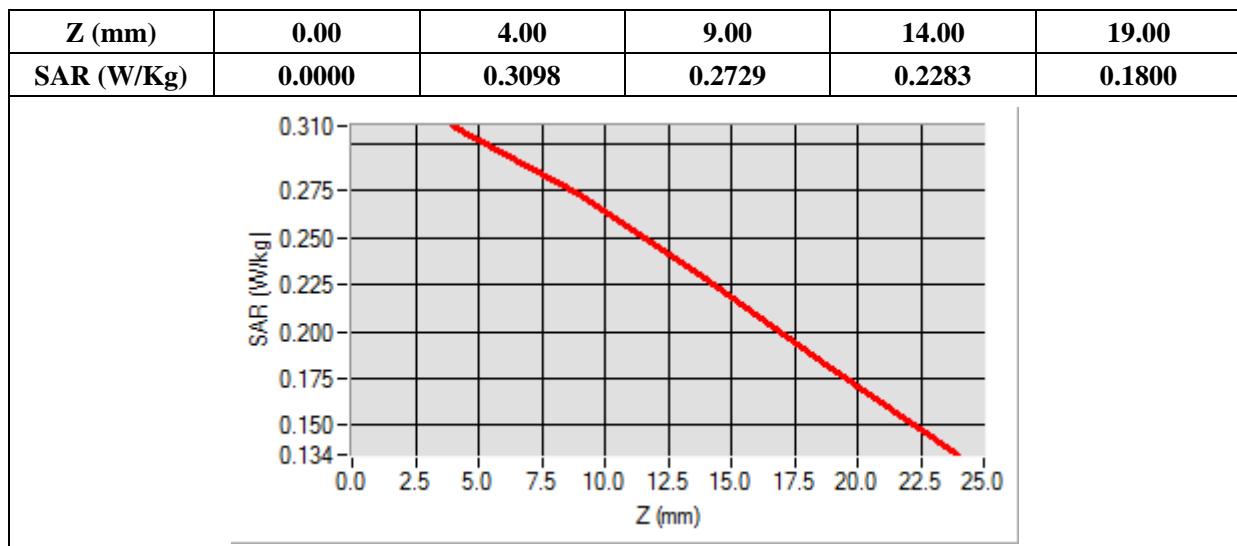
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.456843
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-17.00, Y=-15.00

SAR 10g (W/Kg)	0.238136
SAR 1g (W/Kg)	0.300237



MEASUREMENT 36

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

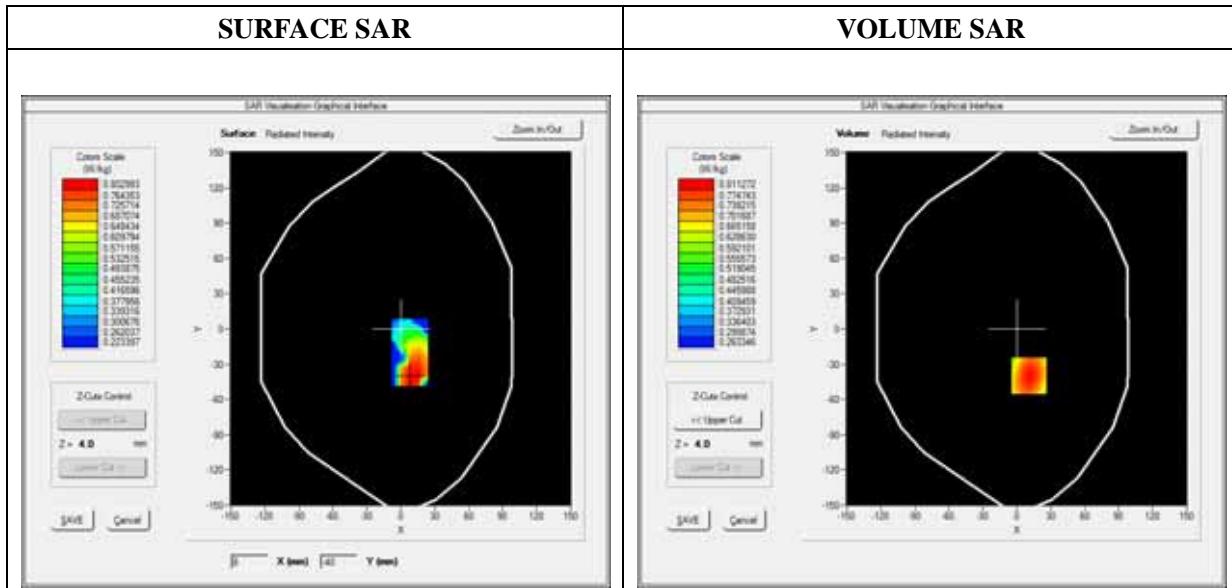
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

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

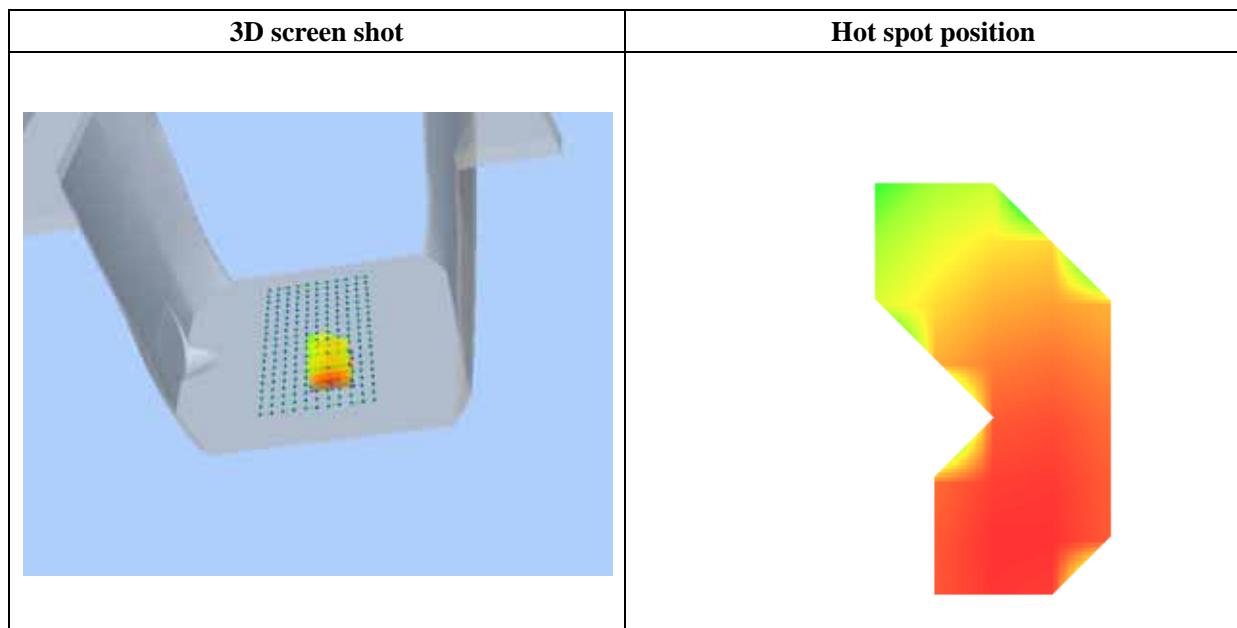
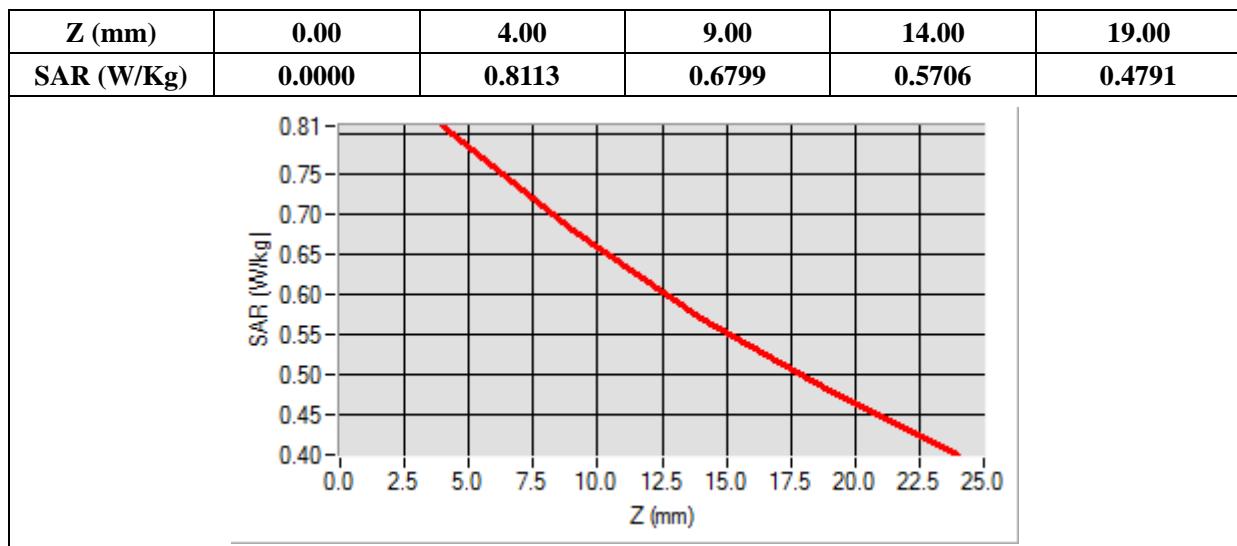
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	2.341234
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=11.00, Y=-40.00

SAR 10g (W/Kg)	0.621457
SAR 1g (W/Kg)	0.783097



MEASUREMENT 37

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

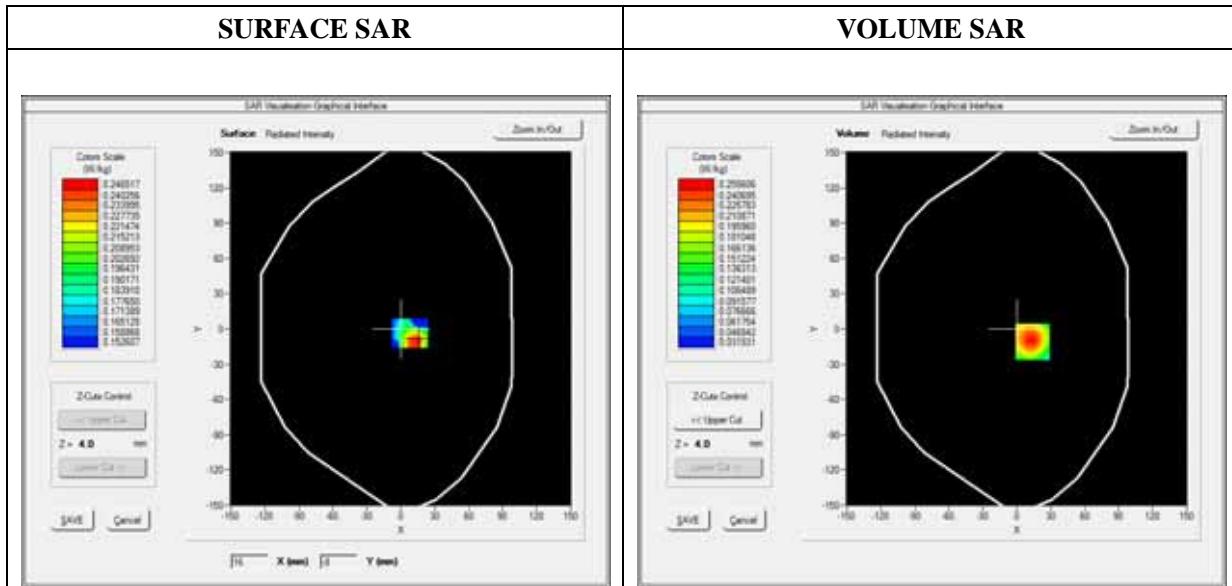
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

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

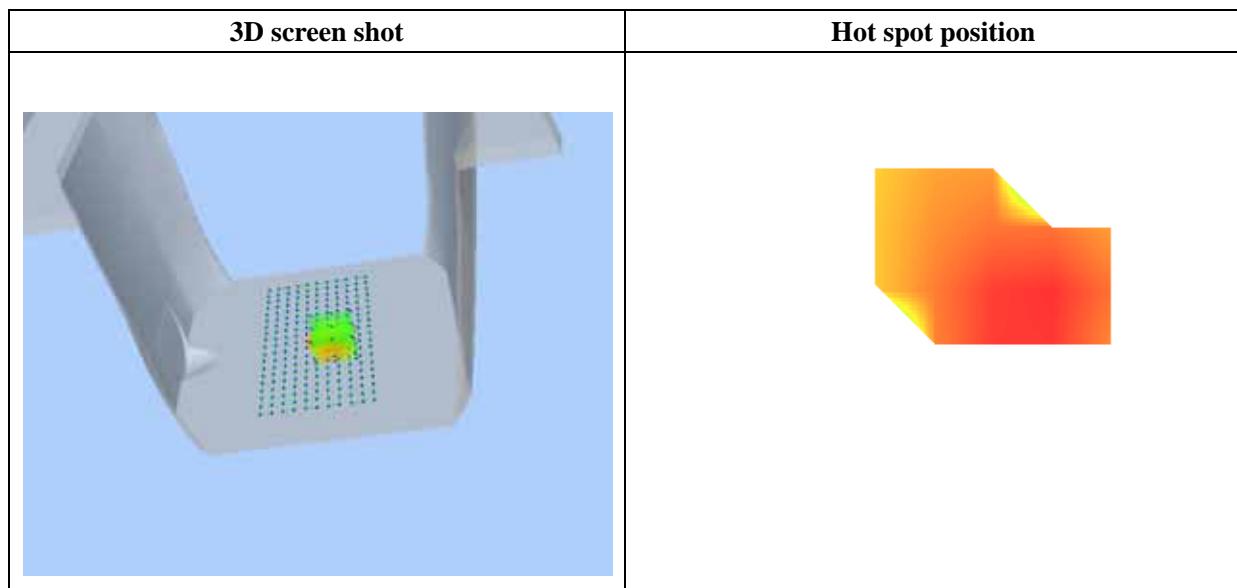
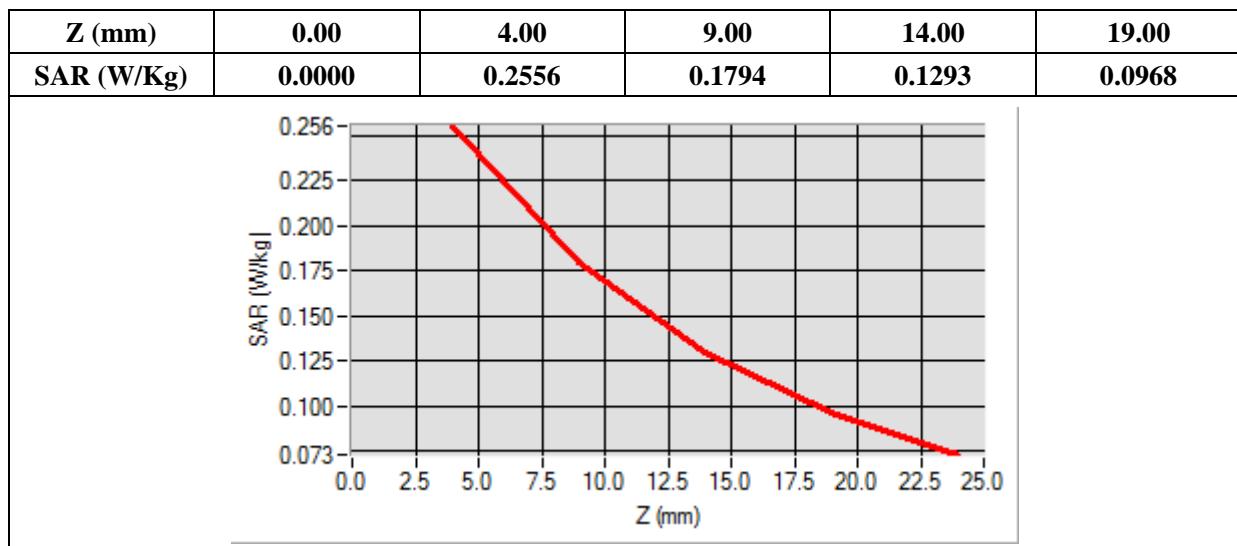
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	2.341221
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=14.00, Y=-11.00

SAR 10g (W/Kg)	0.160770
SAR 1g (W/Kg)	0.240764



MEASUREMENT 38

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

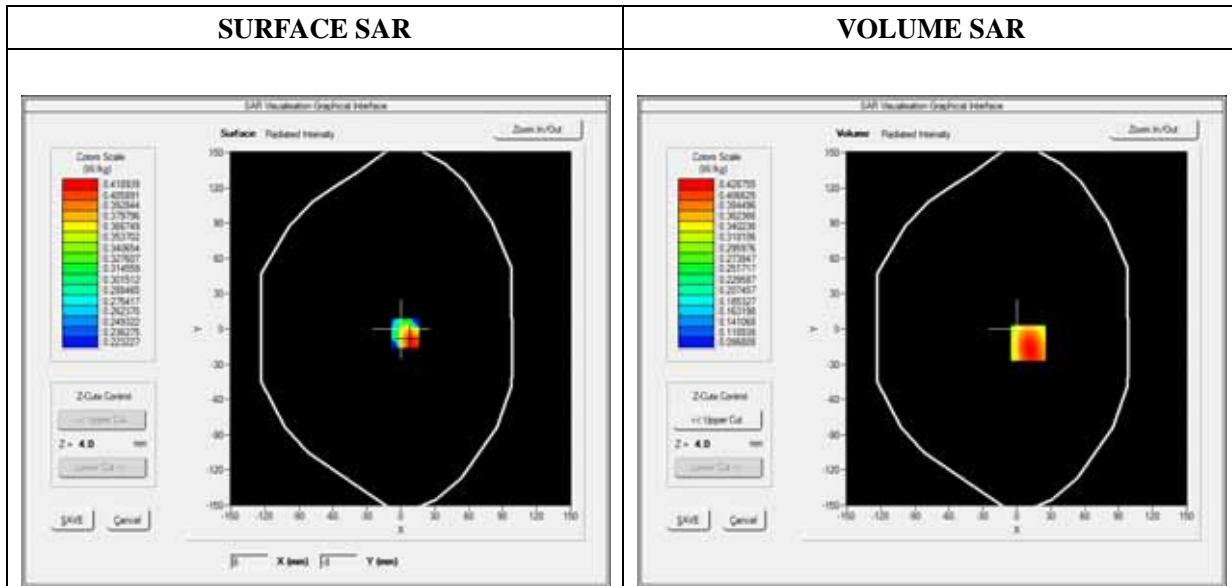
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

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

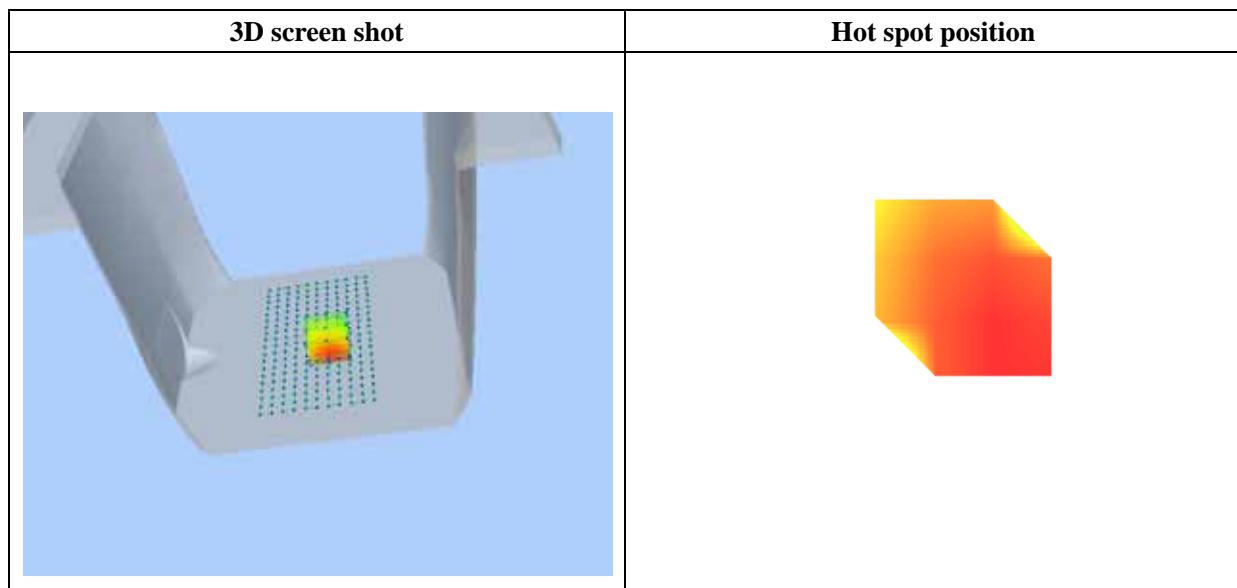
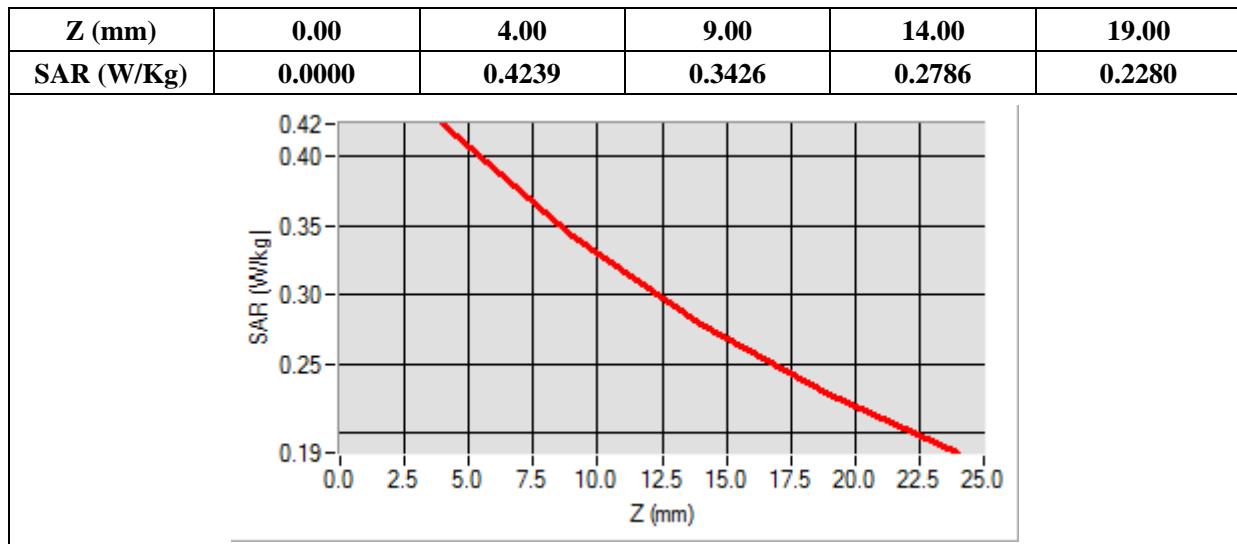
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	1.452233
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=10.00, Y=-12.00

SAR 10g (W/Kg)	0.321236
SAR 1g (W/Kg)	0.415069



MEASUREMENT 39

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

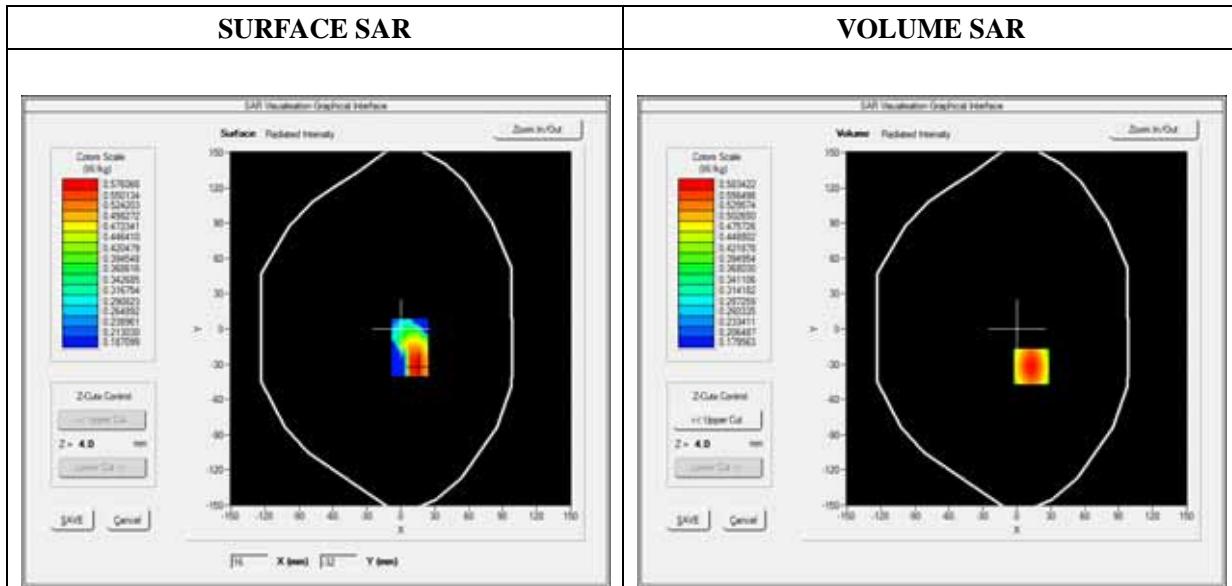
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

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

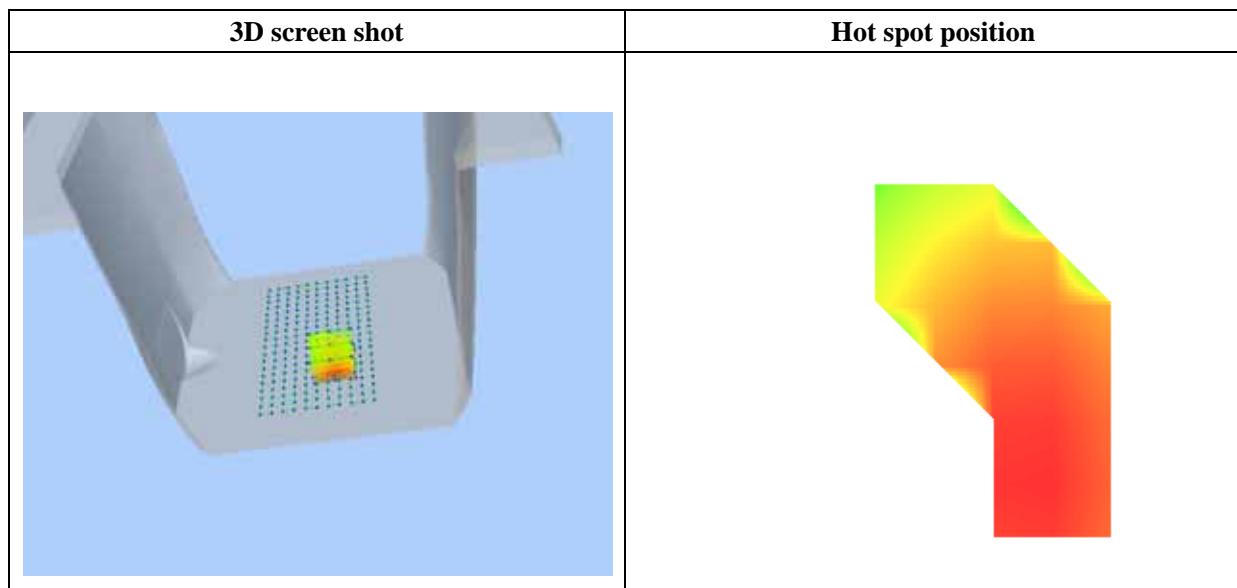
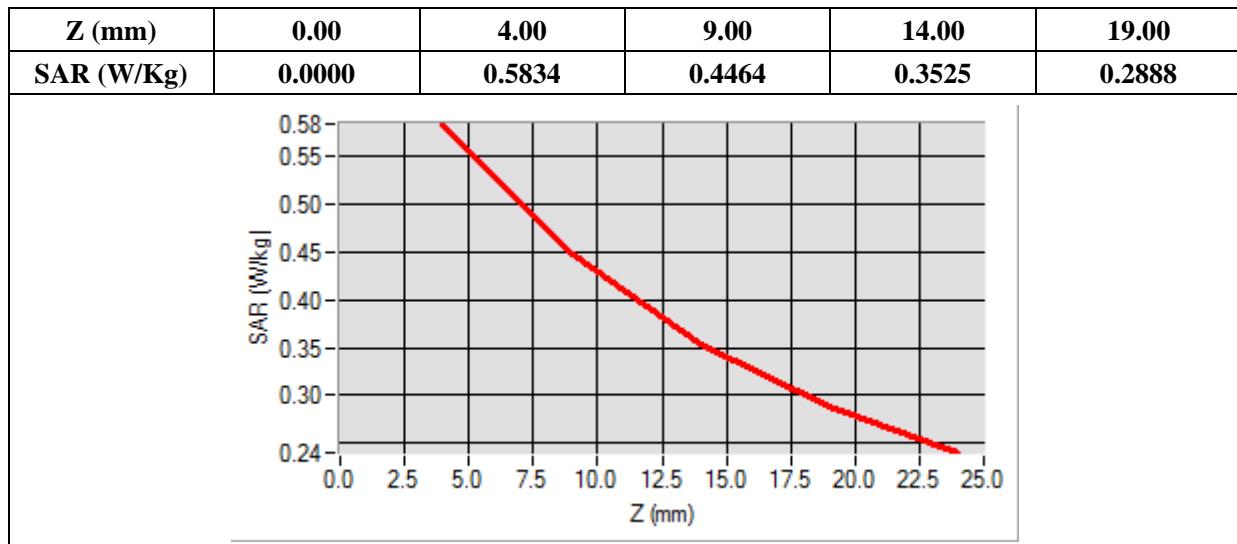
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	1.634634
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=13.00, Y=-32.00

SAR 10g (W/Kg)	0.414733
SAR 1g (W/Kg)	0.557768



MEASUREMENT 40

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

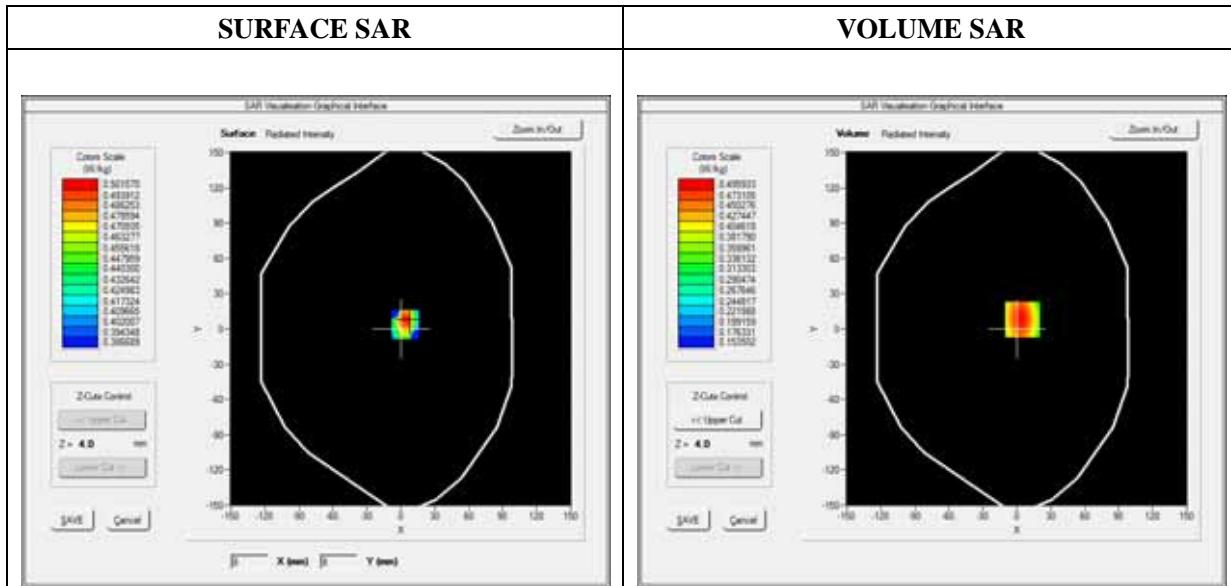
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

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

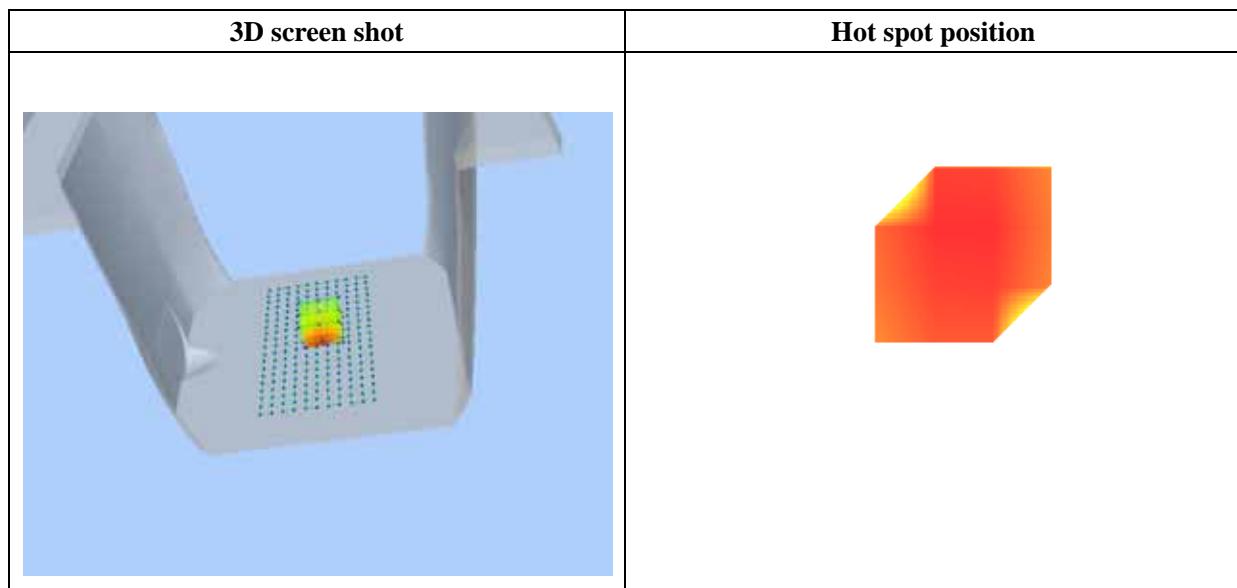
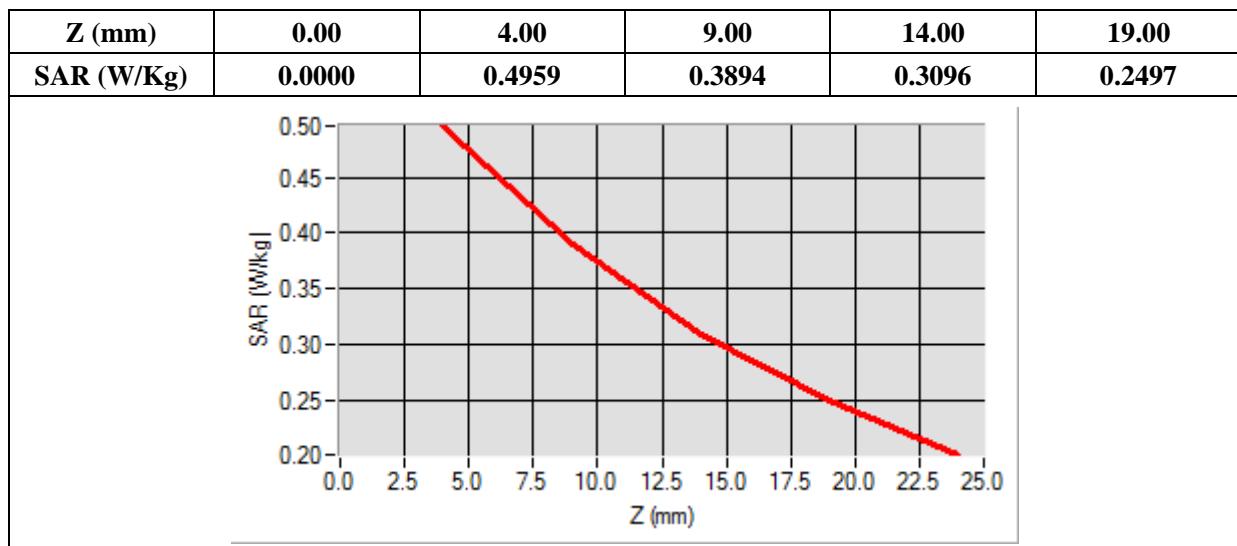
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	2.732134
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=5.00, Y=8.00

SAR 10g (W/Kg)	0.355175
SAR 1g (W/Kg)	0.474849



MEASUREMENT 41

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

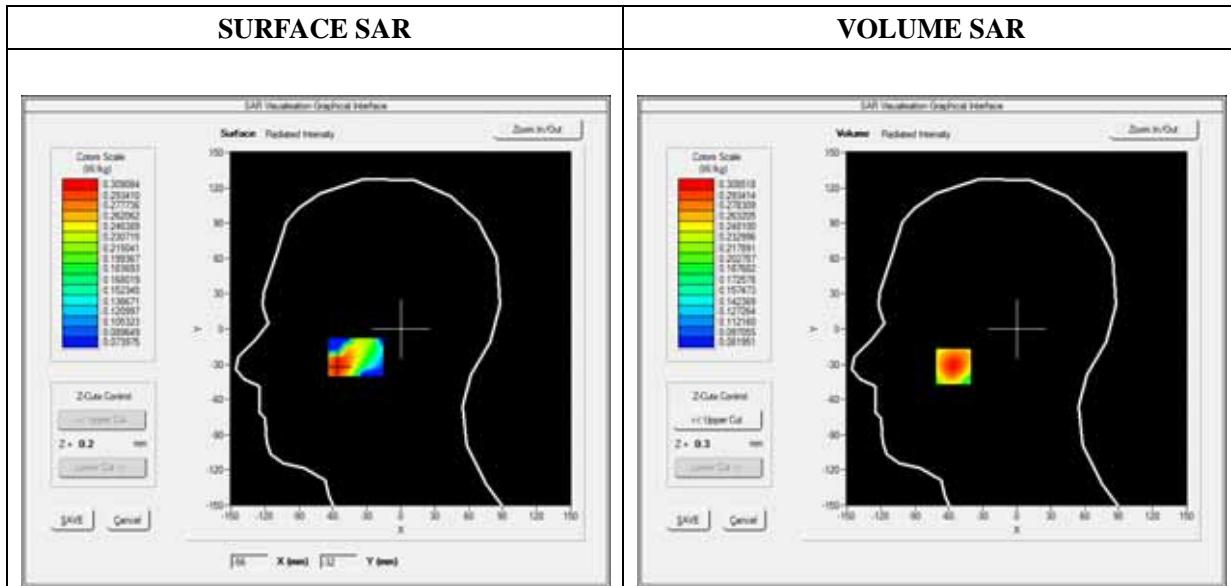
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	LTE Band 5_RMC
Channels	QPSK, 1.4MHz, Low
Signal	Duty Cycle 1:1

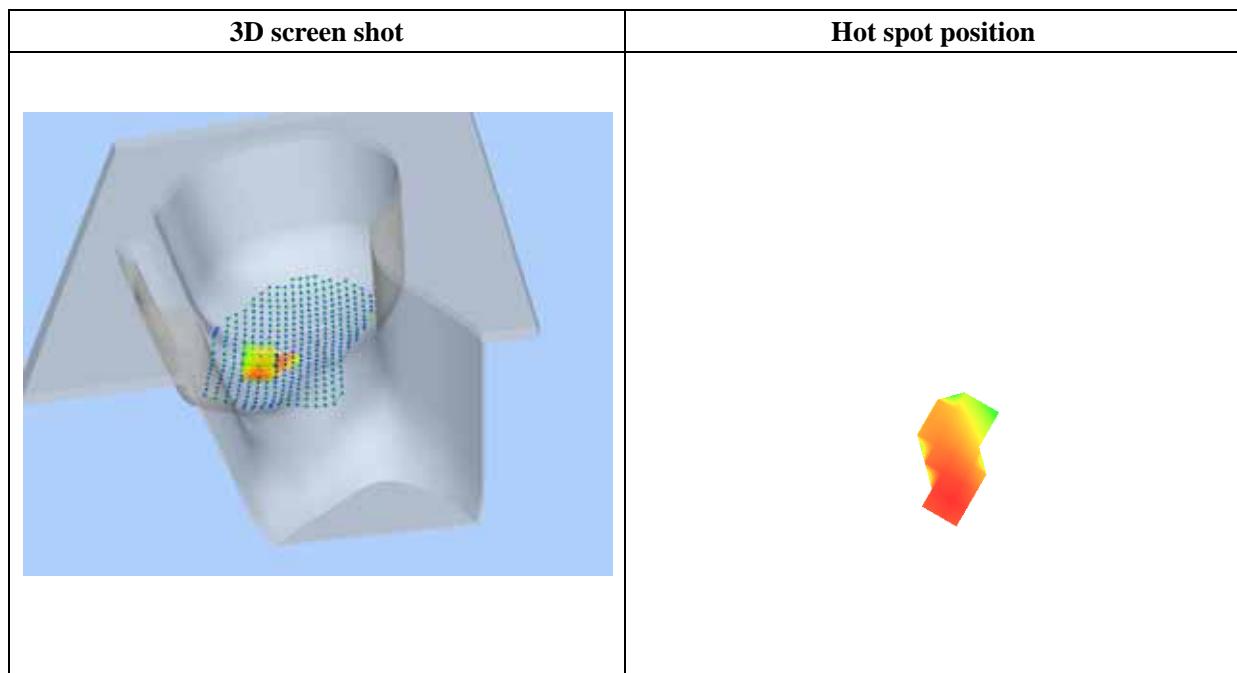
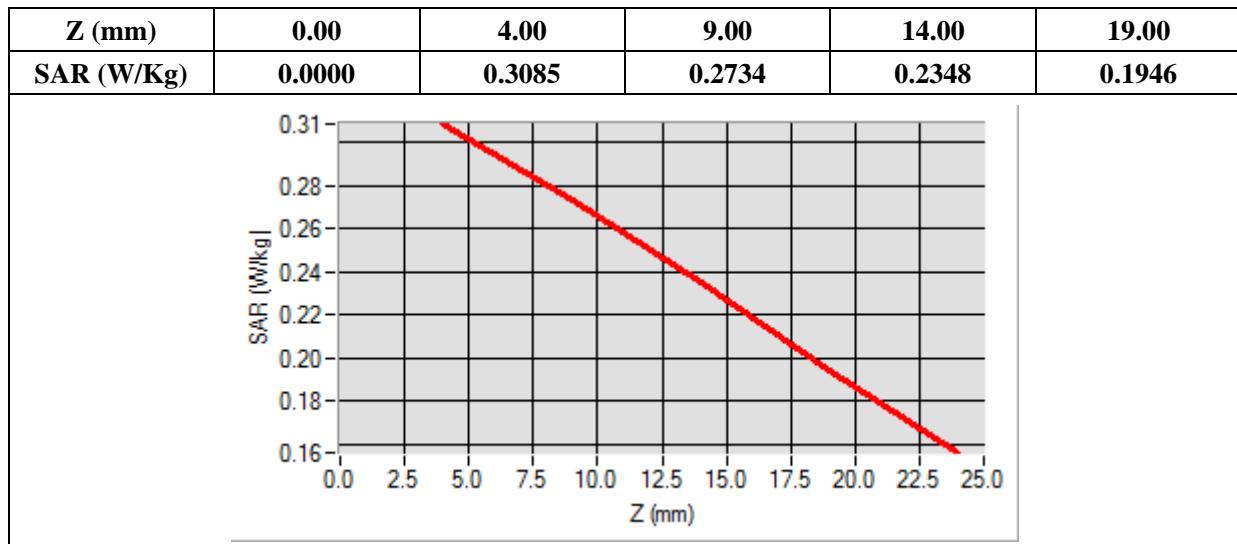
B. SAR Measurement Results

Frequency (MHz)	824.700000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.743564
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.239560
SAR 1g (W/Kg)	0.297544



MEASUREMENT 42

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

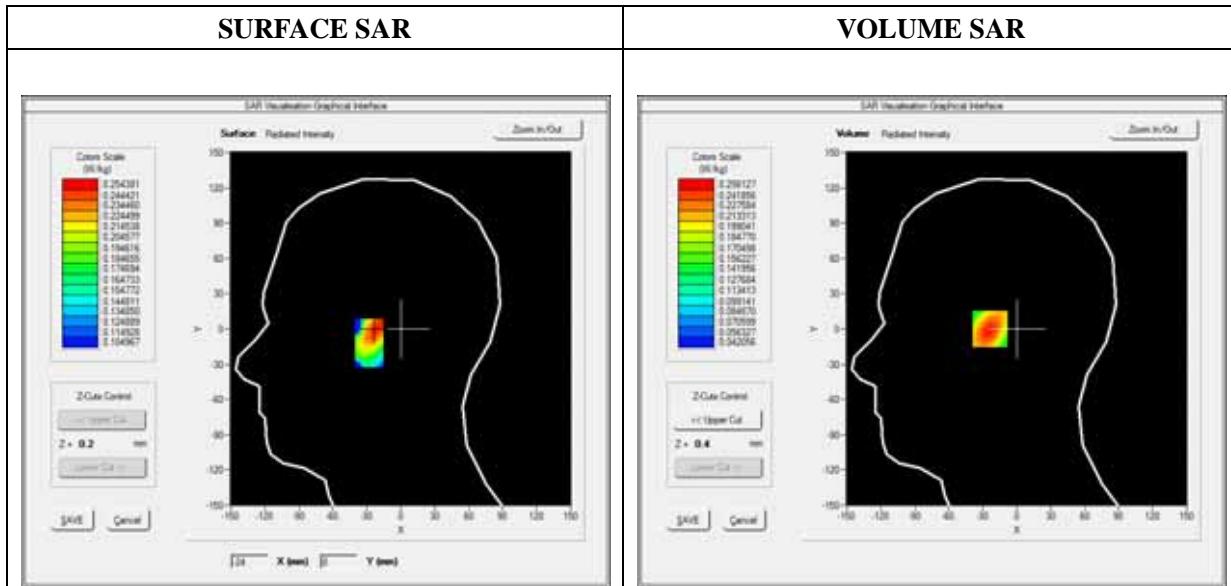
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	LTE Band 5_RMC
Channels	QPSK, 1.4MHz, Low
Signal	Duty Cycle 1:1

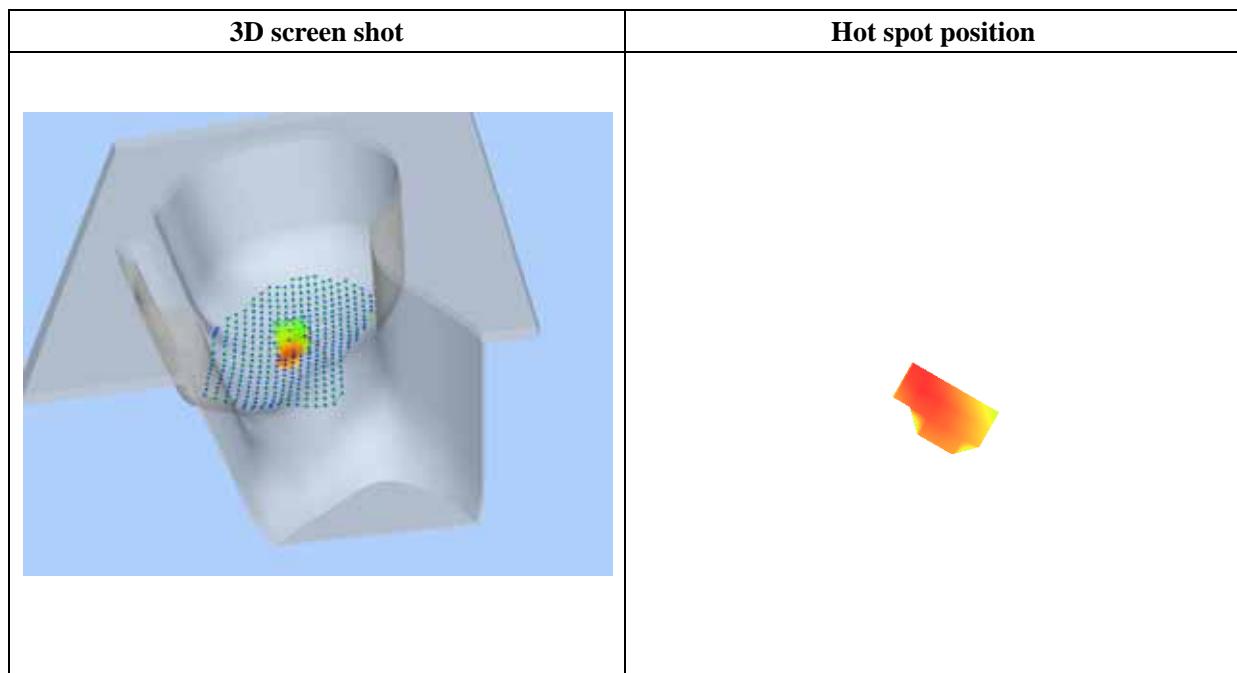
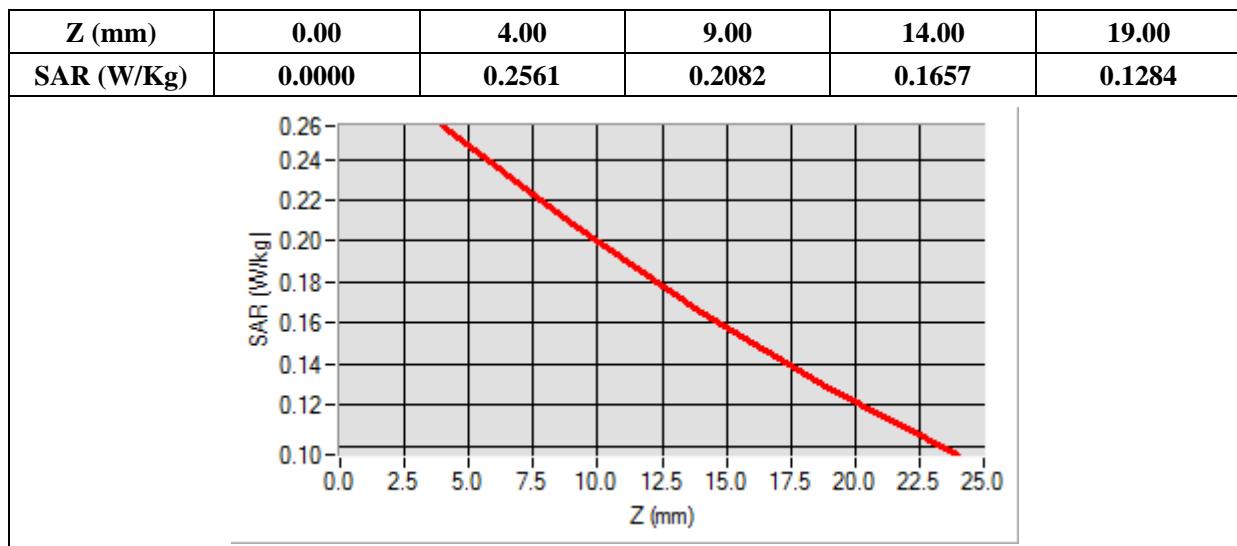
B. SAR Measurement Results

Frequency (MHz)	824.700000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.034524
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-22.00, Y=0.00

SAR 10g (W/Kg)	0.181491
SAR 1g (W/Kg)	0.243234



MEASUREMENT 43

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

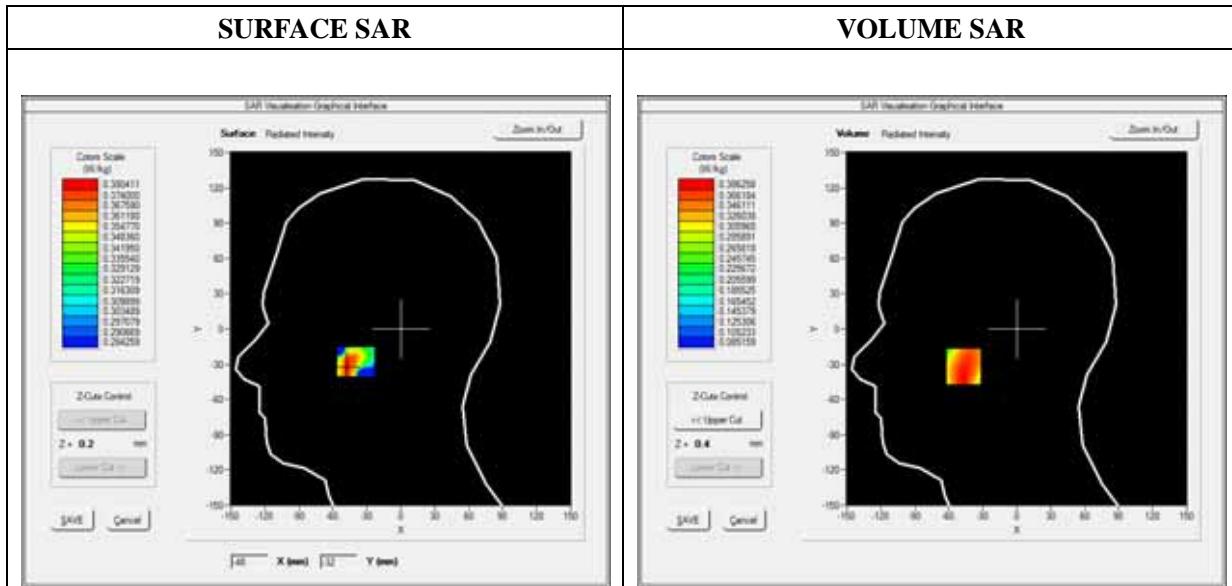
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	LTE Band 5_RMC
Channels	QPSK, 1.4MHz, Low
Signal	Duty Cycle 1:1

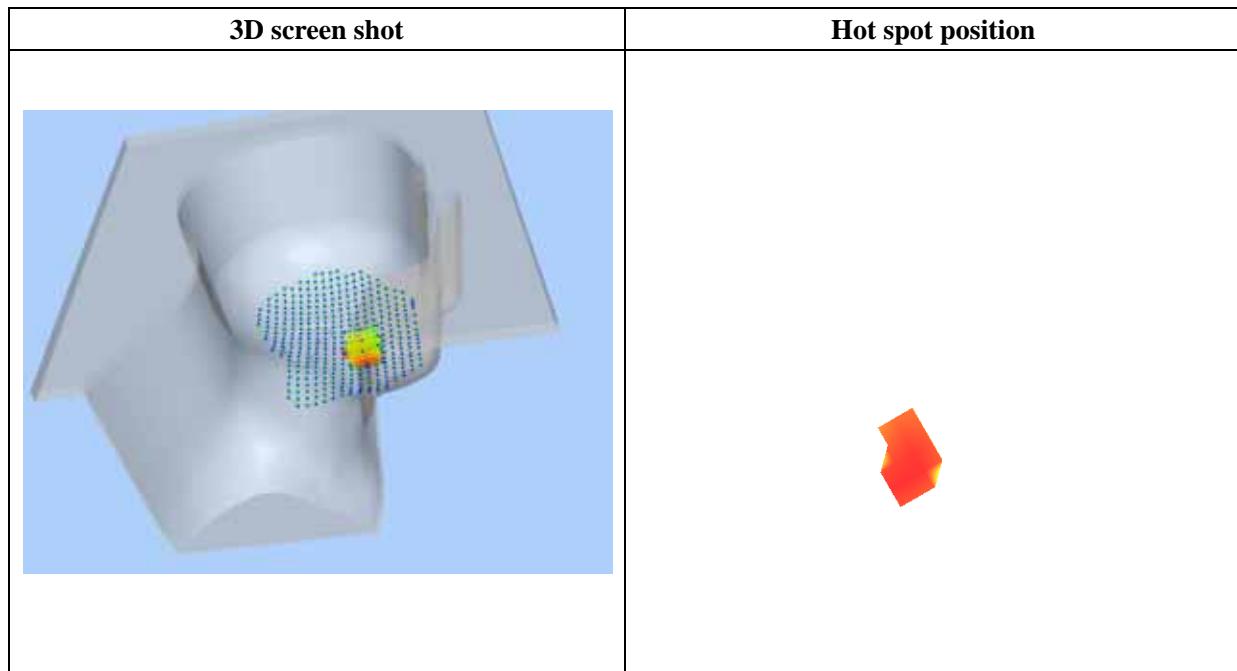
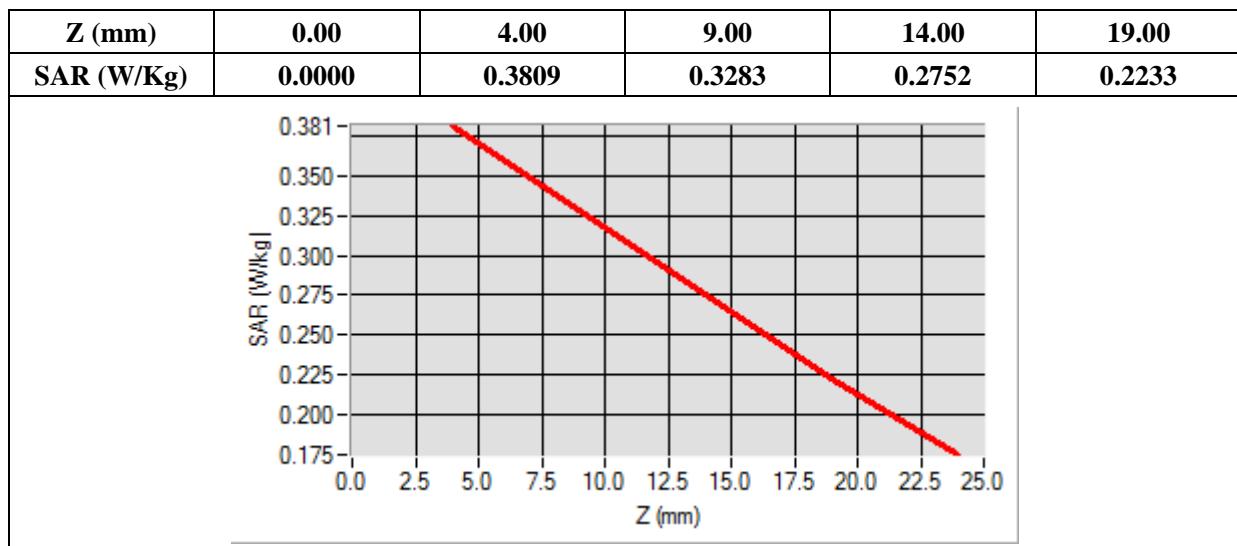
B. SAR Measurement Results

Frequency (MHz)	824.700000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	2.325563
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-47.00, Y=-32.00

SAR 10g (W/Kg)	0.302165
SAR 1g (W/Kg)	0.379076



MEASUREMENT 44

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

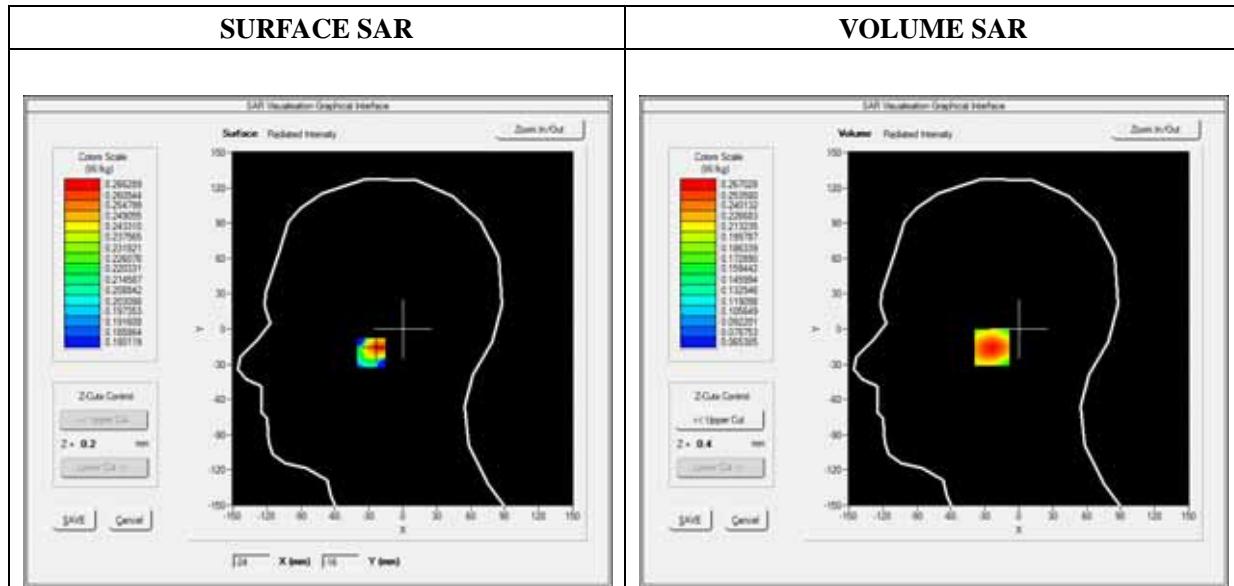
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	LTE Band 5_RMC
Channels	QPSK, 1.4MHz, Low
Signal	Duty Cycle 1:1

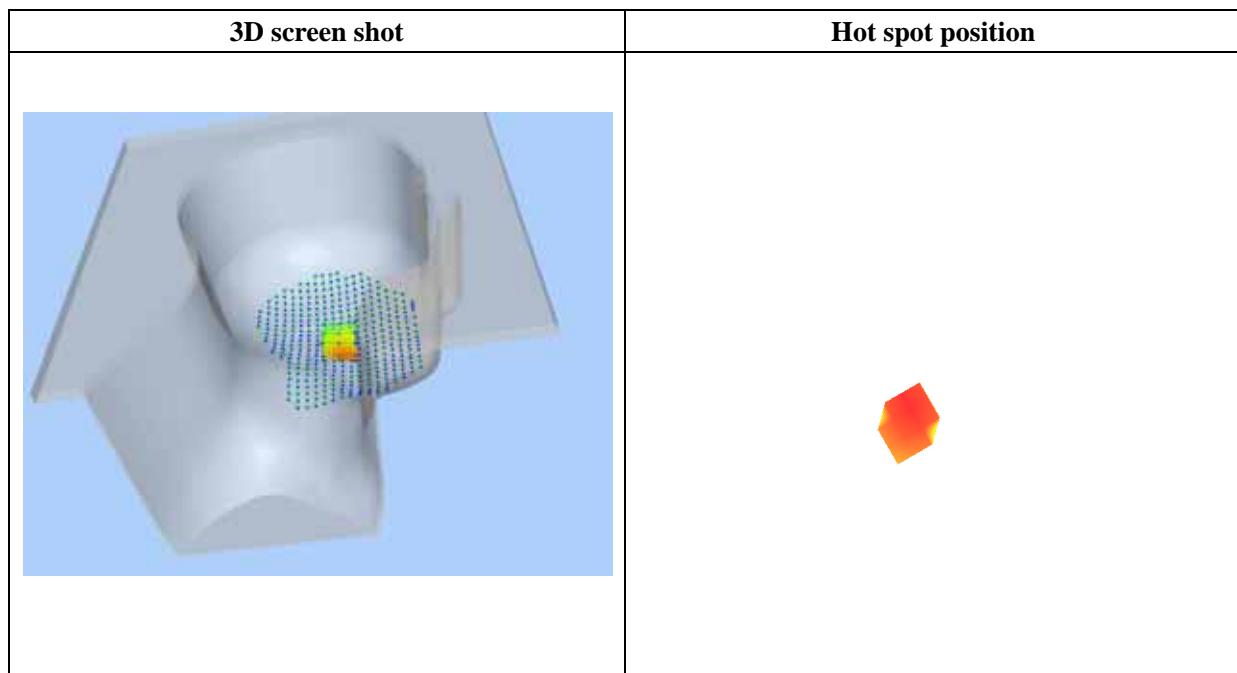
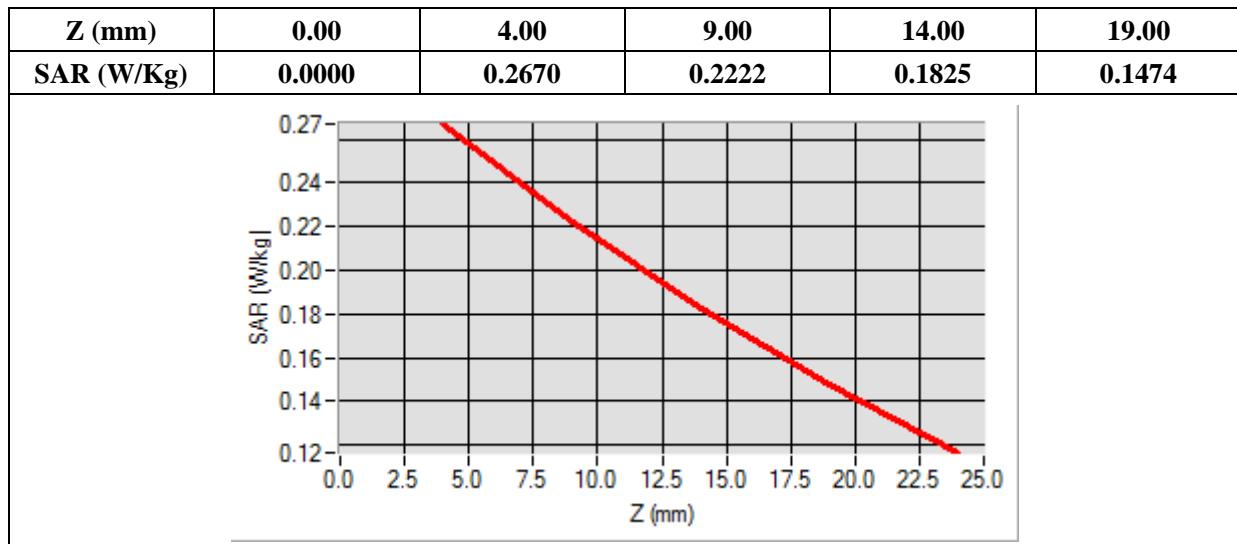
B. SAR Measurement Results

Frequency (MHz)	824.700000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	1.734534
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-21.00, Y=-16.00

SAR 10g (W/Kg)	0.196764
SAR 1g (W/Kg)	0.255369



MEASUREMENT 45

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

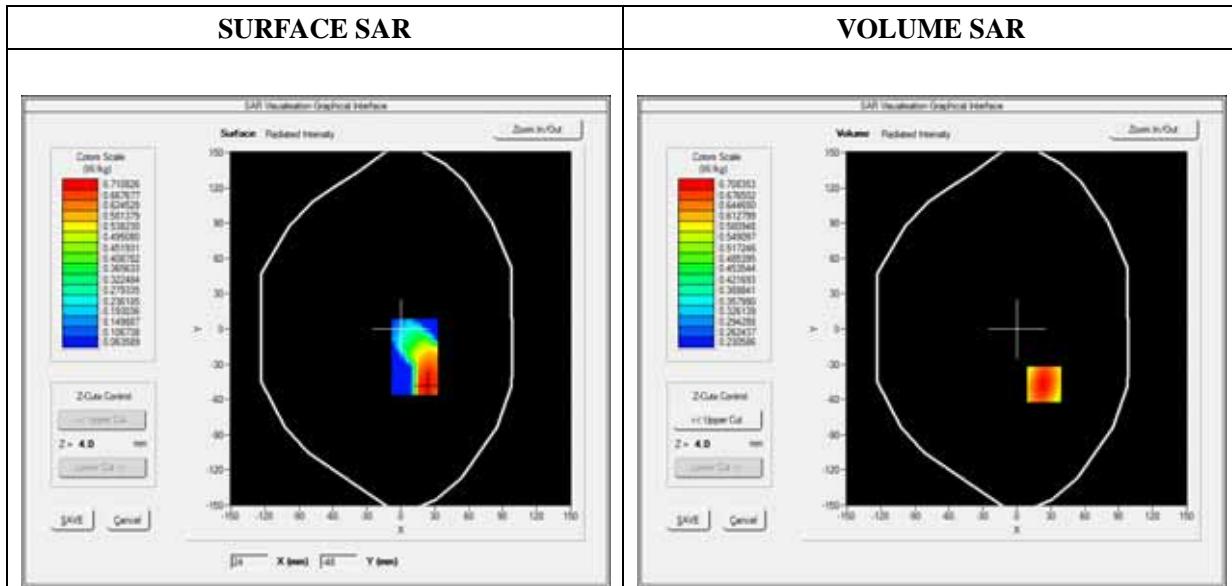
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 5_RMC
Channels	QPSK, 1.4MHz, Low
Signal	Duty Cycle 1:1

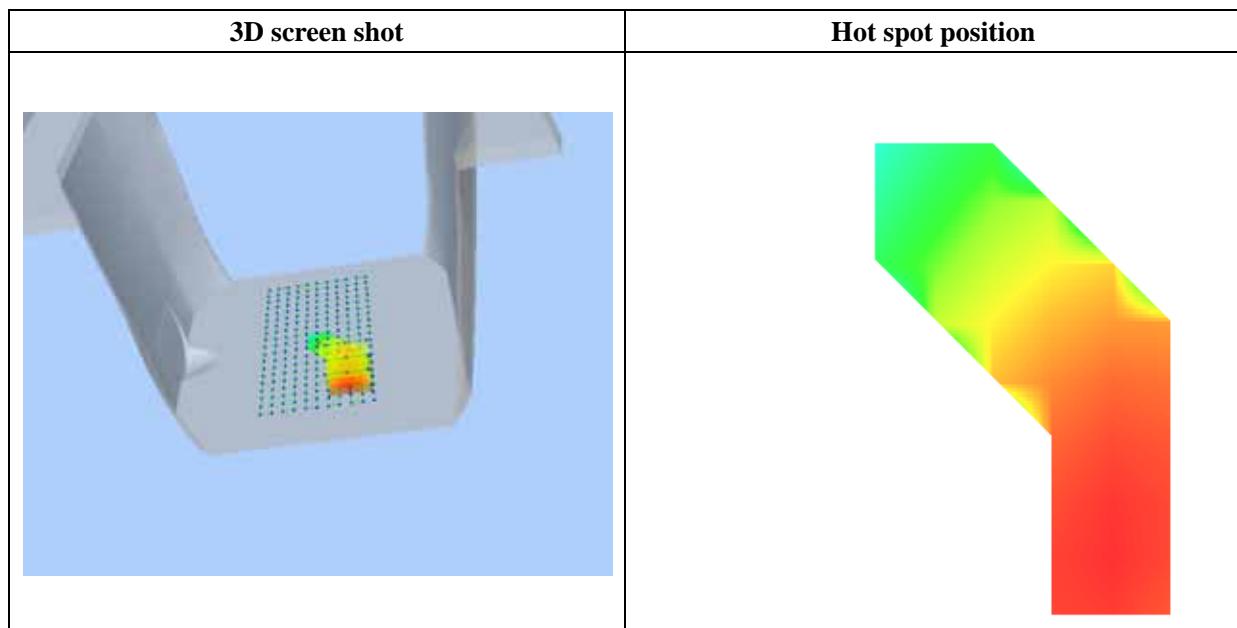
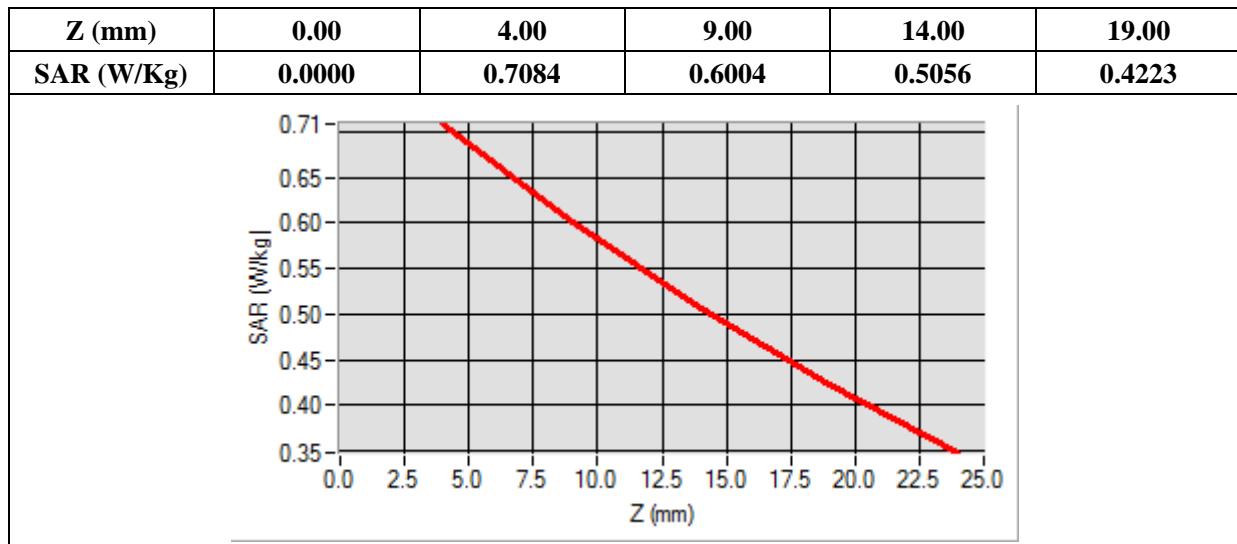
B. SAR Measurement Results

Frequency (MHz)	824.700000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	1.523573
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=24.00, Y=-47.00

SAR 10g (W/Kg)	0.589127
SAR 1g (W/Kg)	0.737546



MEASUREMENT 46

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

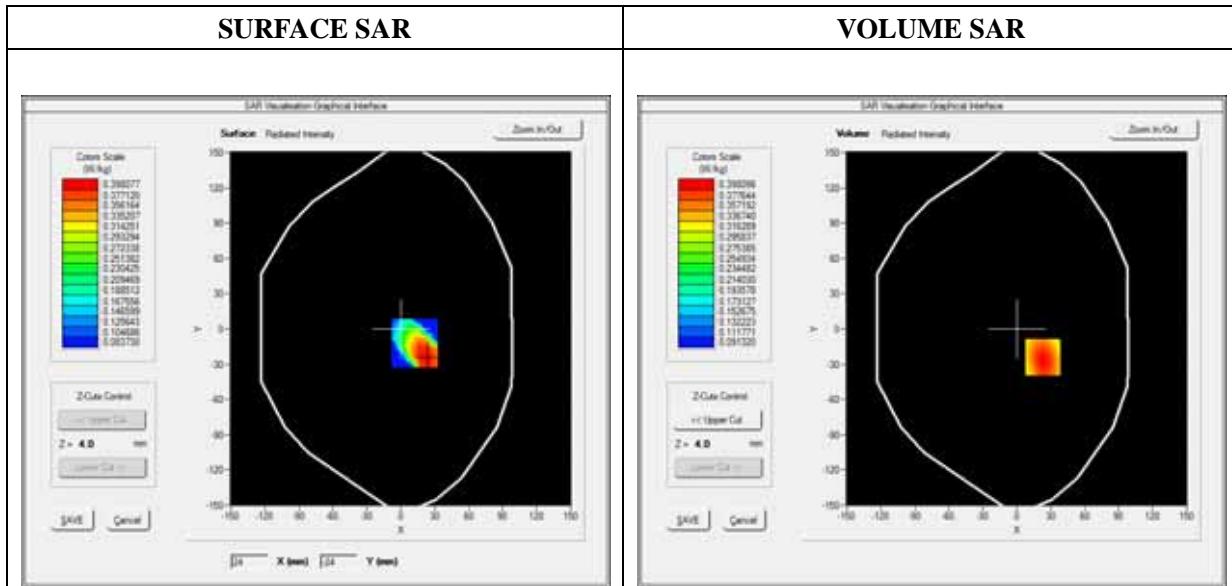
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 5_RMC
Channels	QPSK, 1.4MHz, Low
Signal	Duty Cycle 1:1

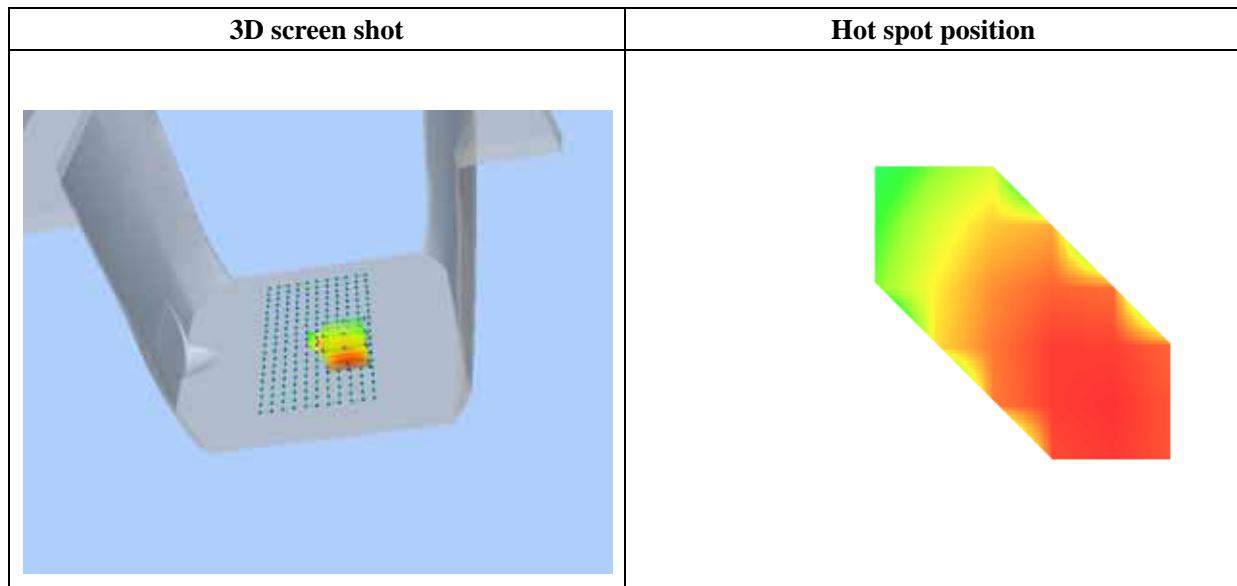
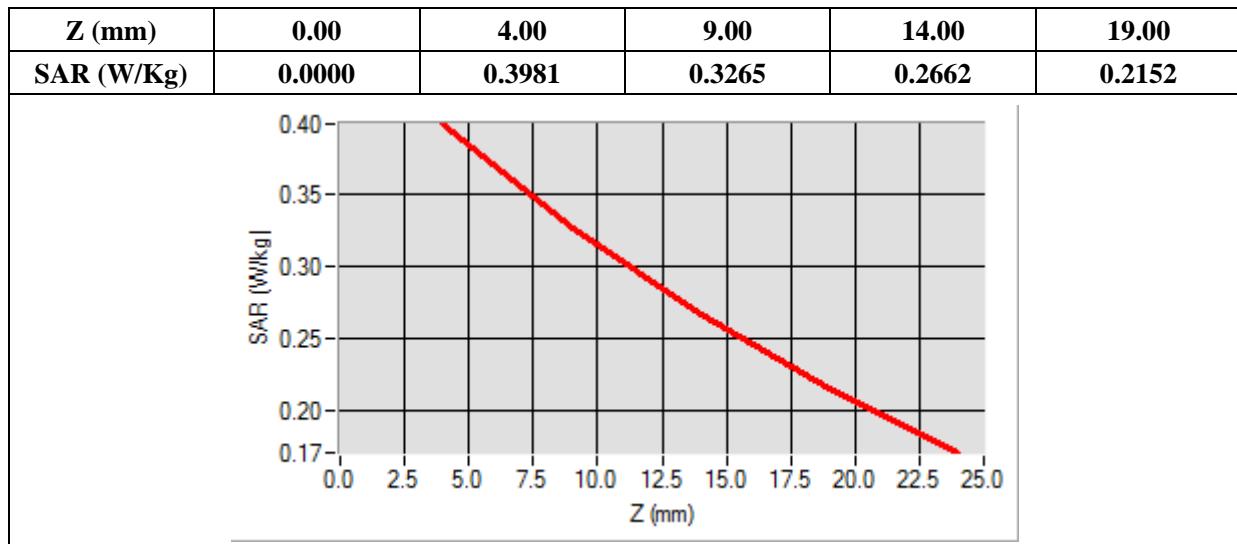
B. SAR Measurement Results

Frequency (MHz)	824.700000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.834515
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=23.00, Y=-24.00

SAR 10g (W/Kg)	0.323881
SAR 1g (W/Kg)	0.415041



MEASUREMENT 47

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

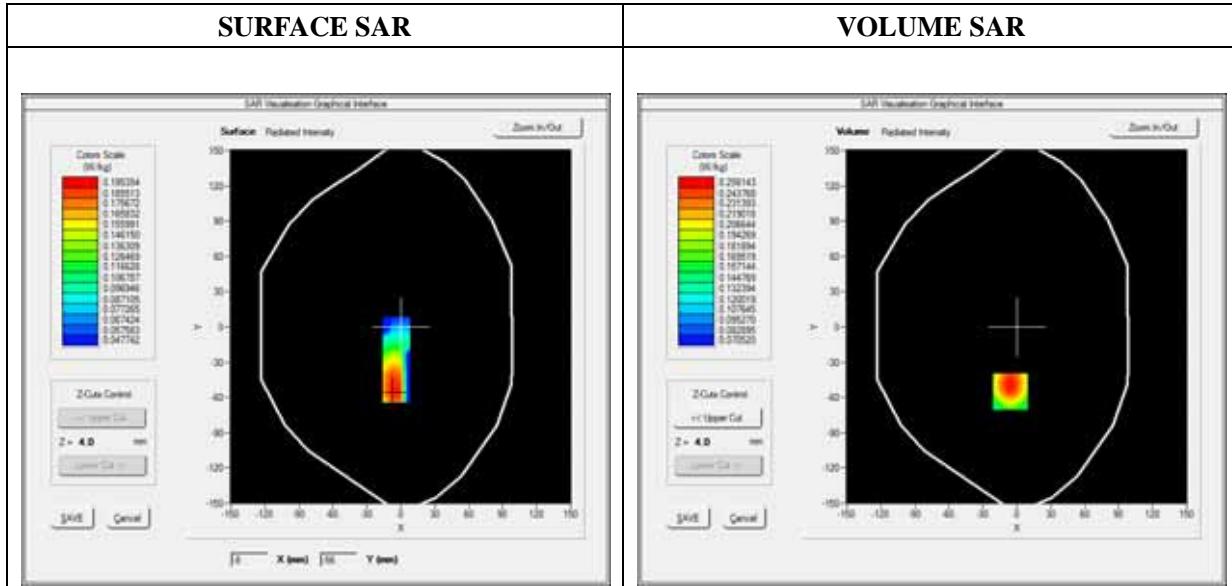
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Bottom
Band	LTE Band 5_RMC
Channels	QPSK, 1.4MHz, Low
Signal	Duty Cycle 1:1

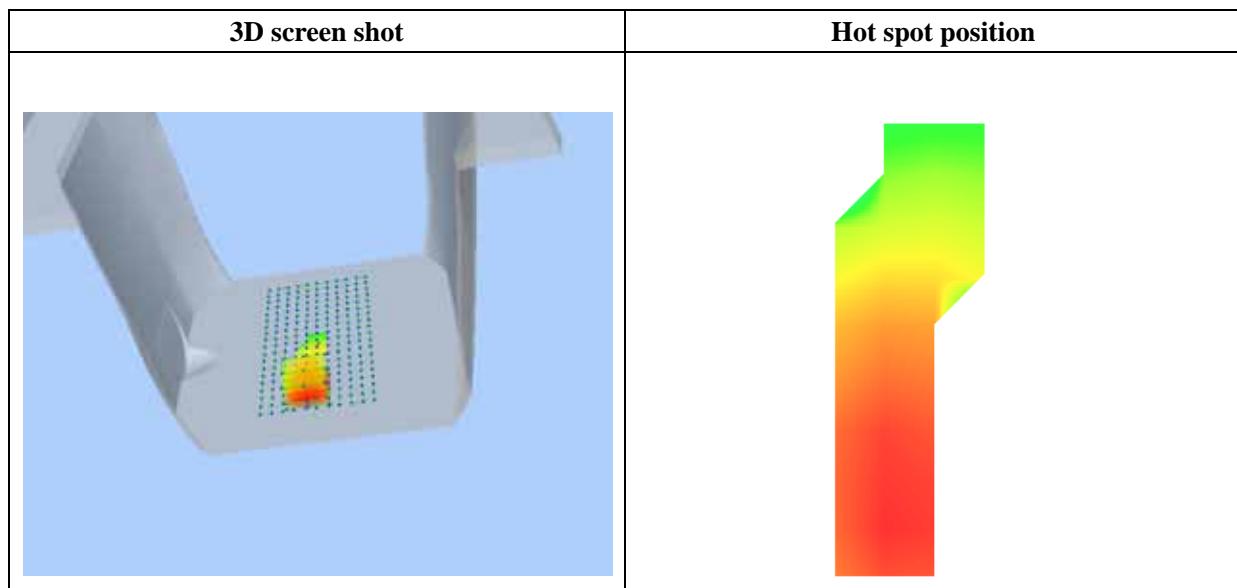
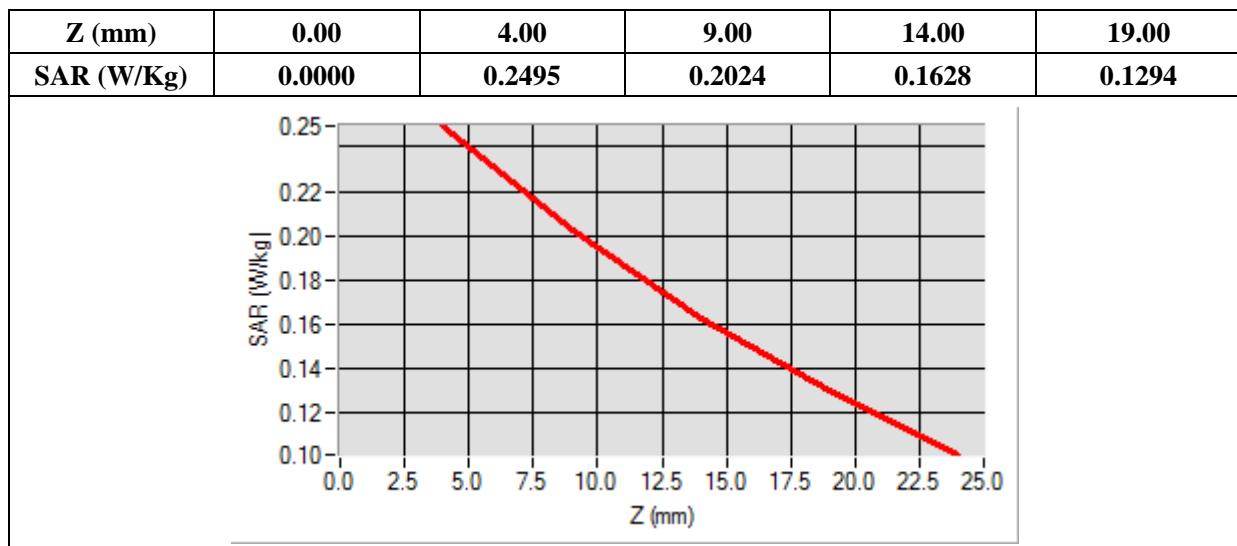
B. SAR Measurement Results

Frequency (MHz)	824.700000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	1.482632
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-6.00, Y=-55.00

SAR 10g (W/Kg)	0.198257
SAR 1g (W/Kg)	0.263771



MEASUREMENT 48

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

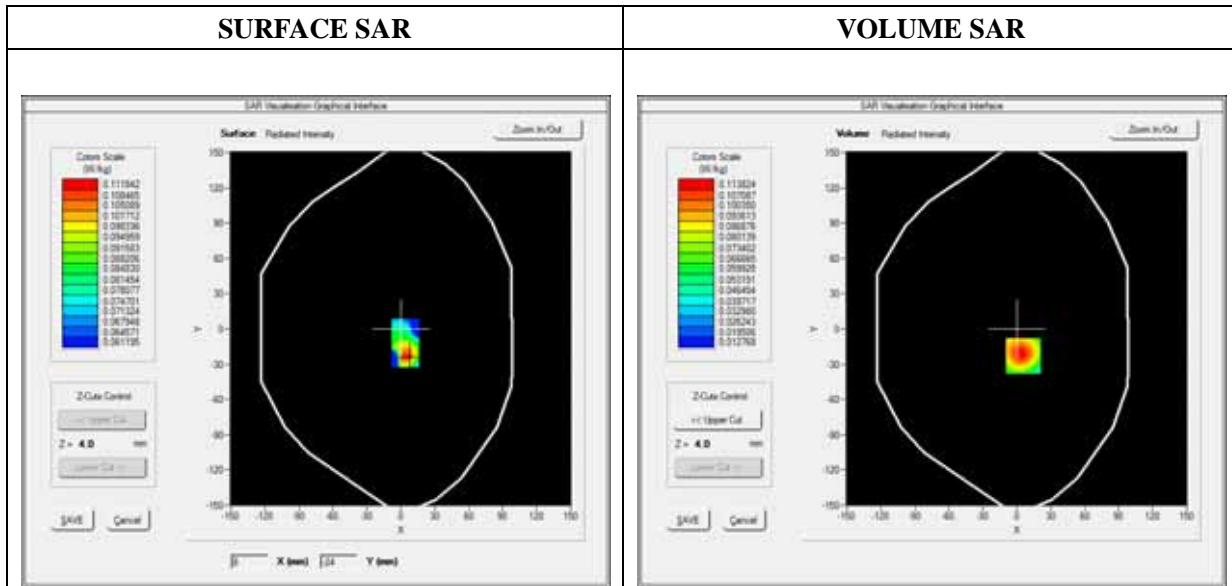
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Right side
Band	LTE Band 5_RMC
Channels	QPSK, 1.4MHz, Low
Signal	Duty Cycle 1:1

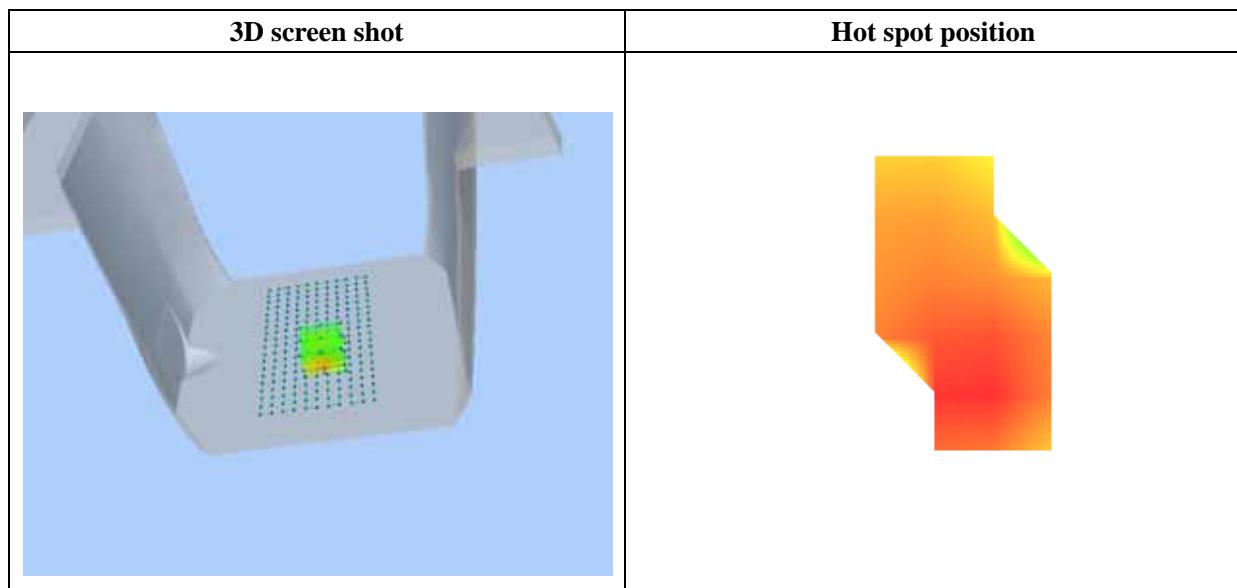
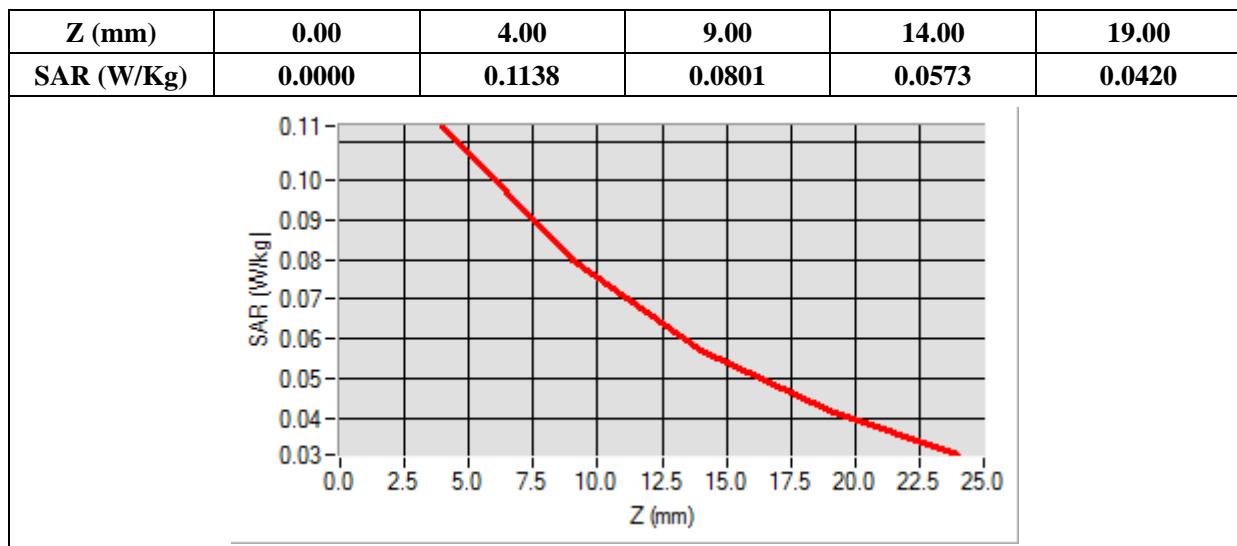
B. SAR Measurement Results

Frequency (MHz)	824.700000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	1.443922
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=6.00, Y=-23.00

SAR 10g (W/Kg)	0.077206
SAR 1g (W/Kg)	0.115955



MEASUREMENT 49

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

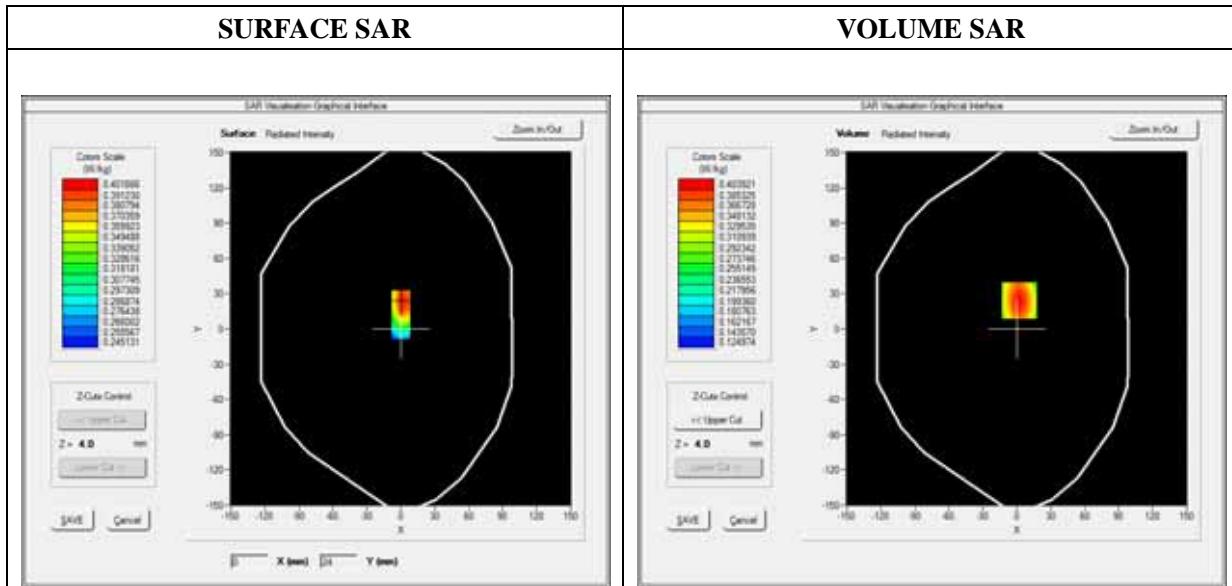
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Left side
Band	LTE Band 5_RMC
Channels	QPSK, 1.4MHz, Low
Signal	Duty Cycle 1:1

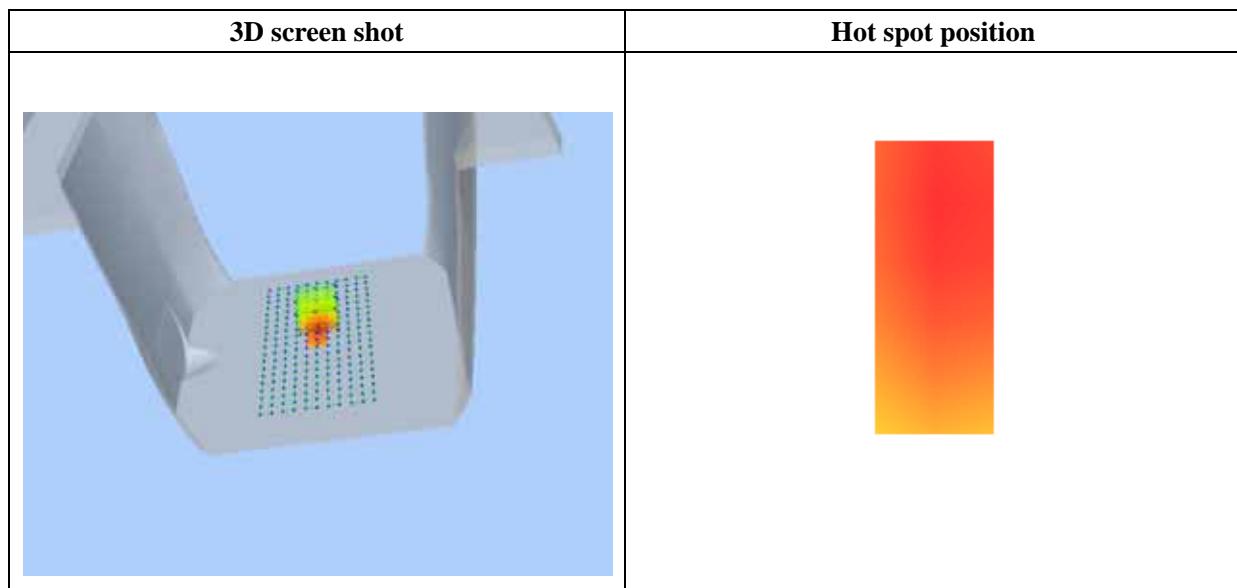
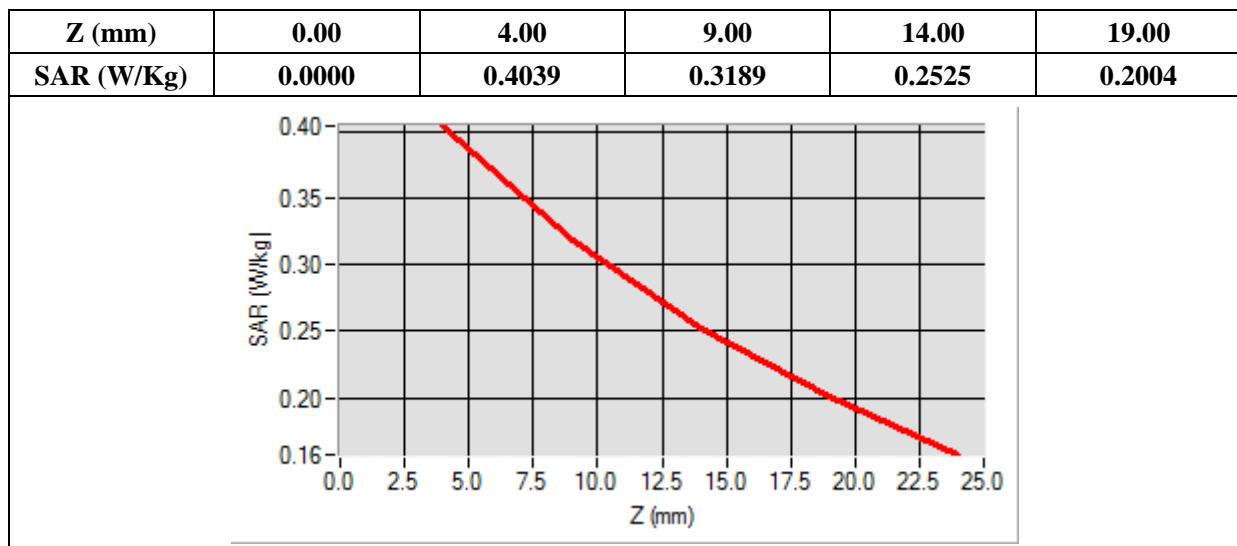
B. SAR Measurement Results

Frequency (MHz)	824.700000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	1.234455
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=2.00, Y=24.00

SAR 10g (W/Kg)	0.311304
SAR 1g (W/Kg)	0.416058



MEASUREMENT 50

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

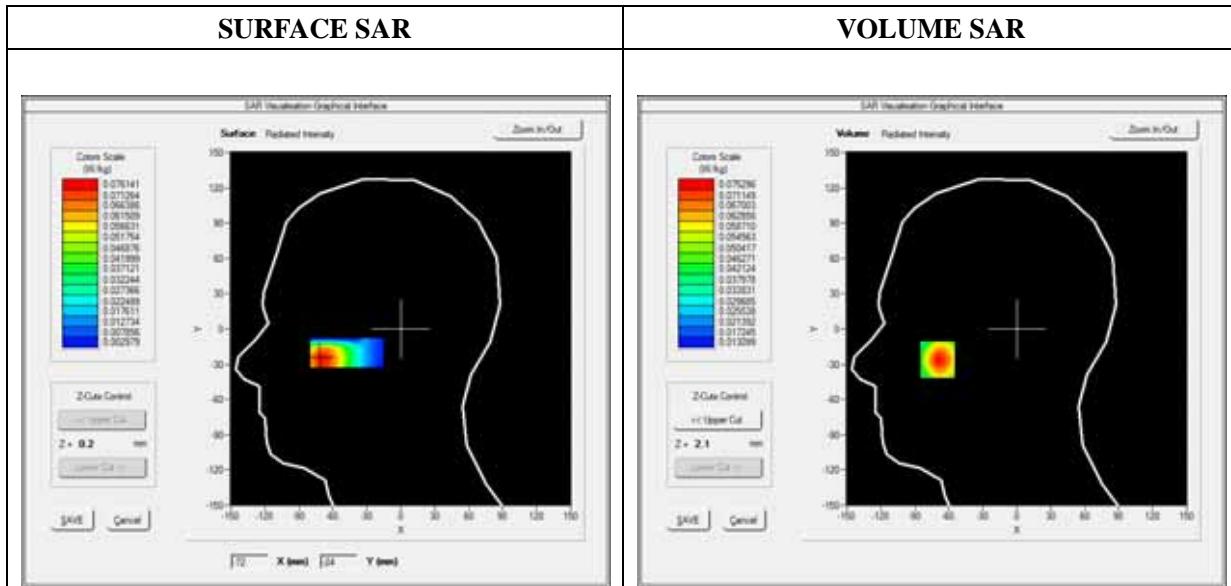
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	LTE Band 17_RMC
Channels	QPSK, 5MHz, Low
Signal	Duty Cycle 1:1

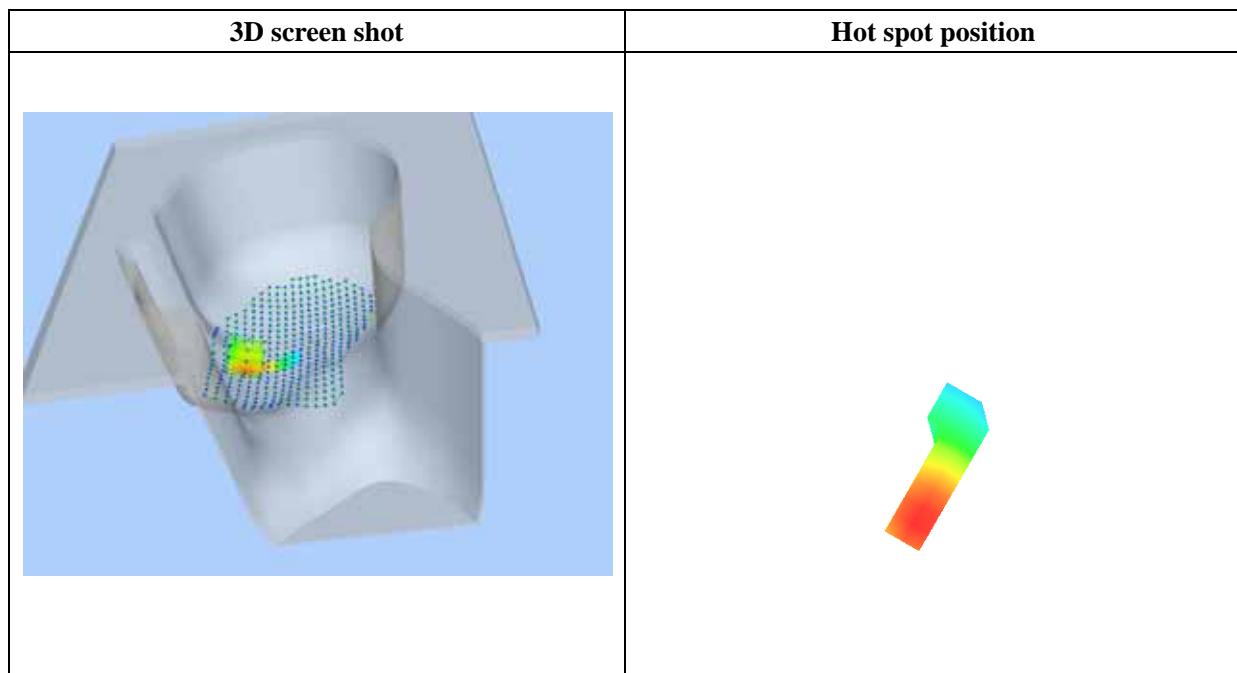
B. SAR Measurement Results

Frequency (MHz)	706.500000
Relative Permittivity (real part)	41.320574
Conductivity (S/m)	0.862373
Power Variation (%)	1.422112
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-70.00, Y=-26.00

SAR 10g (W/Kg)	0.052446
SAR 1g (W/Kg)	0.071641



MEASUREMENT 51

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

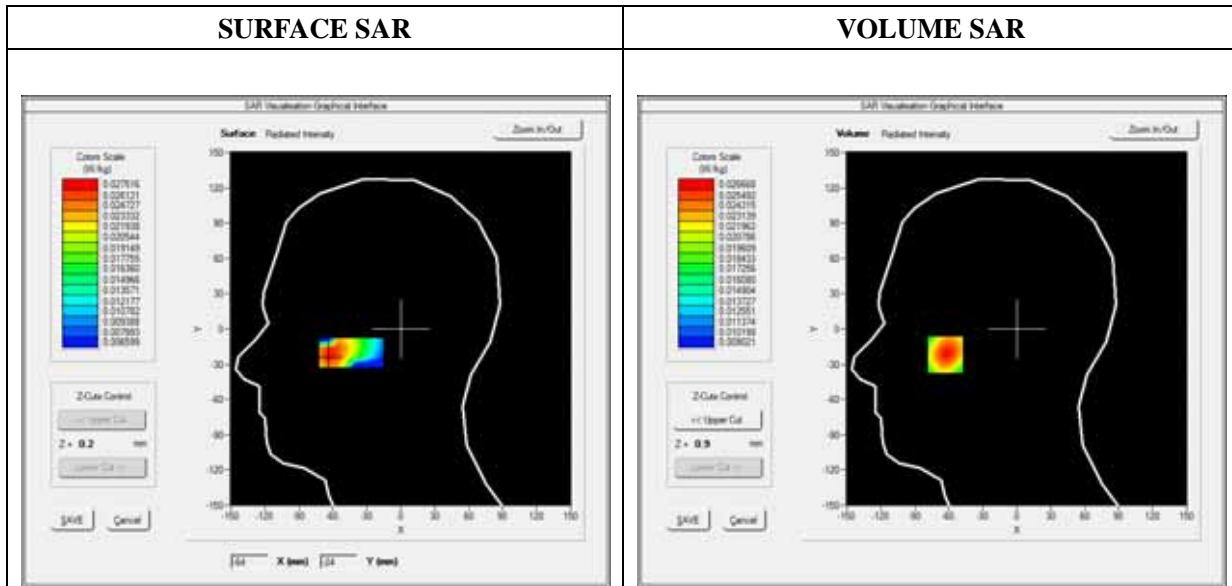
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	LTE Band 17_RMC
Channels	QPSK, 5MHz, Low
Signal	Duty Cycle 1:1

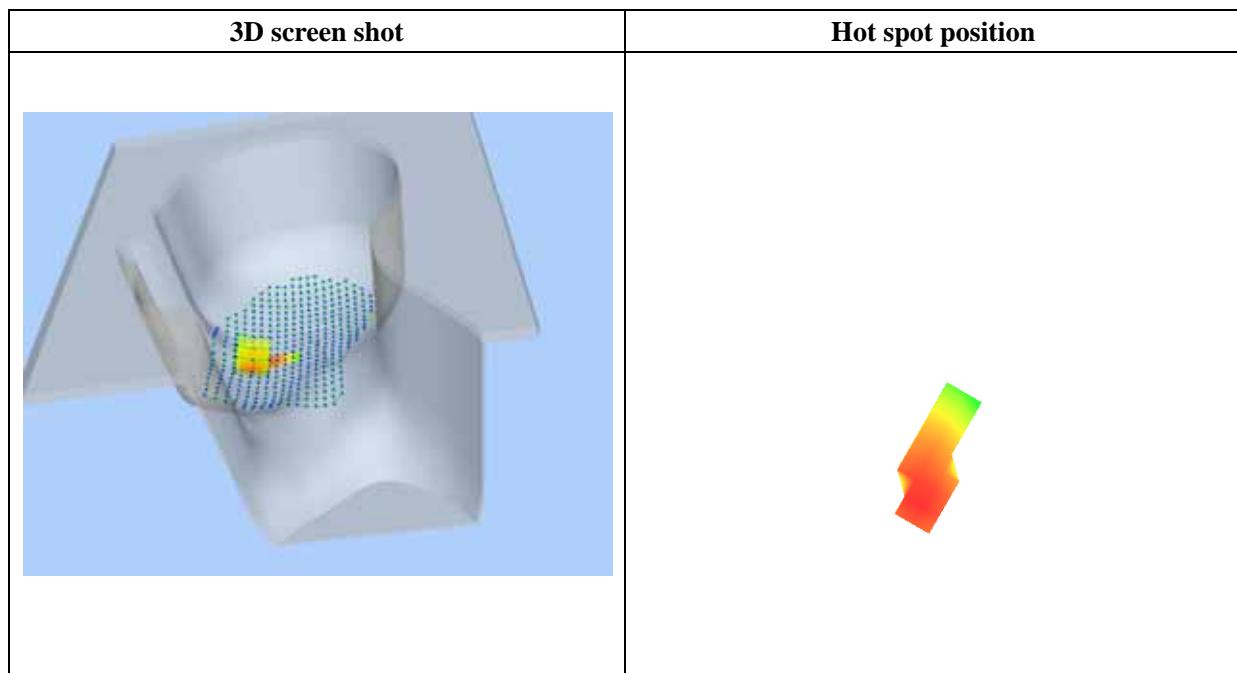
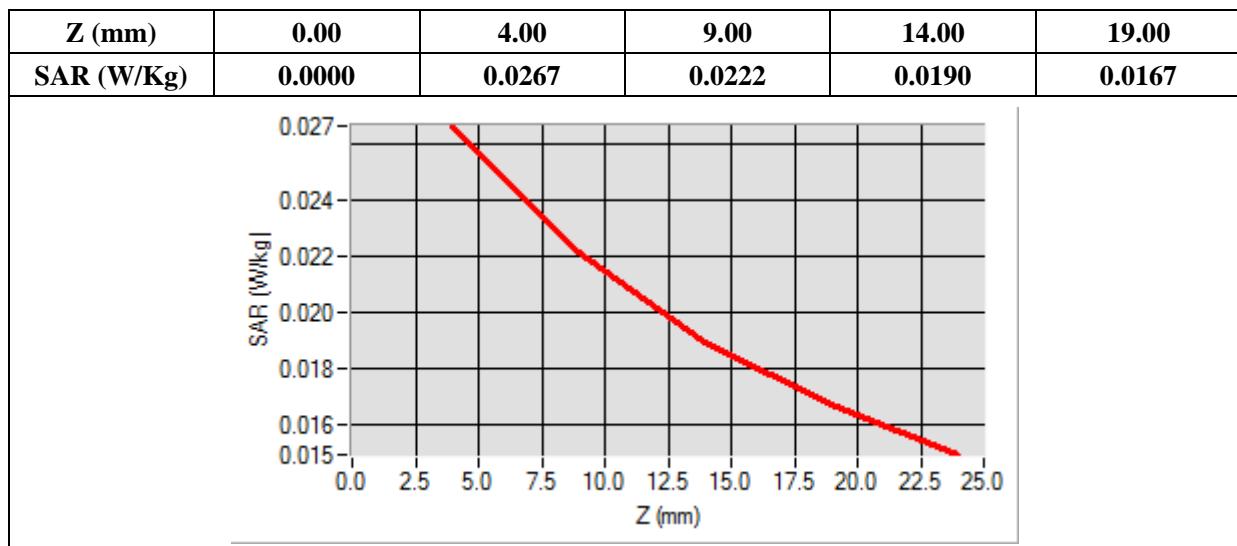
B. SAR Measurement Results

Frequency (MHz)	706.500000
Relative Permittivity (real part)	41.320574
Conductivity (S/m)	0.862373
Power Variation (%)	1.363232
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-63.00, Y=-22.00

SAR 10g (W/Kg)	0.020438
SAR 1g (W/Kg)	0.025721



MEASUREMENT 52

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

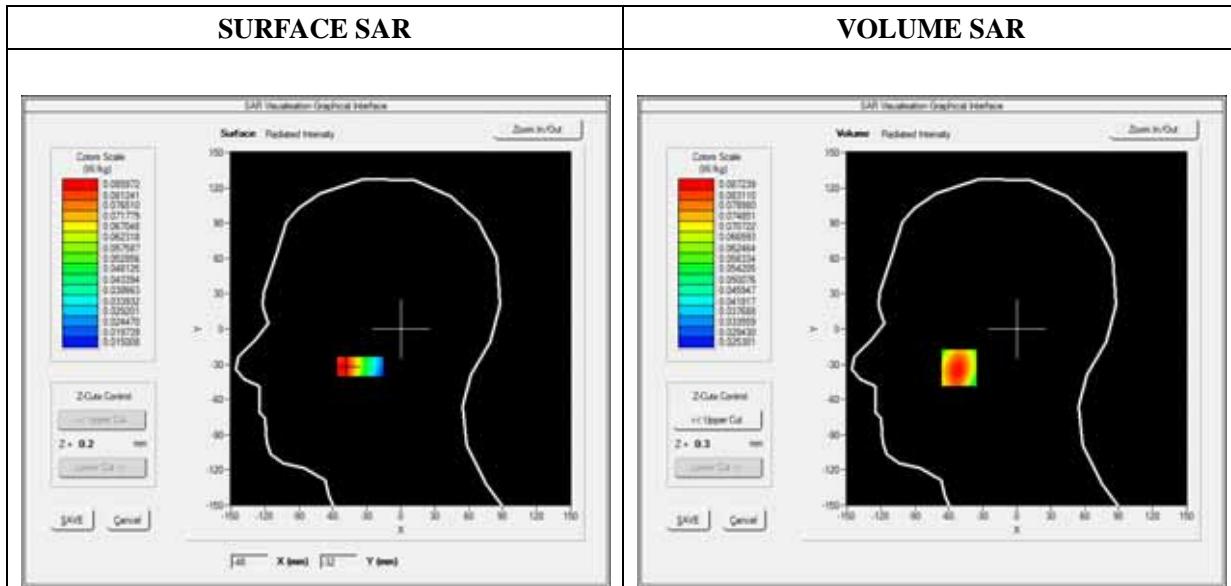
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	LTE Band 17_RMC
Channels	QPSK, 5MHz, Low
Signal	Duty Cycle 1:1

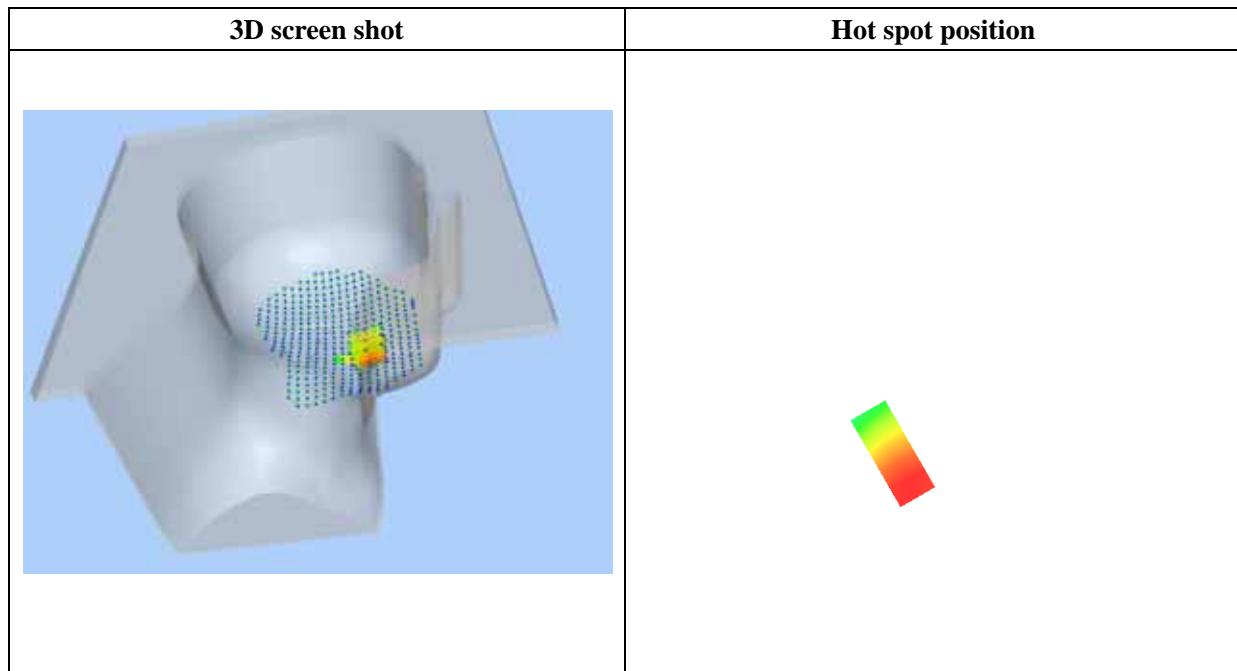
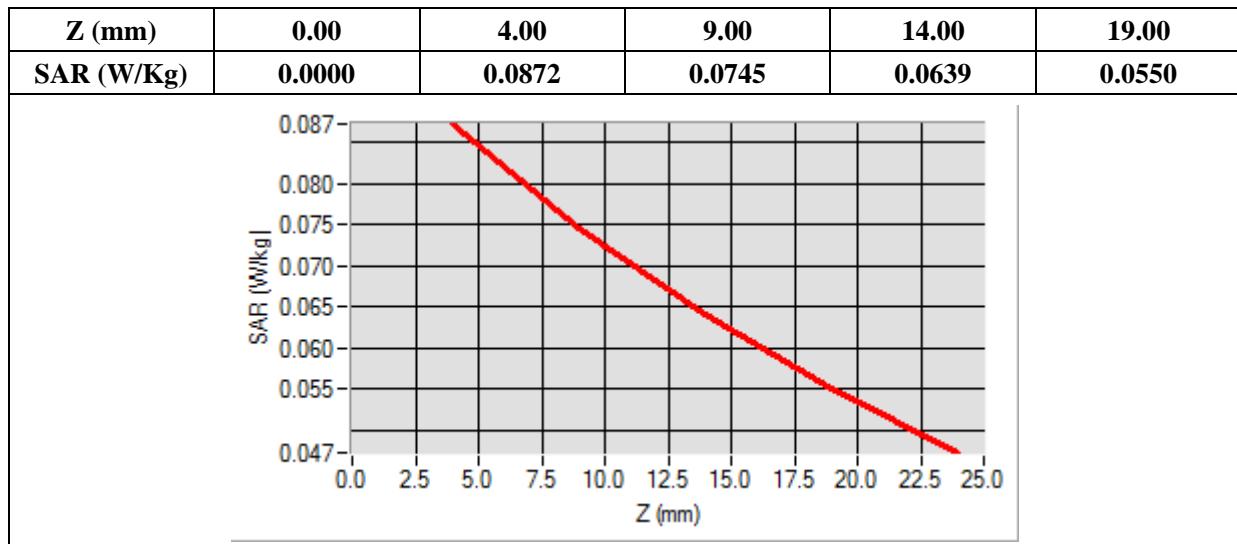
B. SAR Measurement Results

Frequency (MHz)	706.500000
Relative Permittivity (real part)	41.320574
Conductivity (S/m)	0.862373
Power Variation (%)	1.945217
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-51.00, Y=-33.00

SAR 10g (W/Kg)	0.067578
SAR 1g (W/Kg)	0.084643



MEASUREMENT 53

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

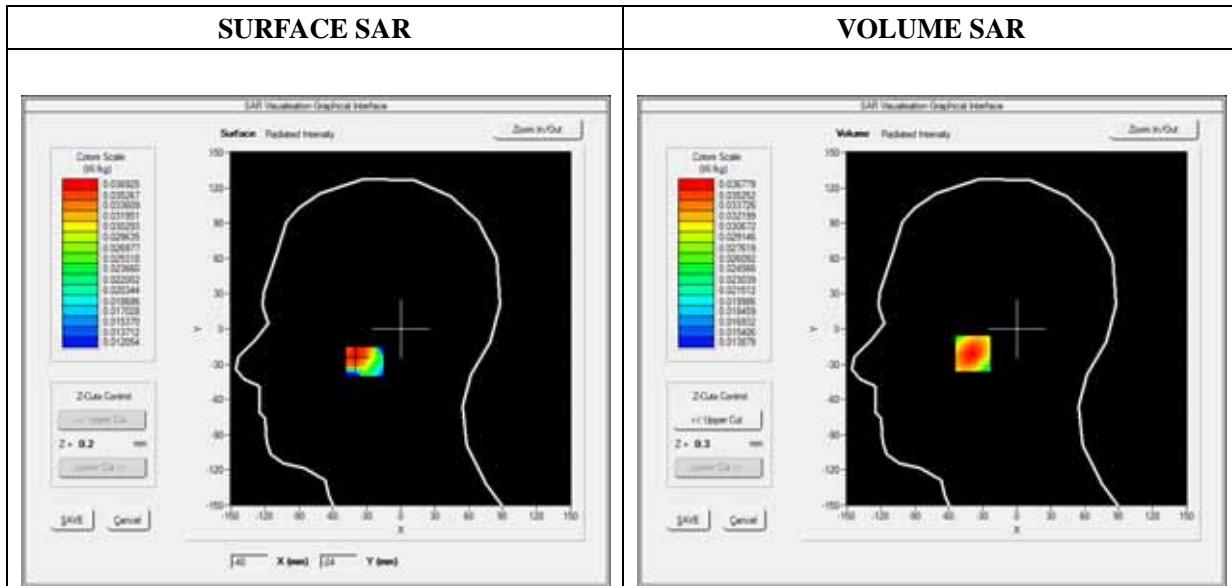
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	LTE Band 17_RMC
Channels	QPSK, 5MHz, Low
Signal	Duty Cycle 1:1

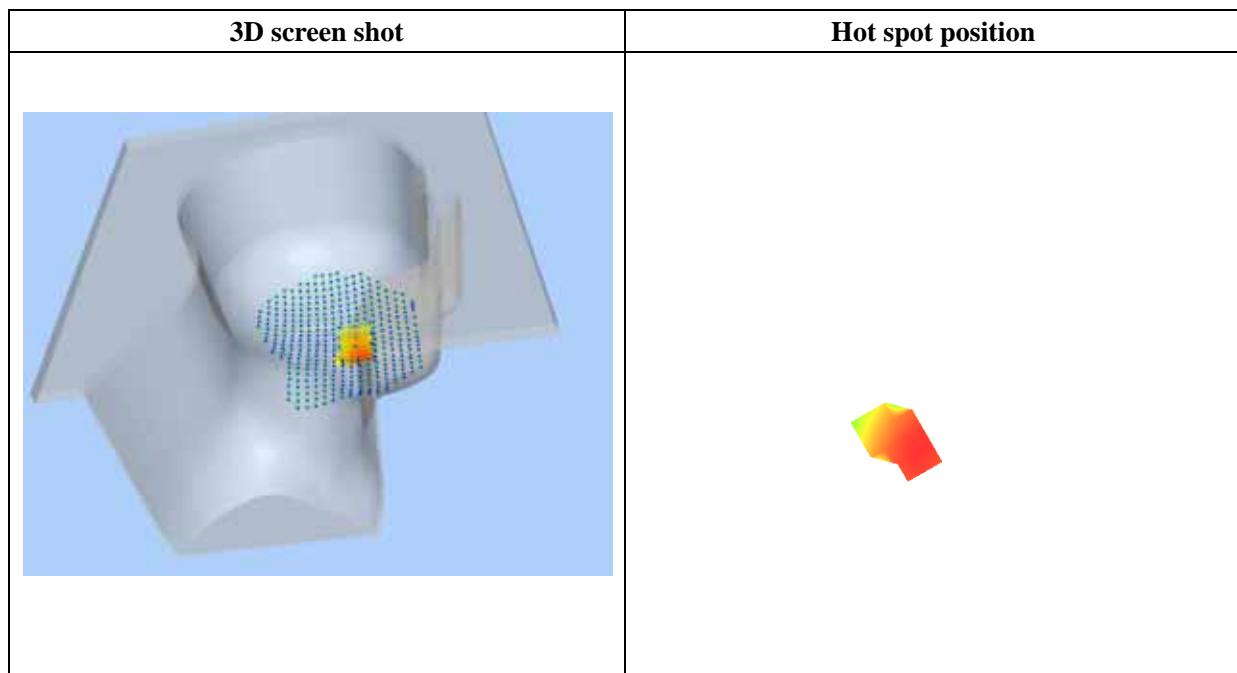
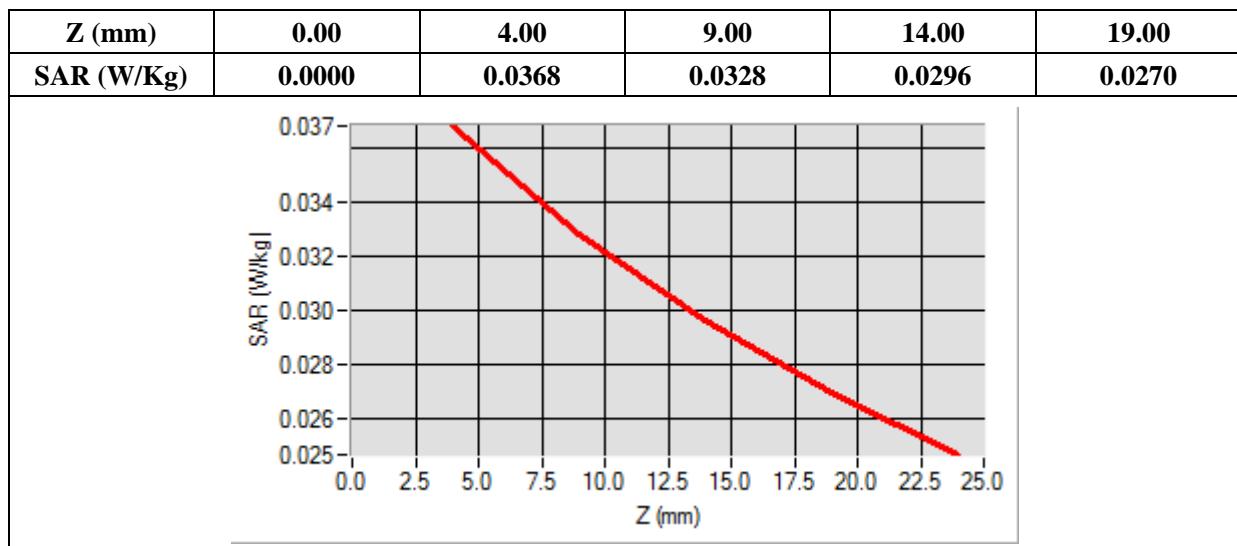
B. SAR Measurement Results

Frequency (MHz)	706.500000
Relative Permittivity (real part)	41.320574
Conductivity (S/m)	0.862373
Power Variation (%)	1.355883
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.030115
SAR 1g (W/Kg)	0.035668



MEASUREMENT 54

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

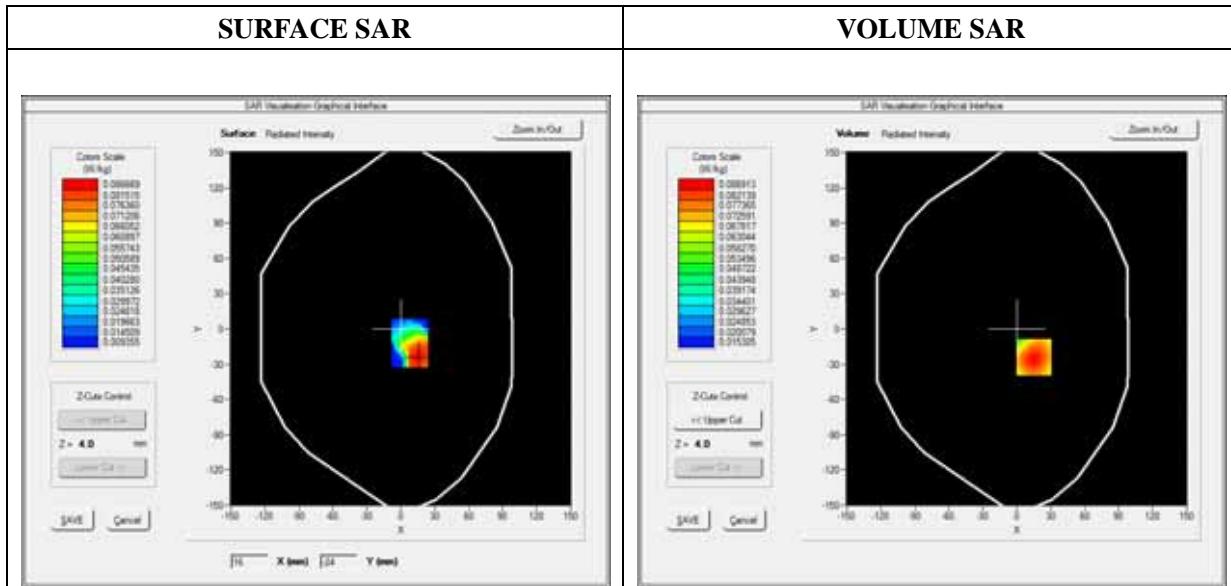
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 17_RMC
Channels	QPSK, 5MHz, Low
Signal	Duty Cycle 1:1

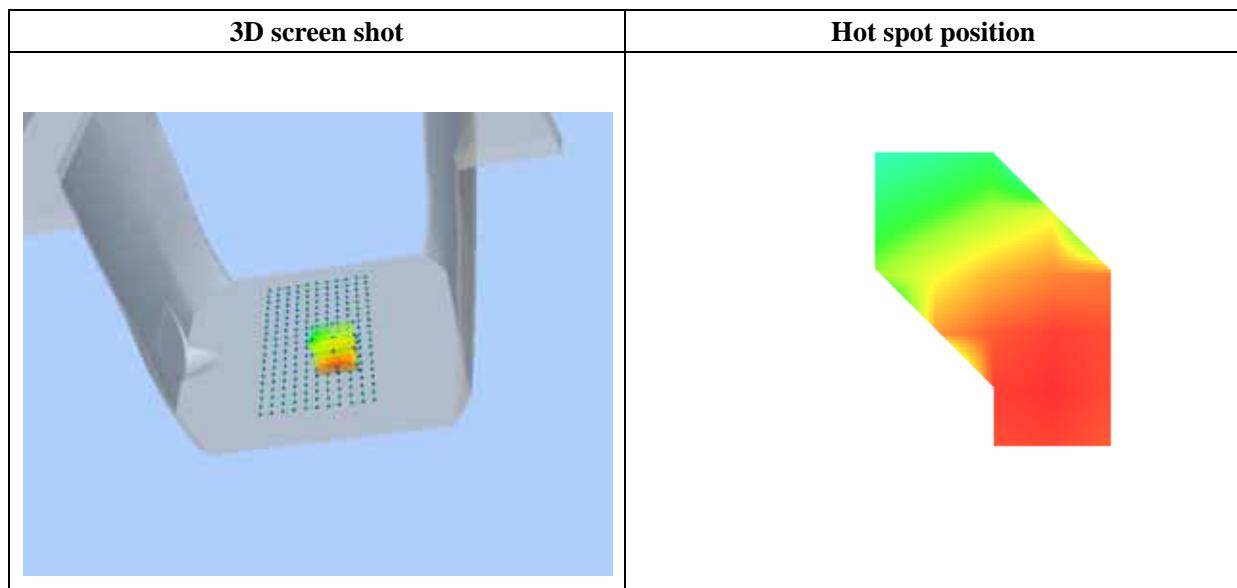
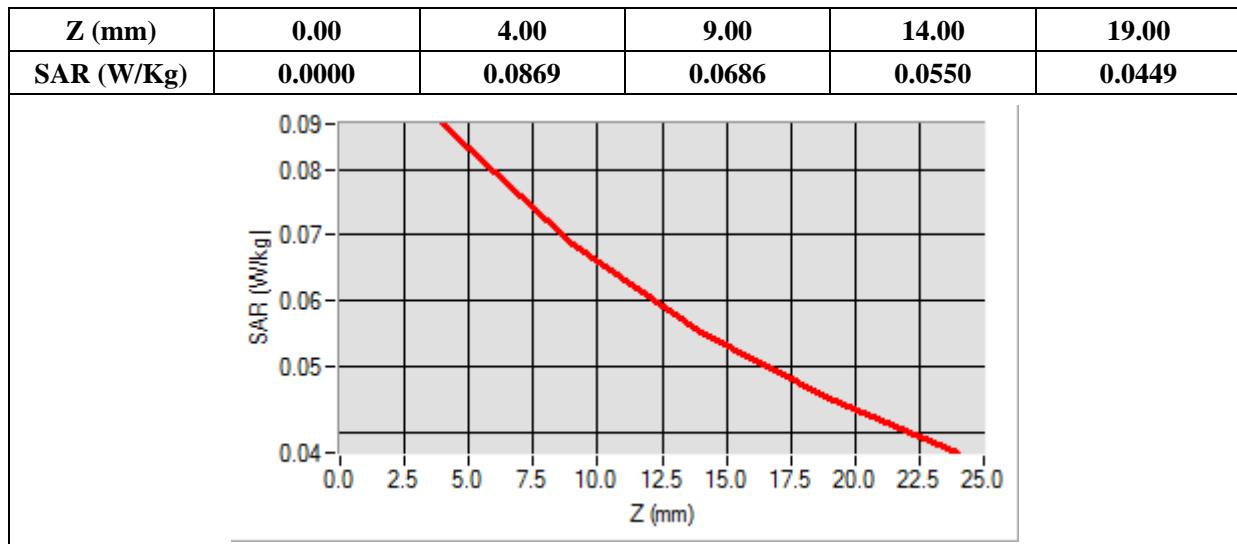
B. SAR Measurement Results

Frequency (MHz)	706.500000
Relative Permittivity (real part)	54.964739
Conductivity (S/m)	0.9310484
Power Variation (%)	0.954431
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=15.00, Y=-24.00

SAR 10g (W/Kg)	0.062961
SAR 1g (W/Kg)	0.083272



MEASUREMENT 55

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

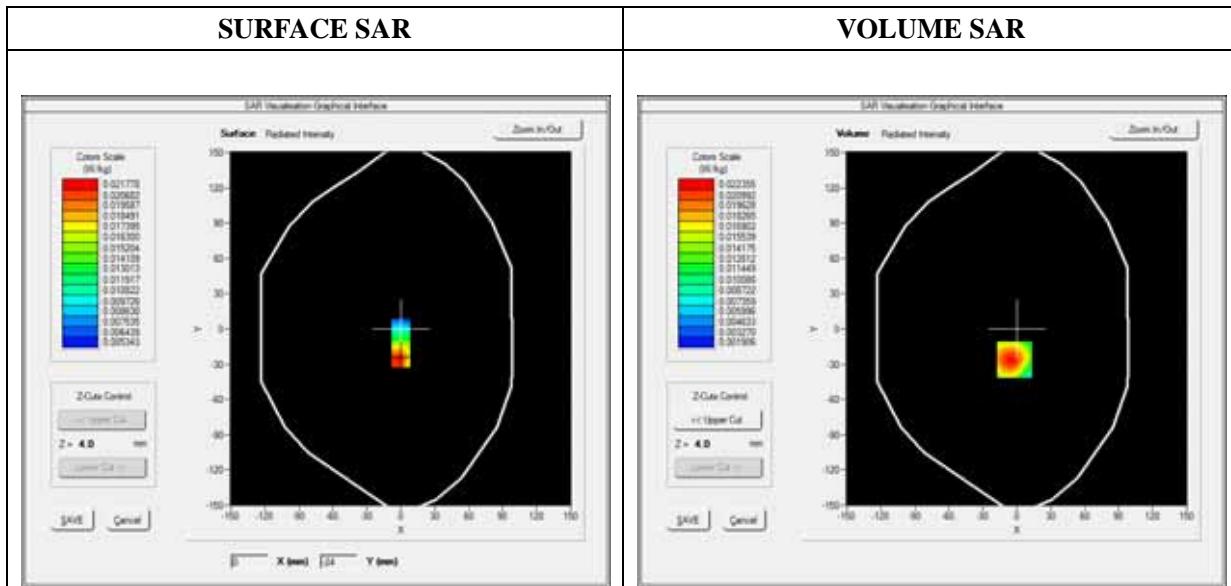
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 17_RMC
Channels	QPSK, 5MHz, Low
Signal	Duty Cycle 1:1

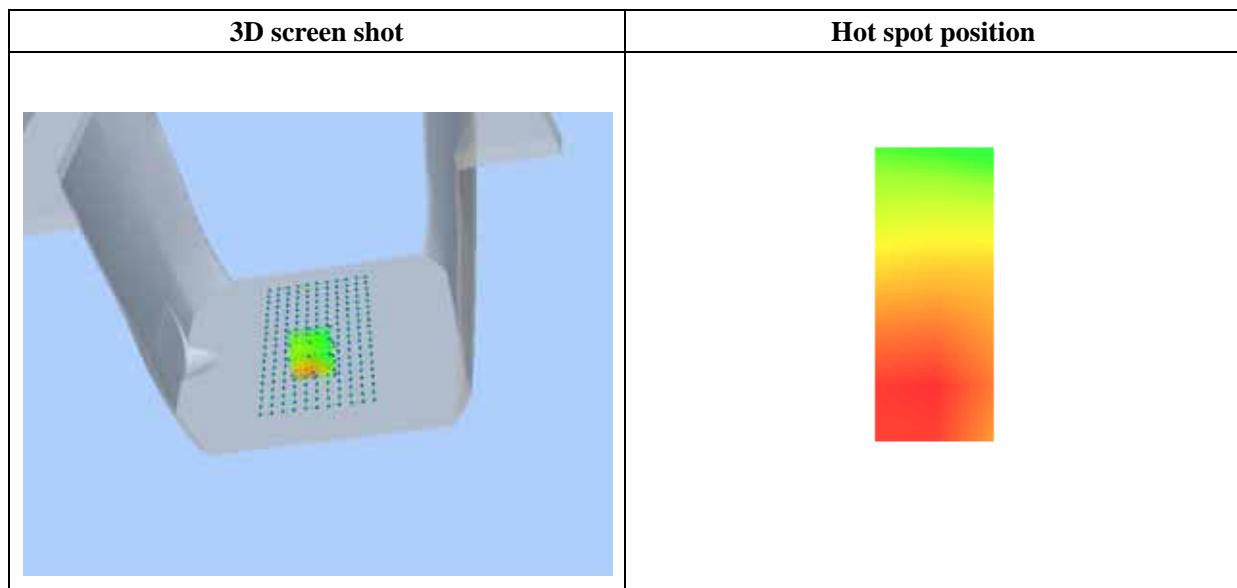
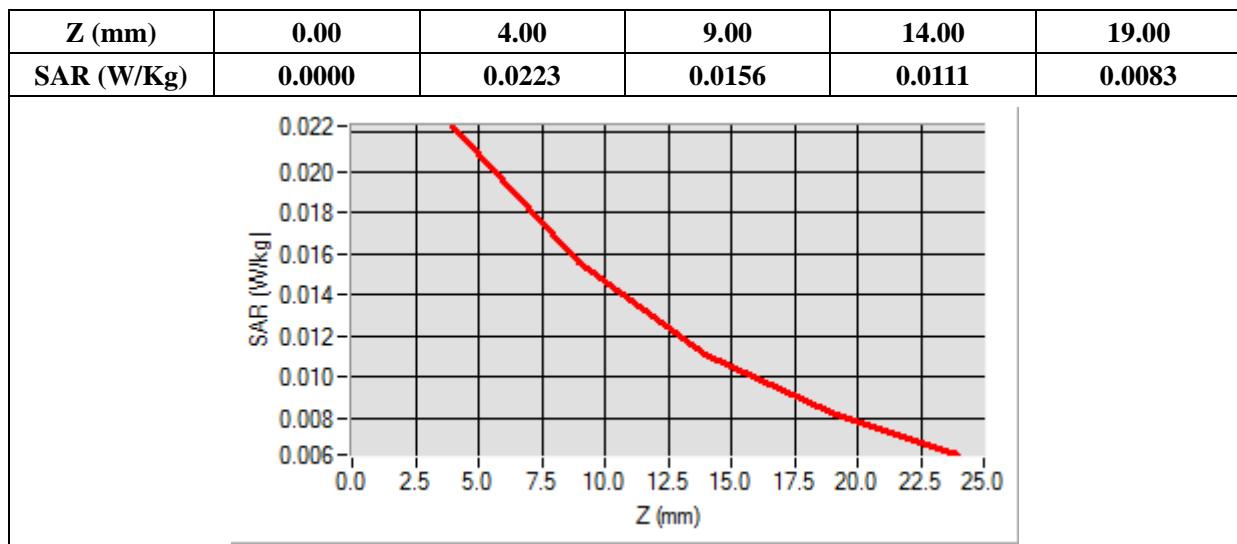
B. SAR Measurement Results

Frequency (MHz)	706.500000
Relative Permittivity (real part)	54.964739
Conductivity (S/m)	0.9310484
Power Variation (%)	1.754322
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-2.00, Y=-26.00

SAR 10g (W/Kg)	0.014223
SAR 1g (W/Kg)	0.021137



MEASUREMENT 56

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

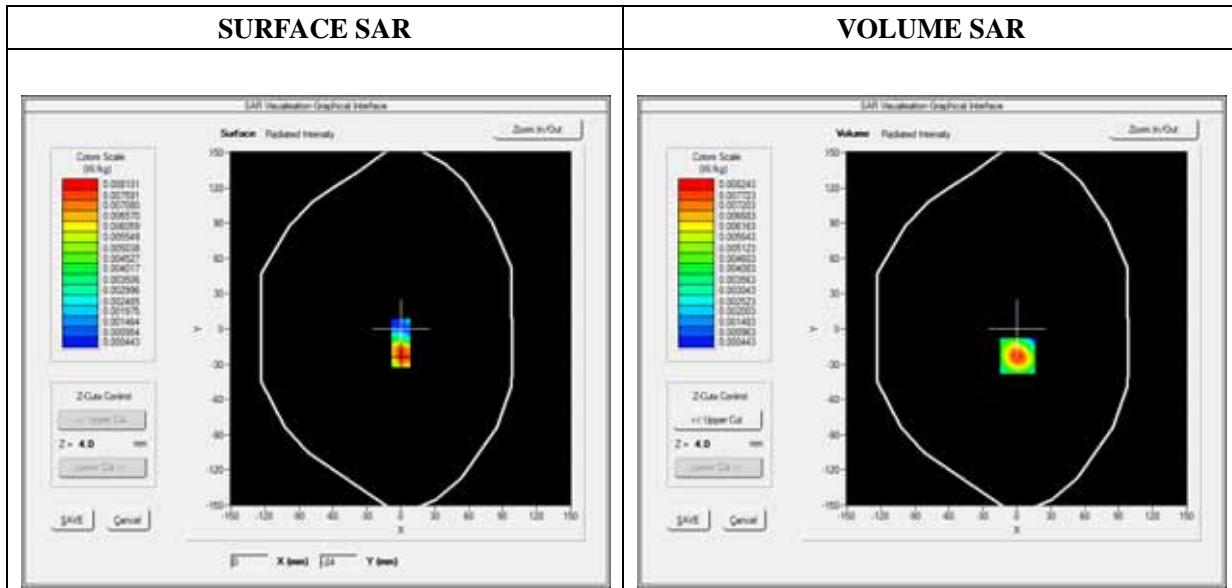
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Bottom
Band	LTE Band 17_RMC
Channels	QPSK, 5MHz, Low
Signal	Duty Cycle 1:1

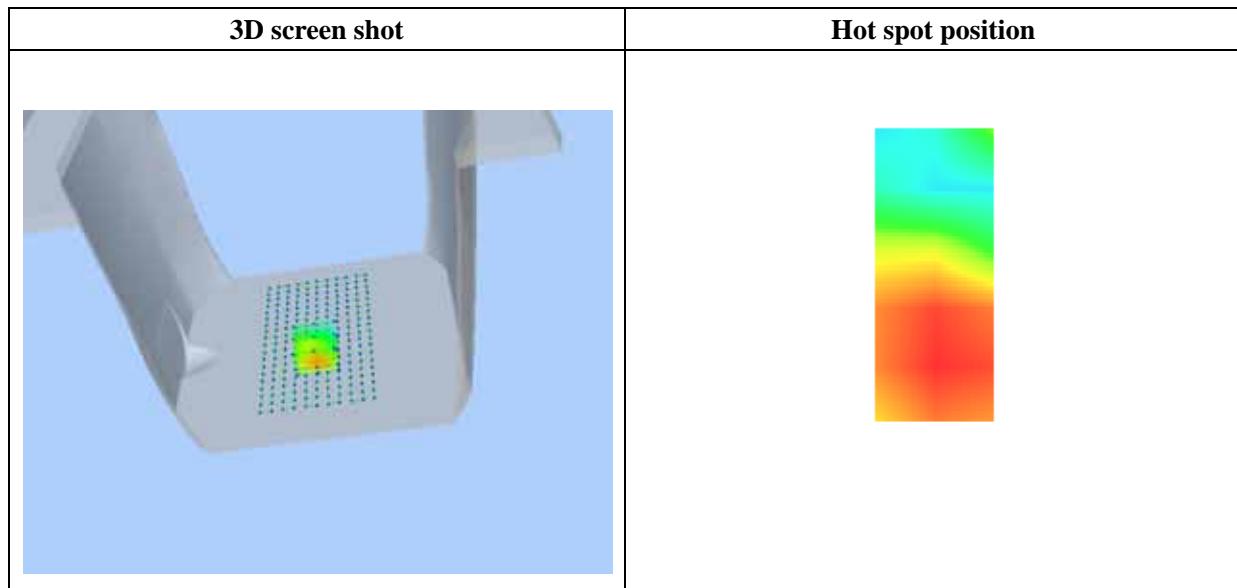
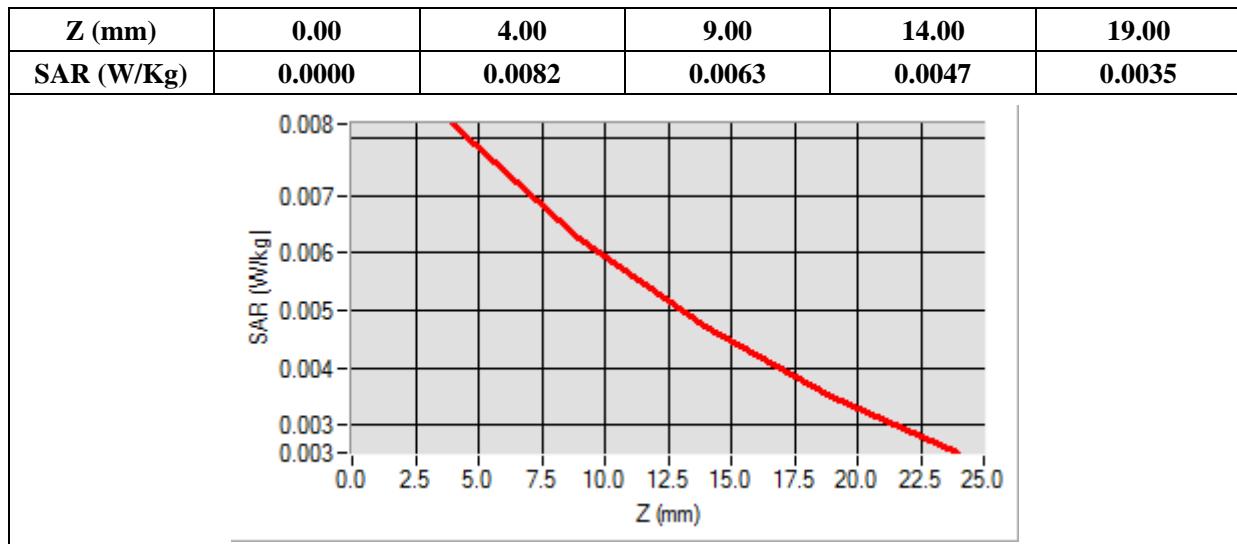
B. SAR Measurement Results

Frequency (MHz)	706.500000
Relative Permittivity (real part)	54.964739
Conductivity (S/m)	0.9310484
Power Variation (%)	2.339113
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=-23.00

SAR 10g (W/Kg)	0.004931
SAR 1g (W/Kg)	0.007546



MEASUREMENT 57

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

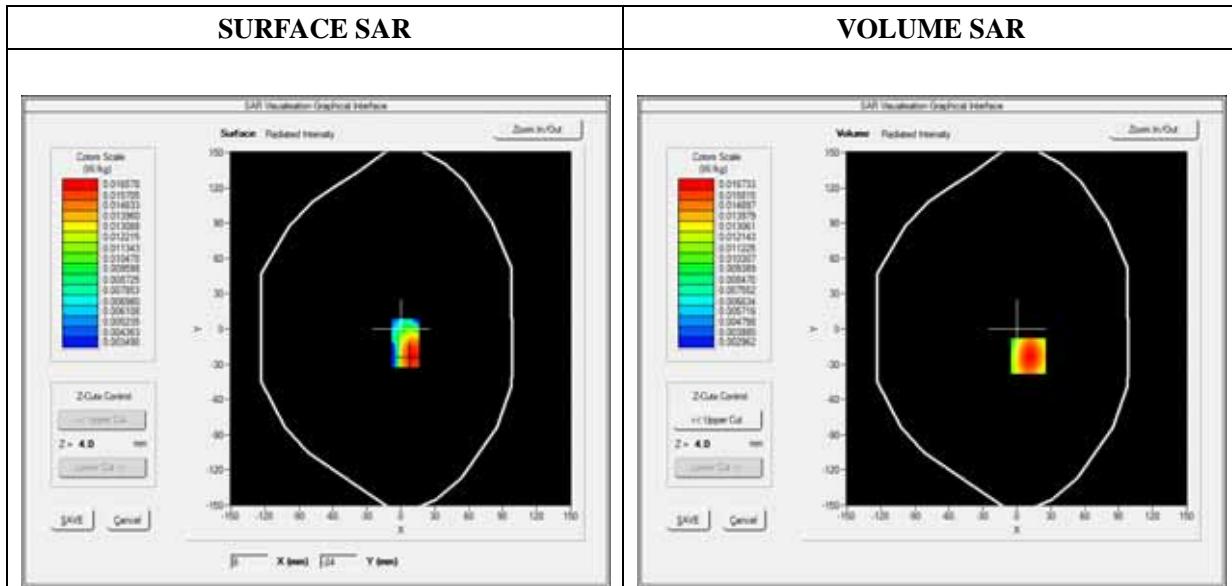
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Right side
Band	LTE Band 17_RMC
Channels	QPSK, 5MHz, Low
Signal	Duty Cycle 1:1

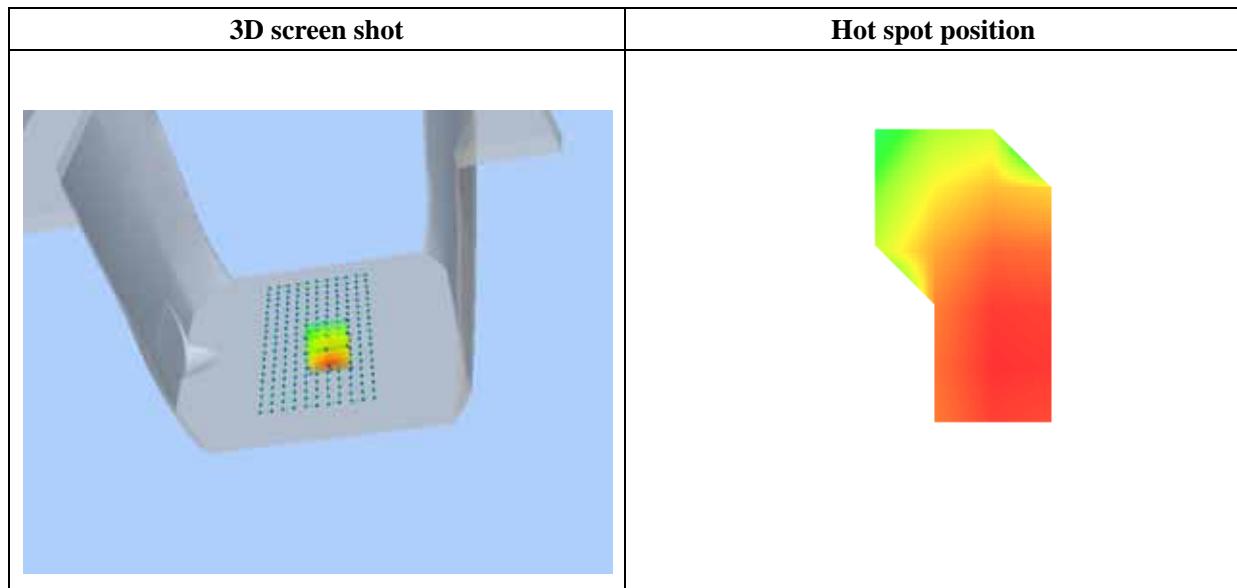
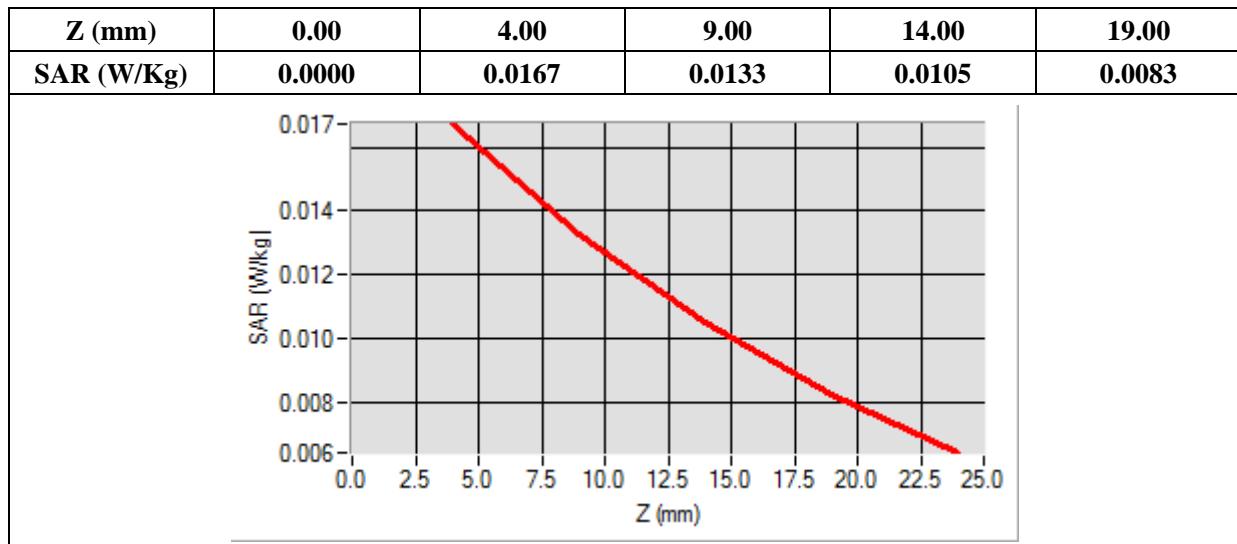
B. SAR Measurement Results

Frequency (MHz)	706.500000
Relative Permittivity (real part)	54.964739
Conductivity (S/m)	0.9310484
Power Variation (%)	2.384742
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=10.00, Y=-23.00

SAR 10g (W/Kg)	0.011856
SAR 1g (W/Kg)	0.016006



MEASUREMENT 58

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

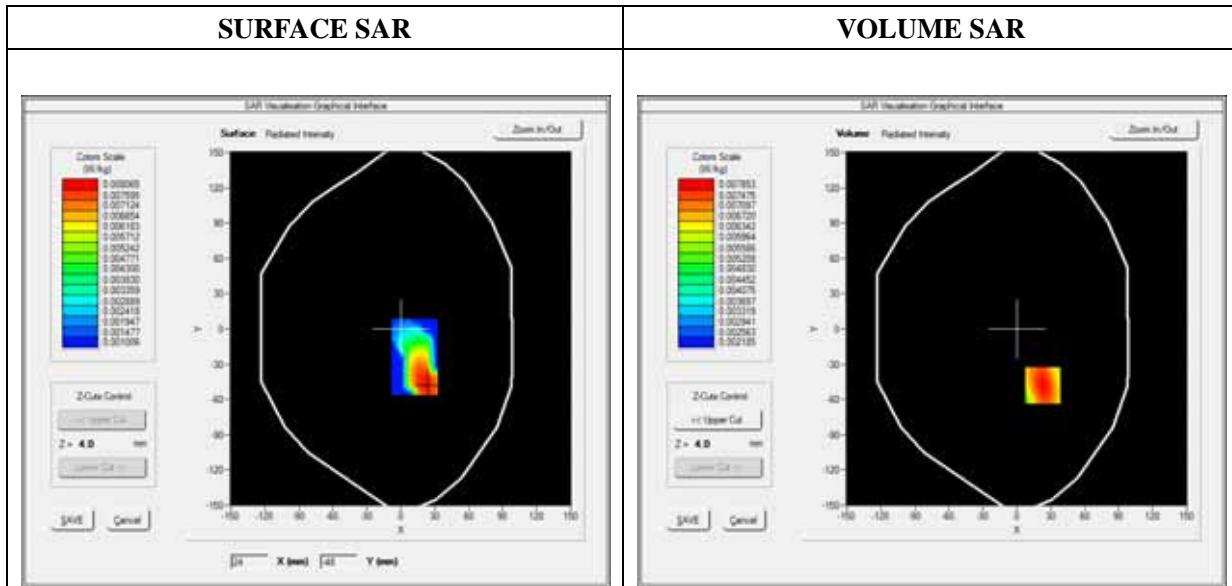
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Left side
Band	LTE Band 17_RMC
Channels	QPSK, 5MHz, Low
Signal	Duty Cycle 1:1

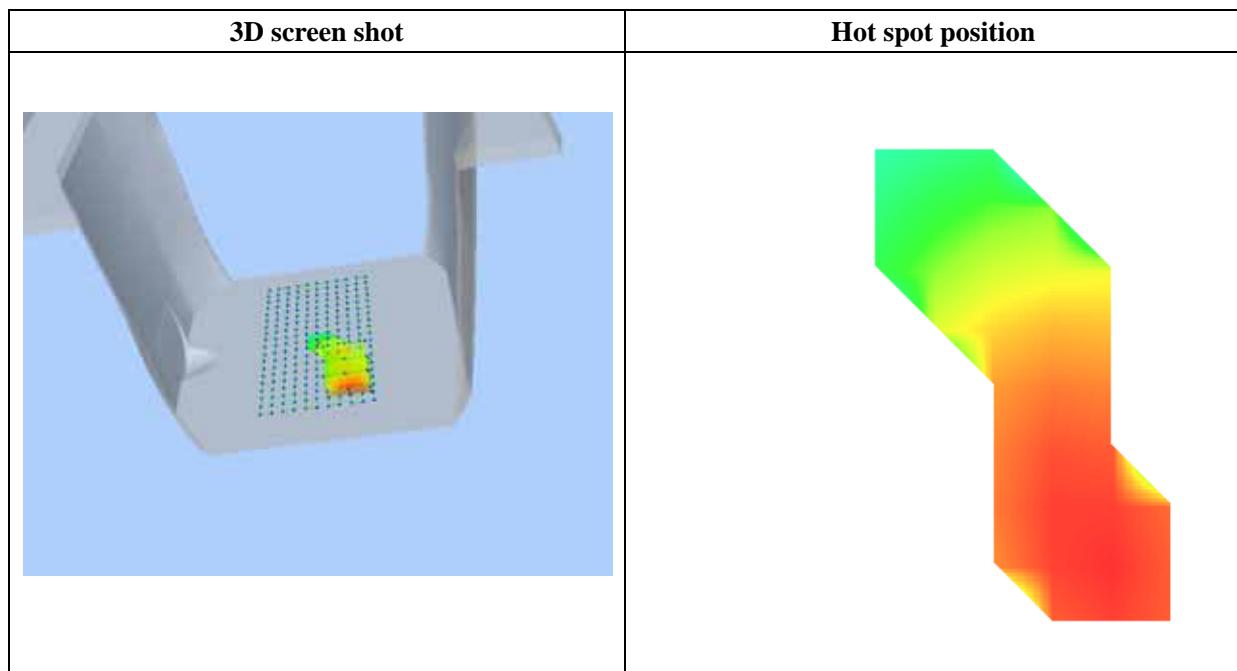
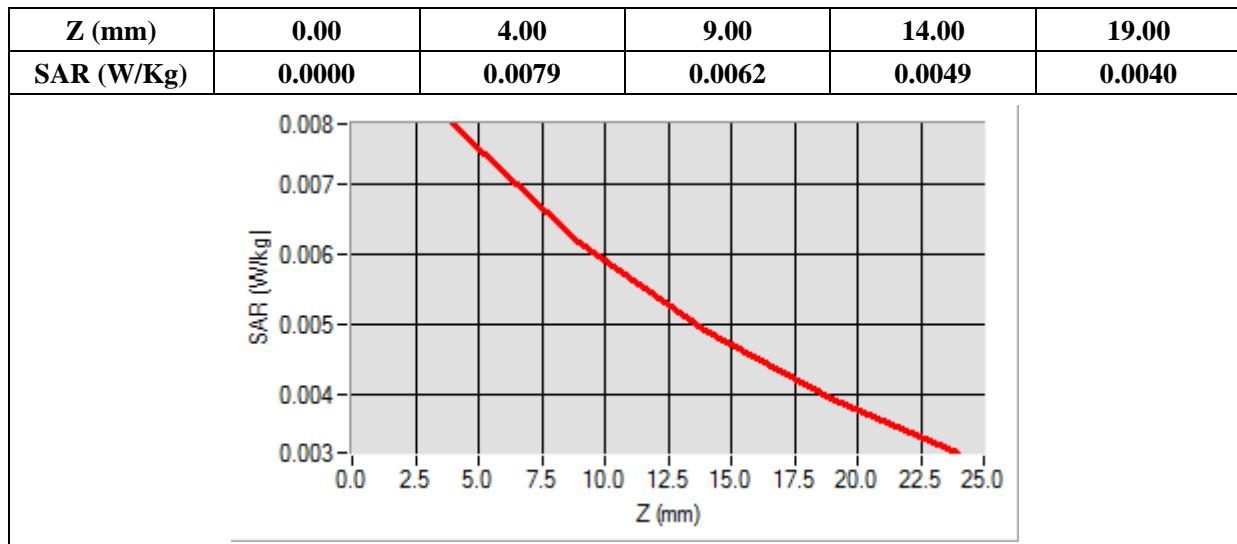
B. SAR Measurement Results

Frequency (MHz)	706.500000
Relative Permittivity (real part)	54.964739
Conductivity (S/m)	0.9310484
Power Variation (%)	1.484431
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=23.00, Y=-48.00

SAR 10g (W/Kg)	0.005698
SAR 1g (W/Kg)	0.007537



MEASUREMENT 59

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

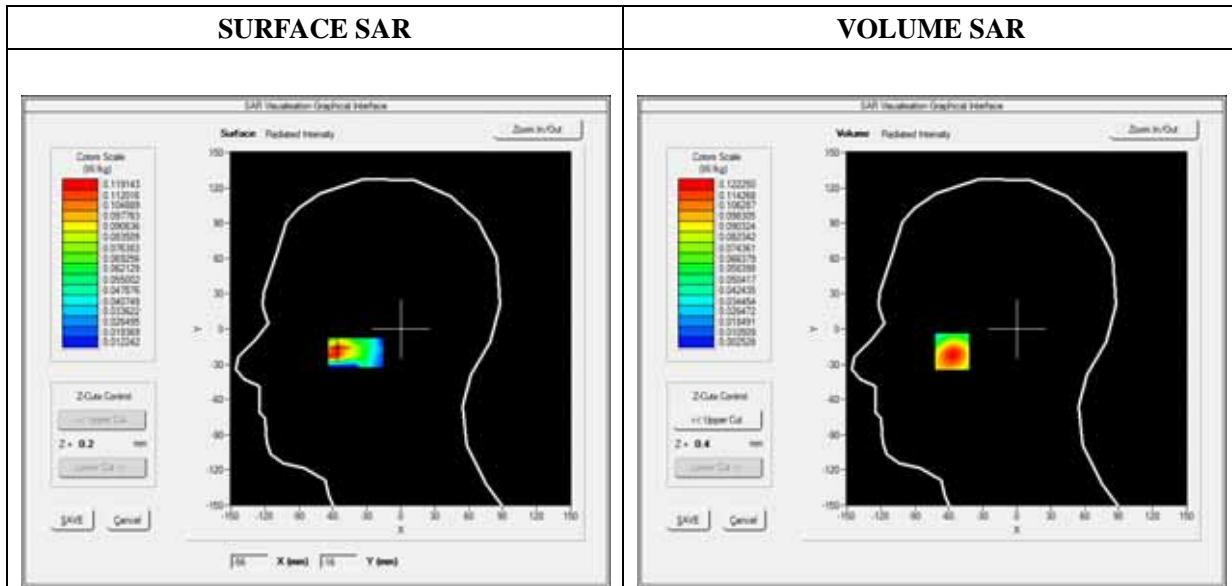
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	LTE Band 41_RMC
Channels	QPSK, 20MHz, Low
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

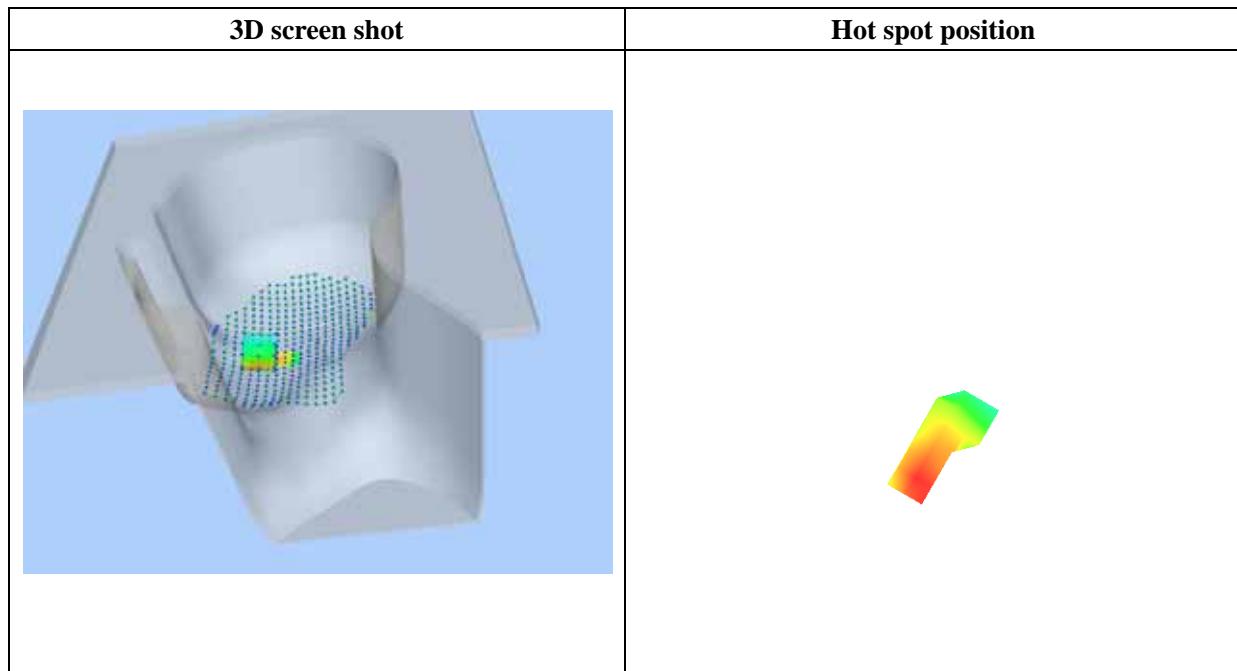
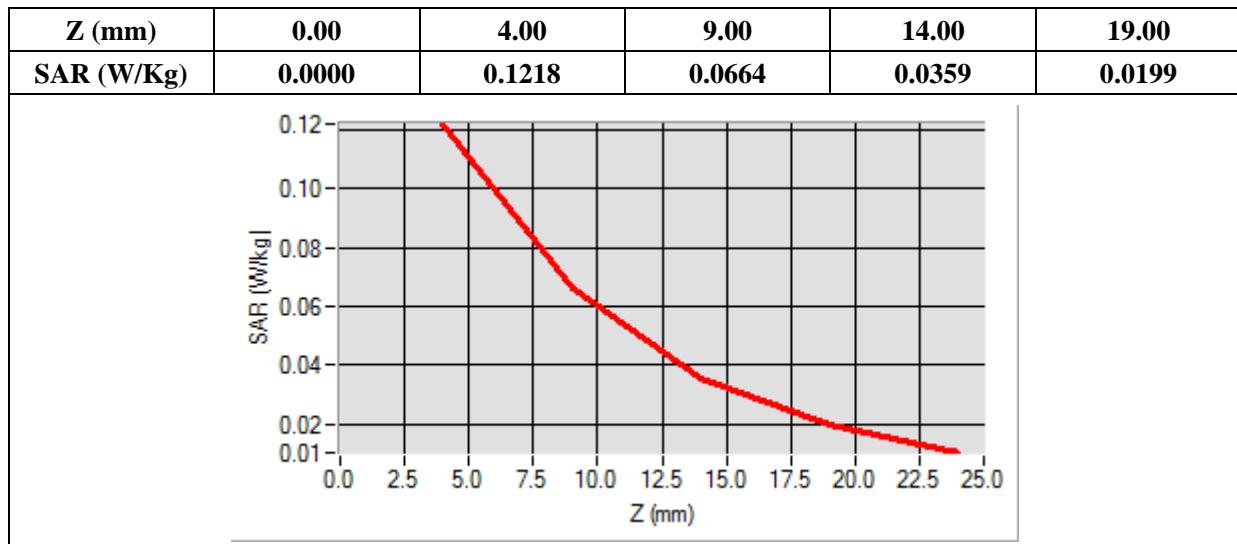
B. SAR Measurement Results

Frequency (MHz)	2506.000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	1.165345
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-57.00, Y=-19.00

SAR 10g (W/Kg)	0.063667
SAR 1g (W/Kg)	0.114931



MEASUREMENT 60

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

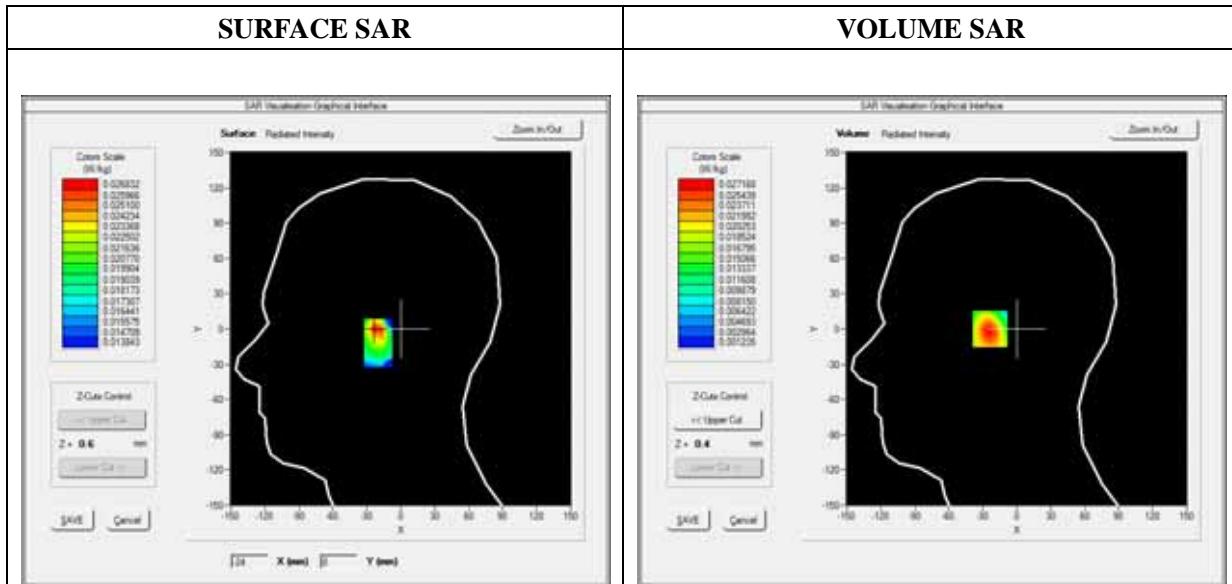
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	LTE Band 41_RMC
Channels	QPSK, 20MHz, Low
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

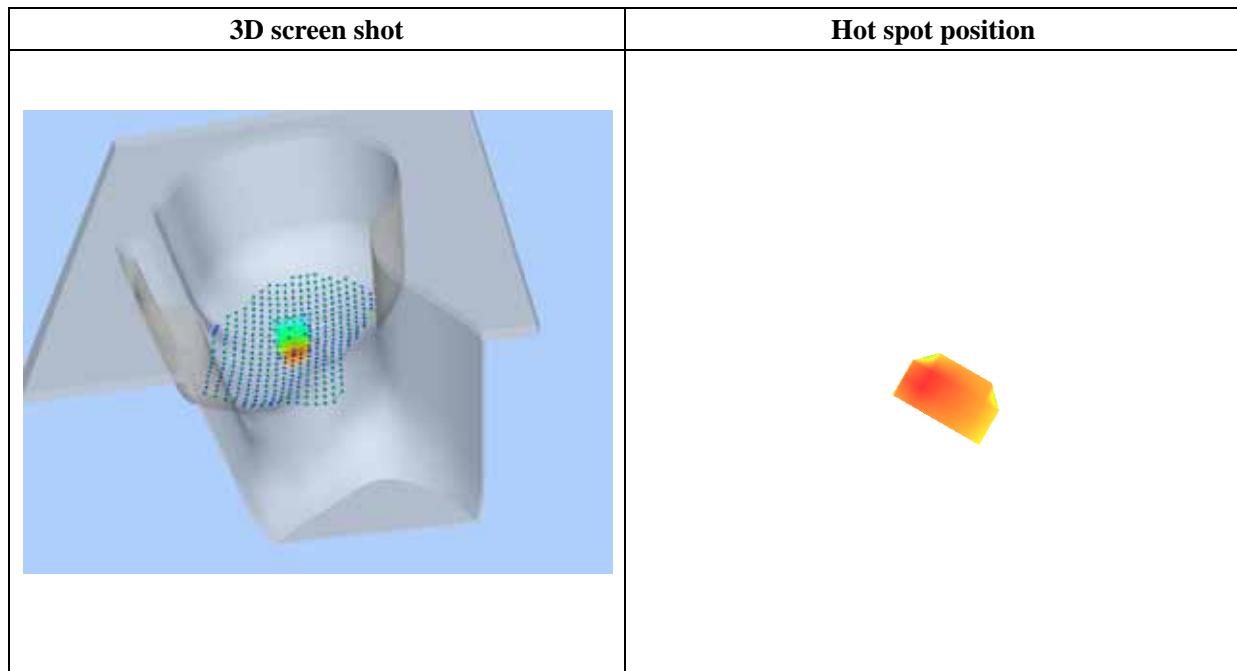
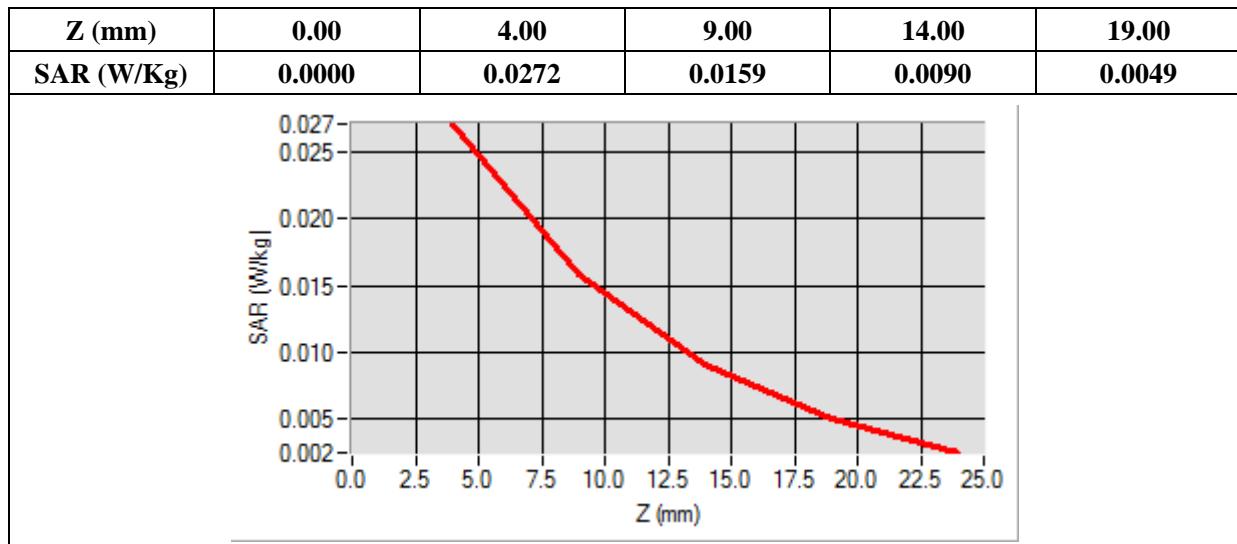
B. SAR Measurement Results

Frequency (MHz)	2506.000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	2.498277
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-22.00, Y=0.00

SAR 10g (W/Kg)	0.013929
SAR 1g (W/Kg)	0.025304



MEASUREMENT 61

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

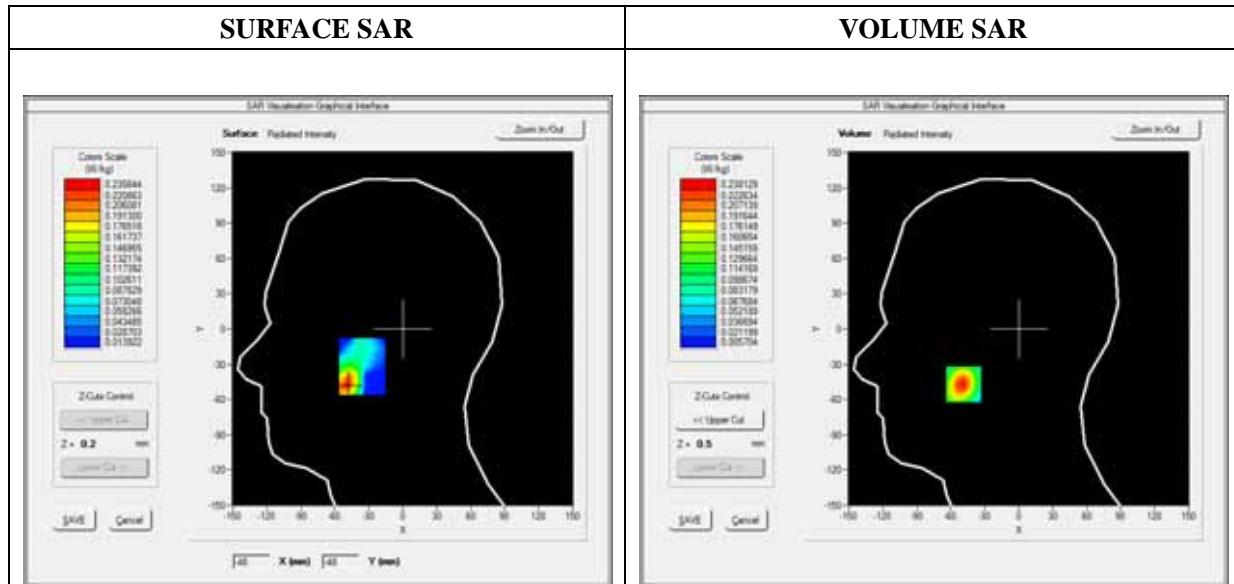
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	LTE Band 41_RMC
Channels	QPSK, 20MHz, Low
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

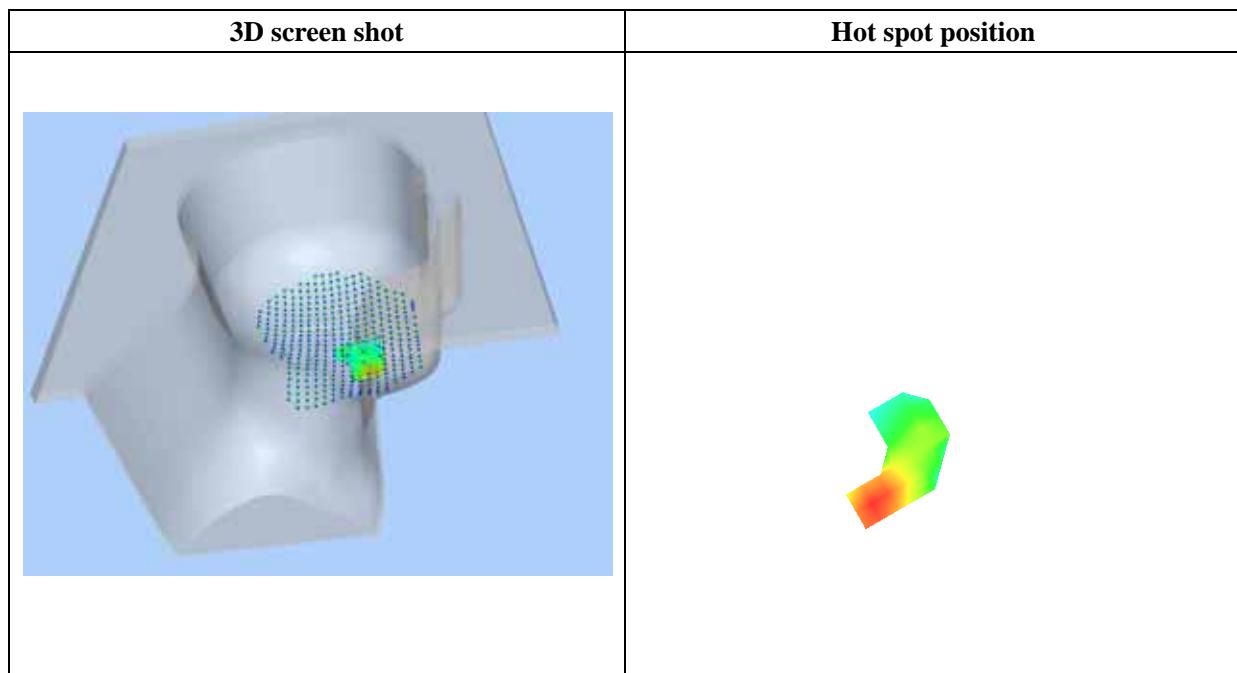
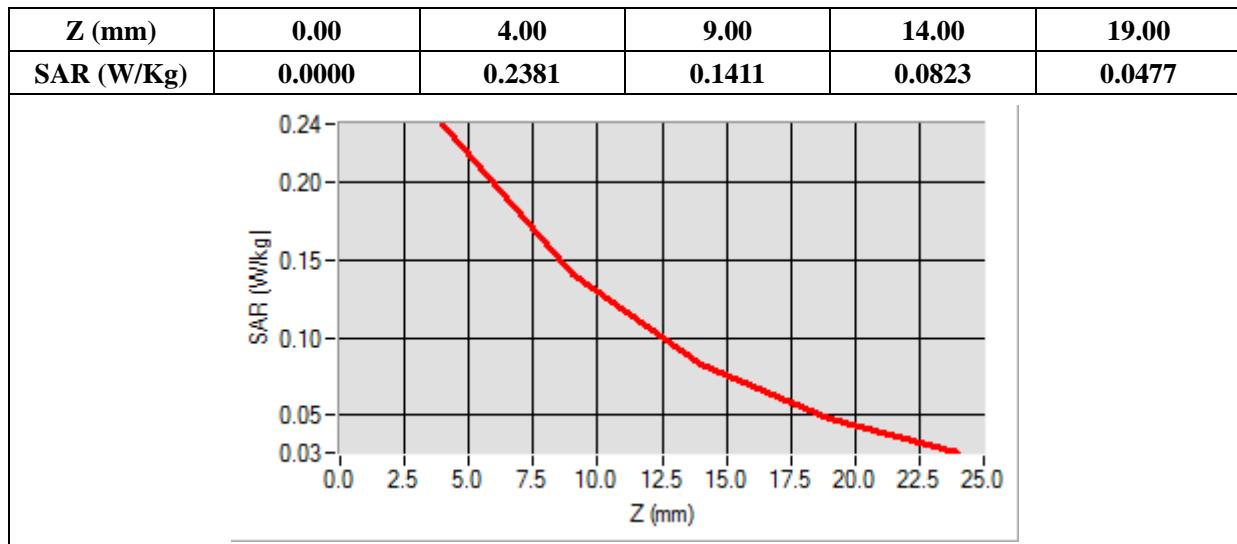
B. SAR Measurement Results

Frequency (MHz)	2506.000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	1.658326
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-49.00, Y=-47.00

SAR 10g (W/Kg)	0.115101
SAR 1g (W/Kg)	0.216868



MEASUREMENT 62

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

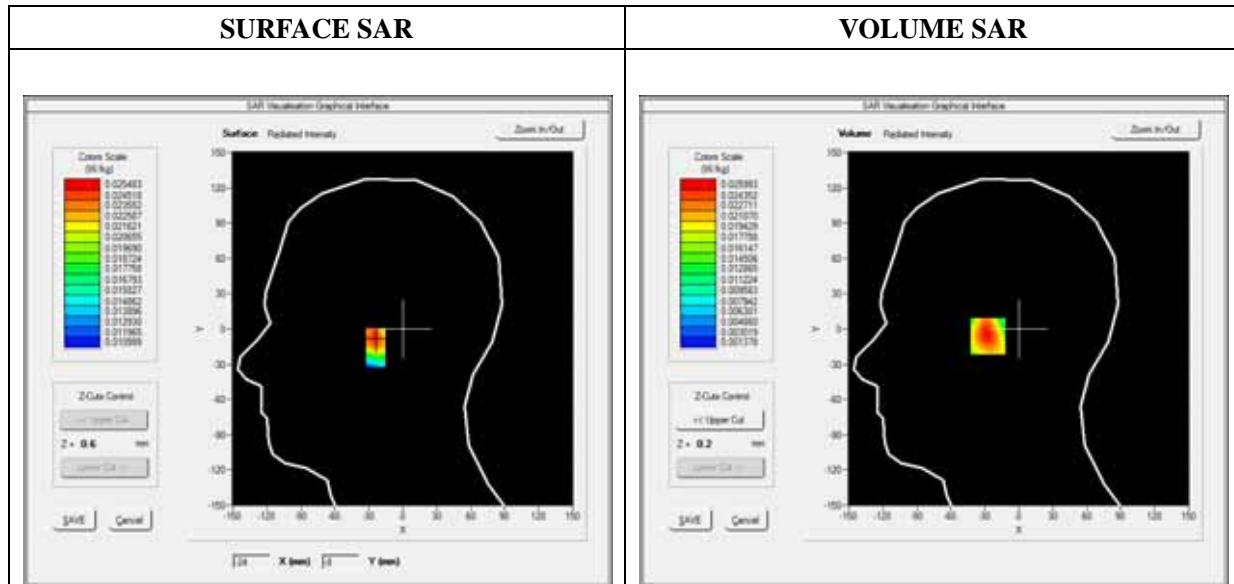
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	LTE Band 41_RMC
Channels	QPSK, 20MHz, Low
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

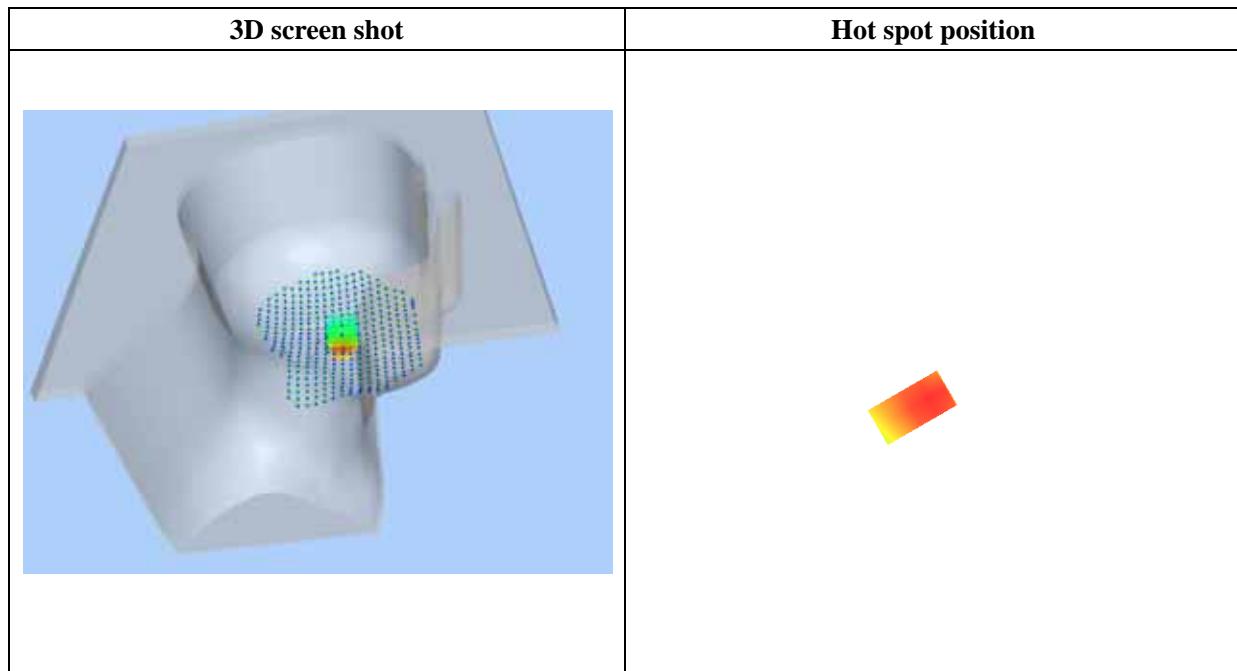
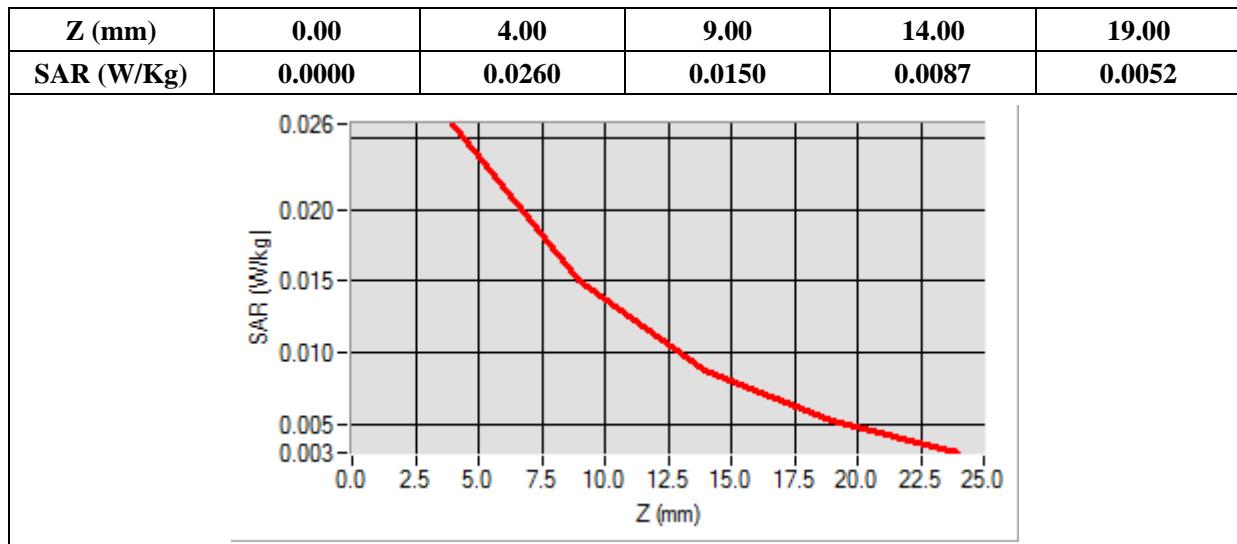
B. SAR Measurement Results

Frequency (MHz)	2506.000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	1.364940
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-25.00, Y=-6.00

SAR 10g (W/Kg)	0.013945
SAR 1g (W/Kg)	0.024393



MEASUREMENT 63

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

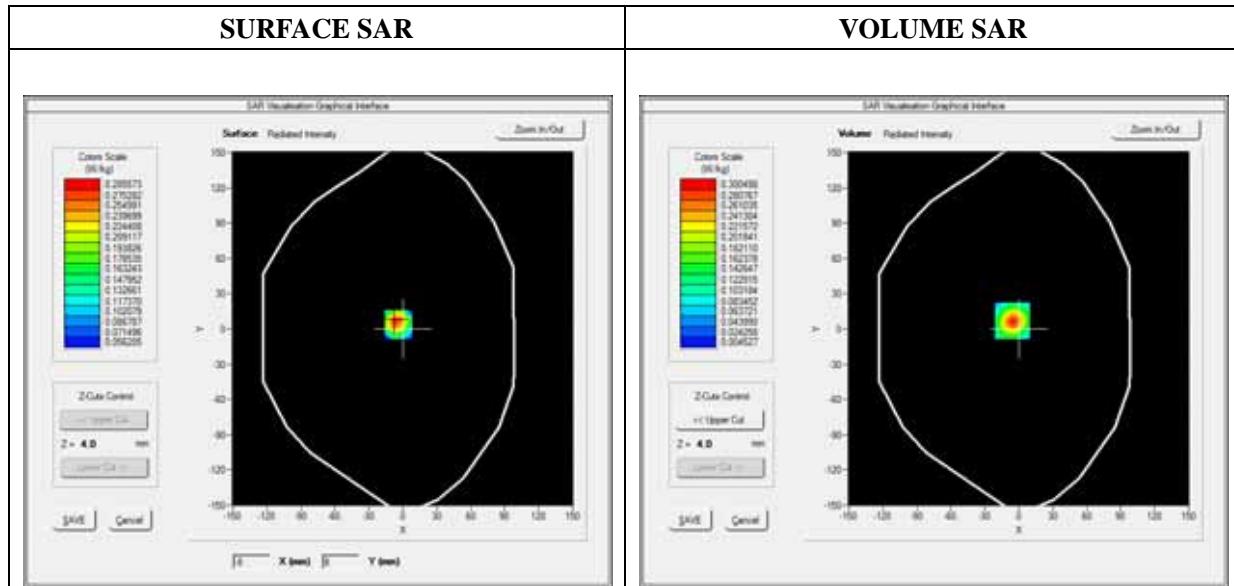
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 41_RMC
Channels	QPSK, 20MHz, Low
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

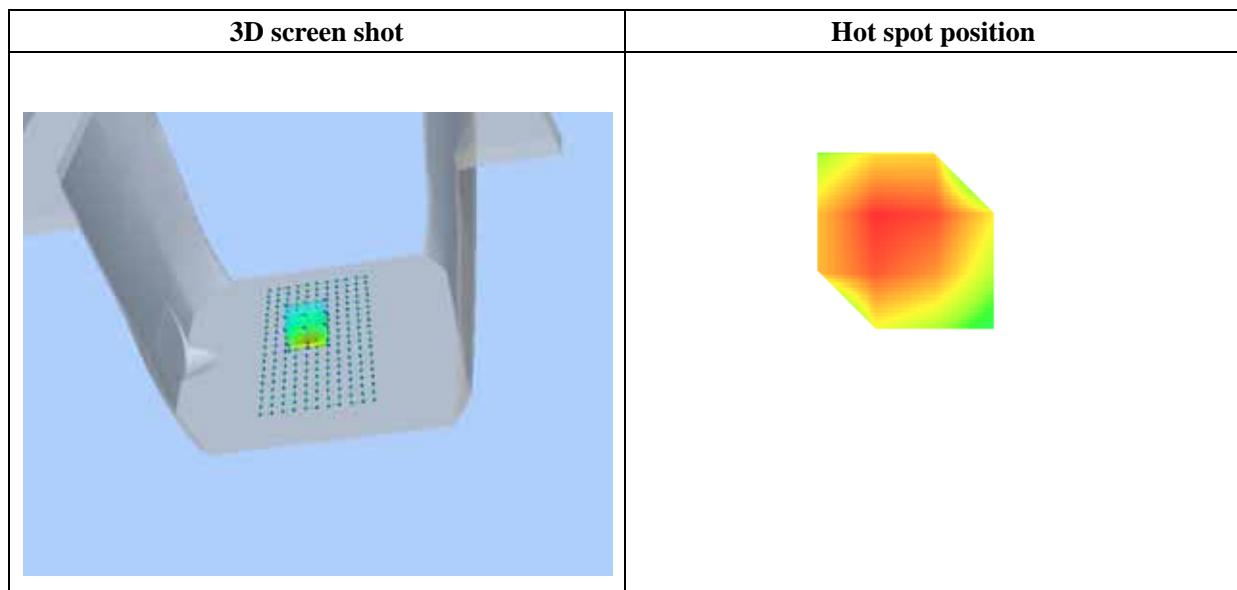
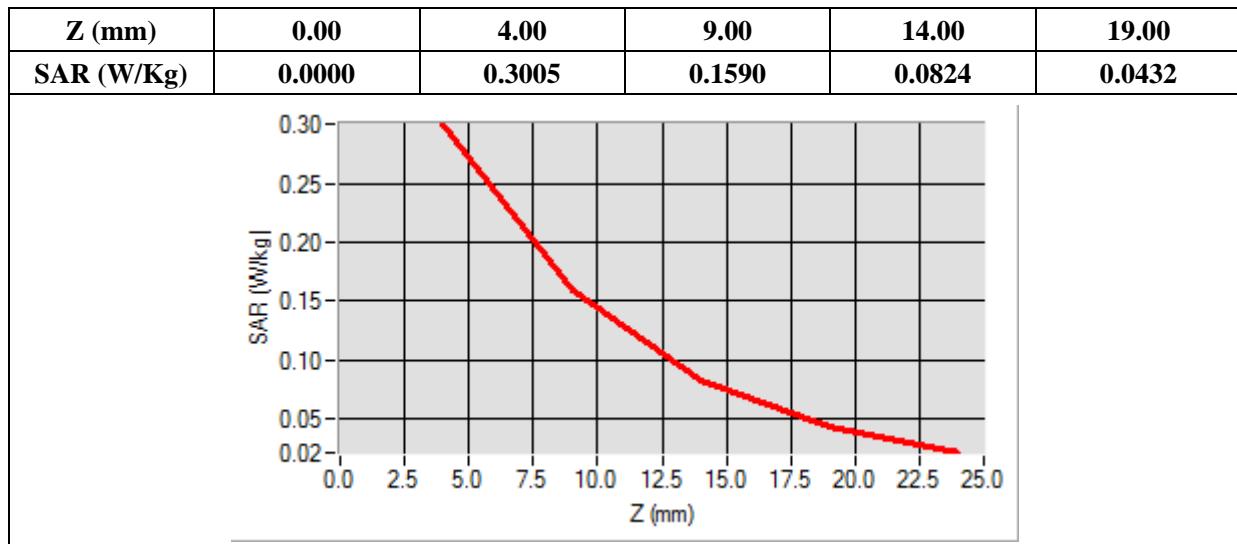
B. SAR Measurement Results

Frequency (MHz)	2506.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	0.909744
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-6.00, Y=7.00

SAR 10g (W/Kg)	0.129881
SAR 1g (W/Kg)	0.269439



MEASUREMENT 64

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

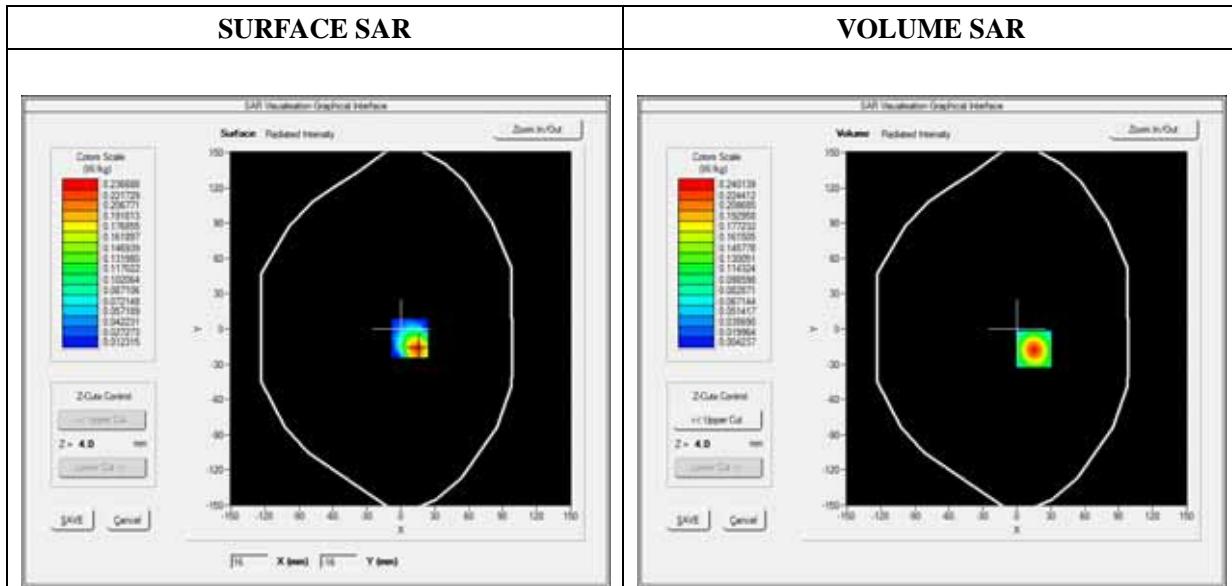
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 41_RMC
Channels	QPSK, 20MHz, Low
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

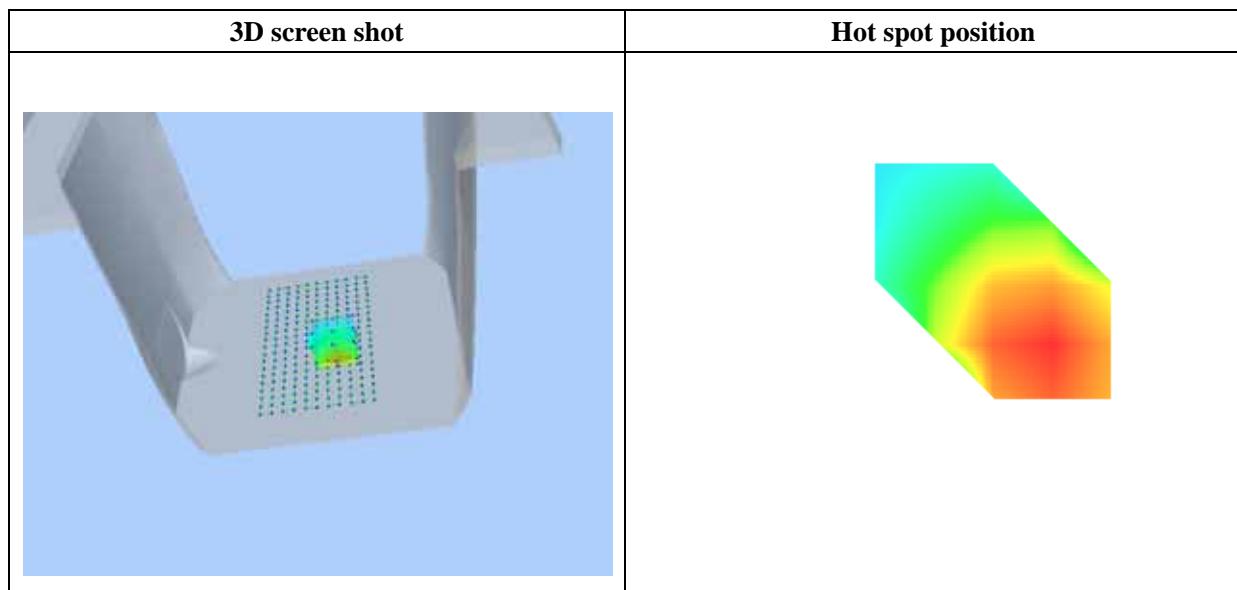
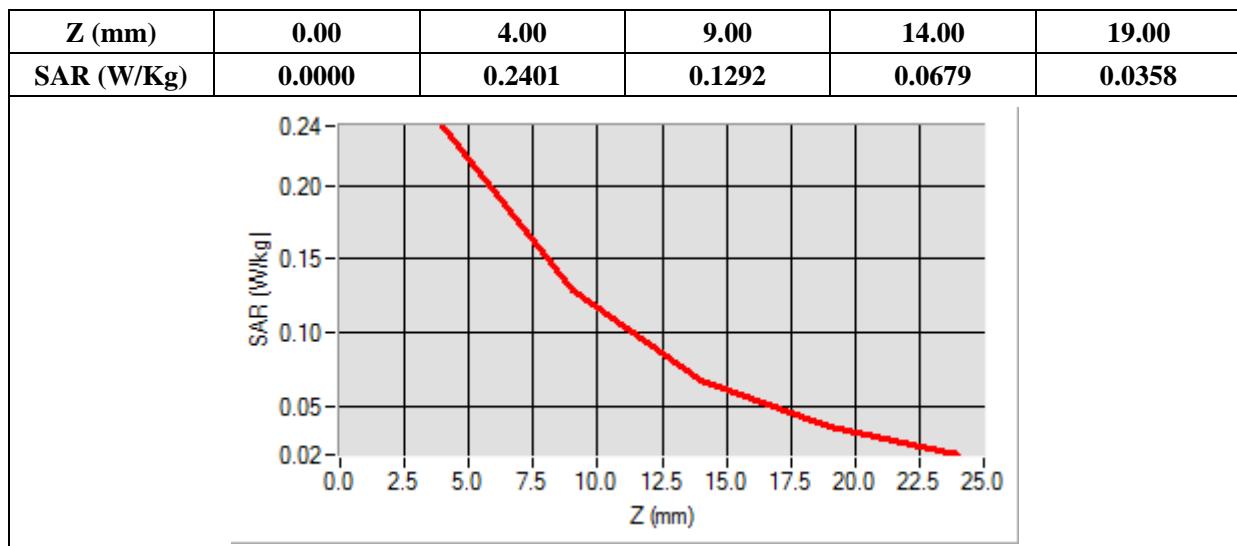
B. SAR Measurement Results

Frequency (MHz)	2506.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	1.383262
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=15.00, Y=-17.00

SAR 10g (W/Kg)	0.108066
SAR 1g (W/Kg)	0.216945



MEASUREMENT 65

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

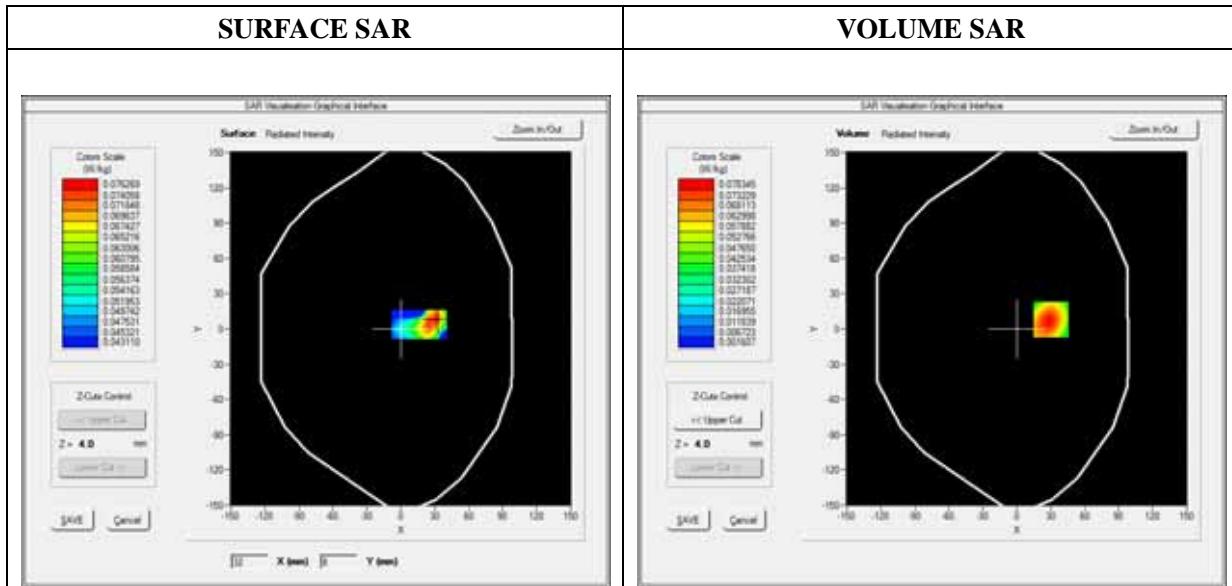
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Bottom Side
Band	LTE Band 41_RMC
Channels	QPSK, 20MHz, Low
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

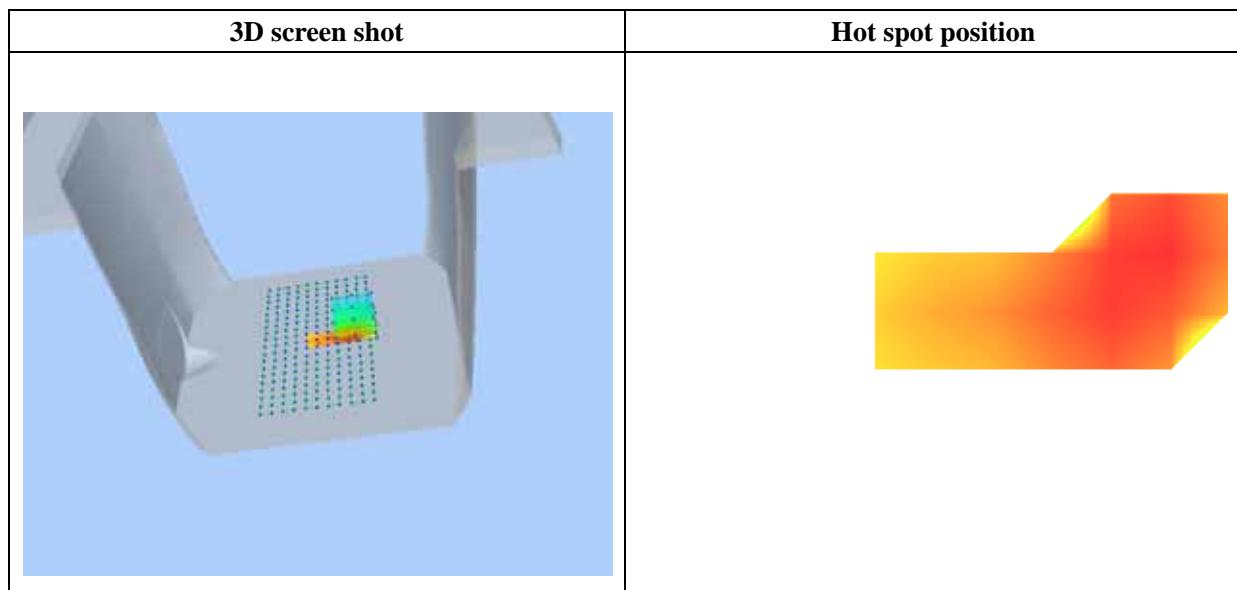
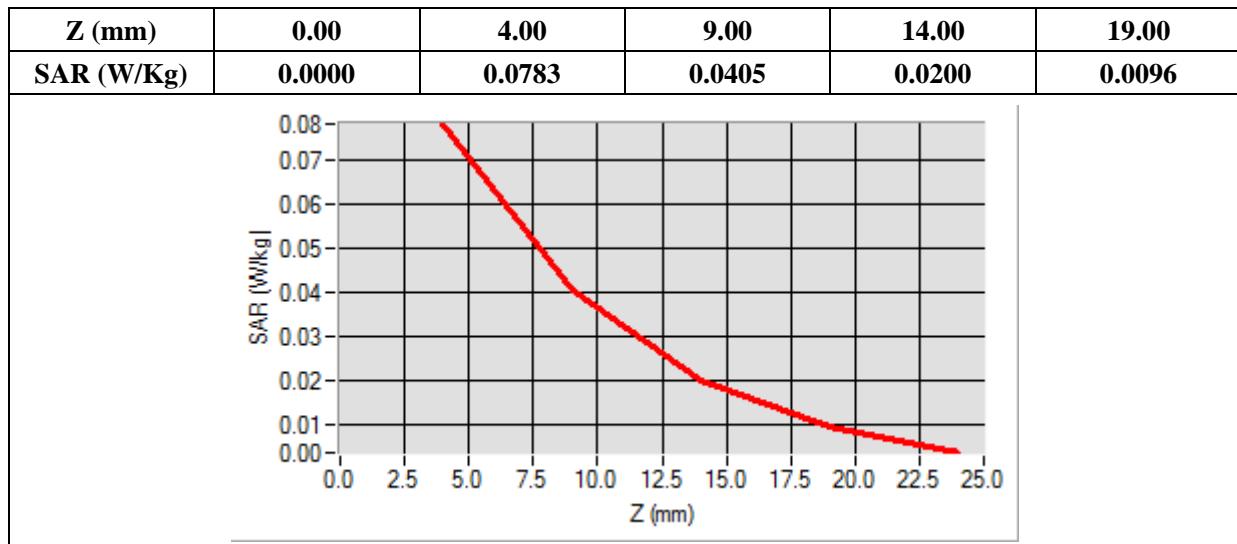
B. SAR Measurement Results

Frequency (MHz)	2506.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	2.49373
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=30.00, Y=8.00

SAR 10g (W/Kg)	0.039733
SAR 1g (W/Kg)	0.073700



MEASUREMENT 66

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

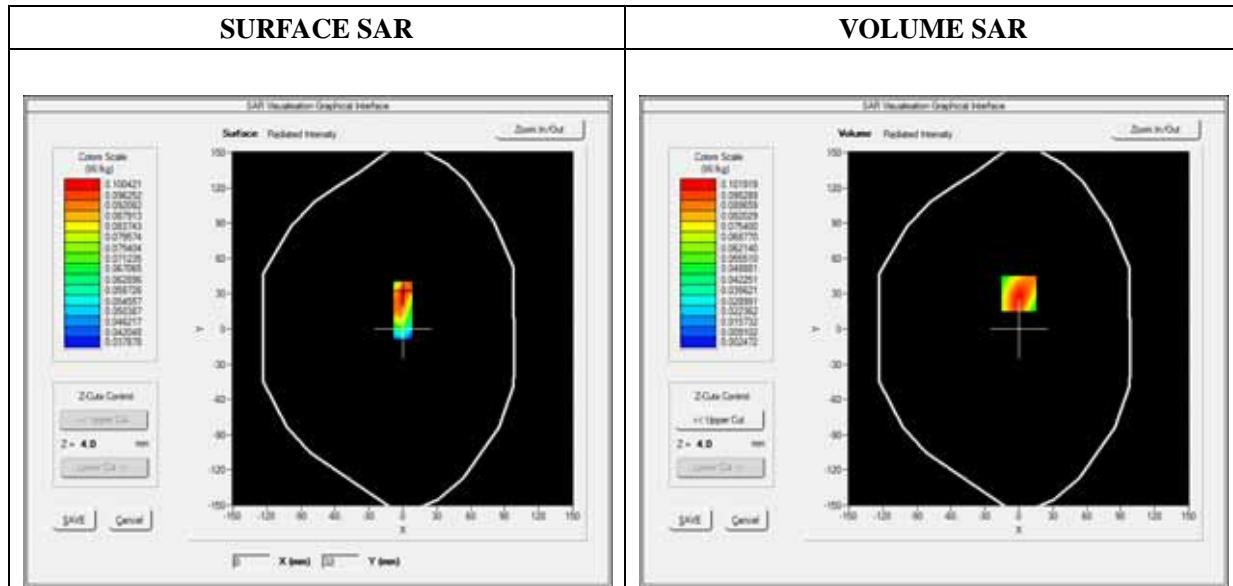
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Right Side
Band	LTE Band 41_RMC
Channels	QPSK, 20MHz, Low
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

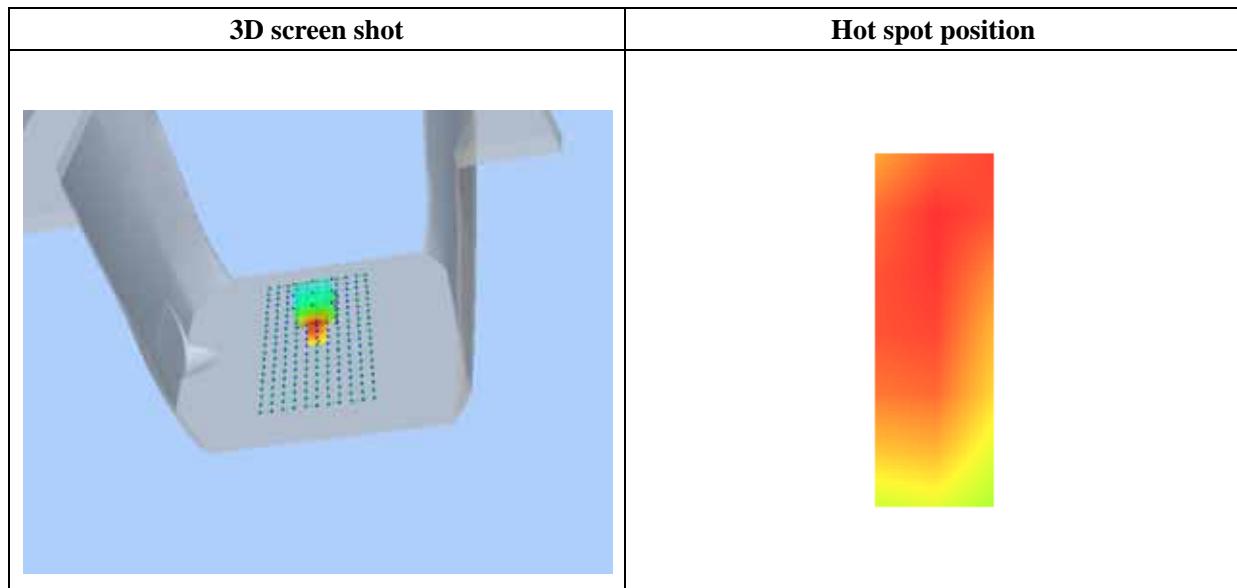
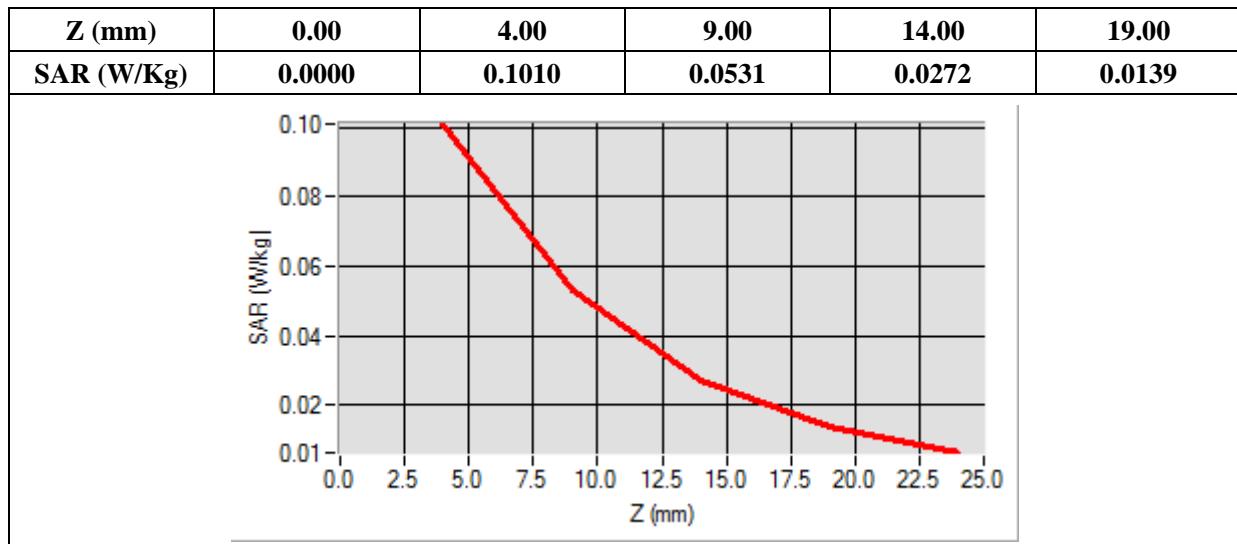
B. SAR Measurement Results

Frequency (MHz)	2506.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	3.244392
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=0.00, Y=30.00

SAR 10g (W/Kg)	0.052178
SAR 1g (W/Kg)	0.095705



MEASUREMENT 67

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

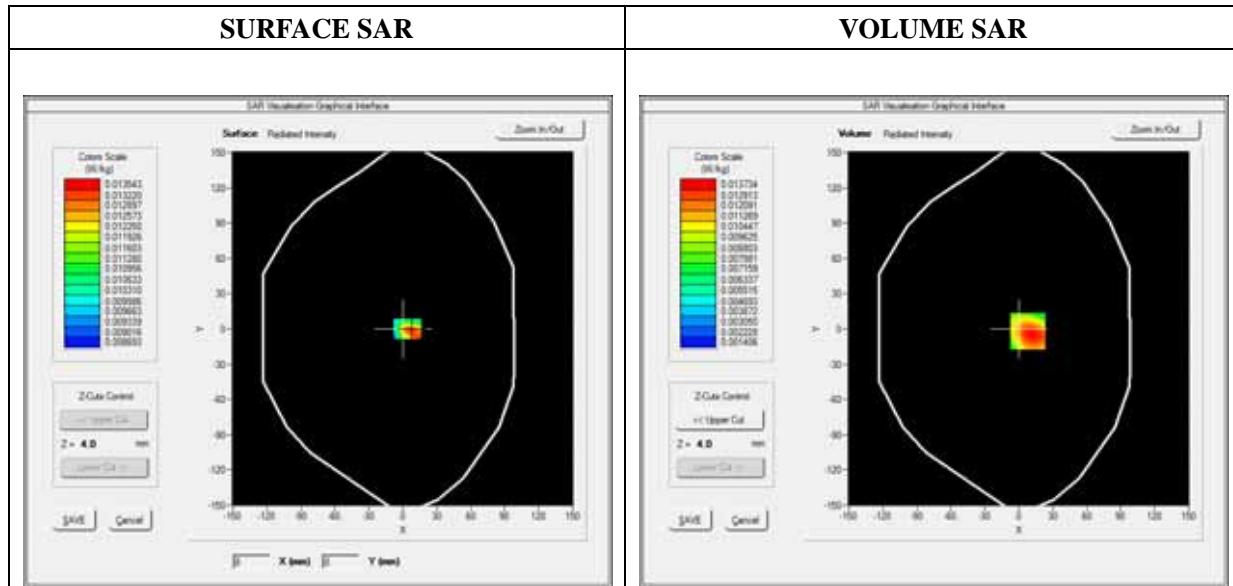
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Left Side
Band	LTE Band 41_RMC
Channels	QPSK, 20MHz, Low
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

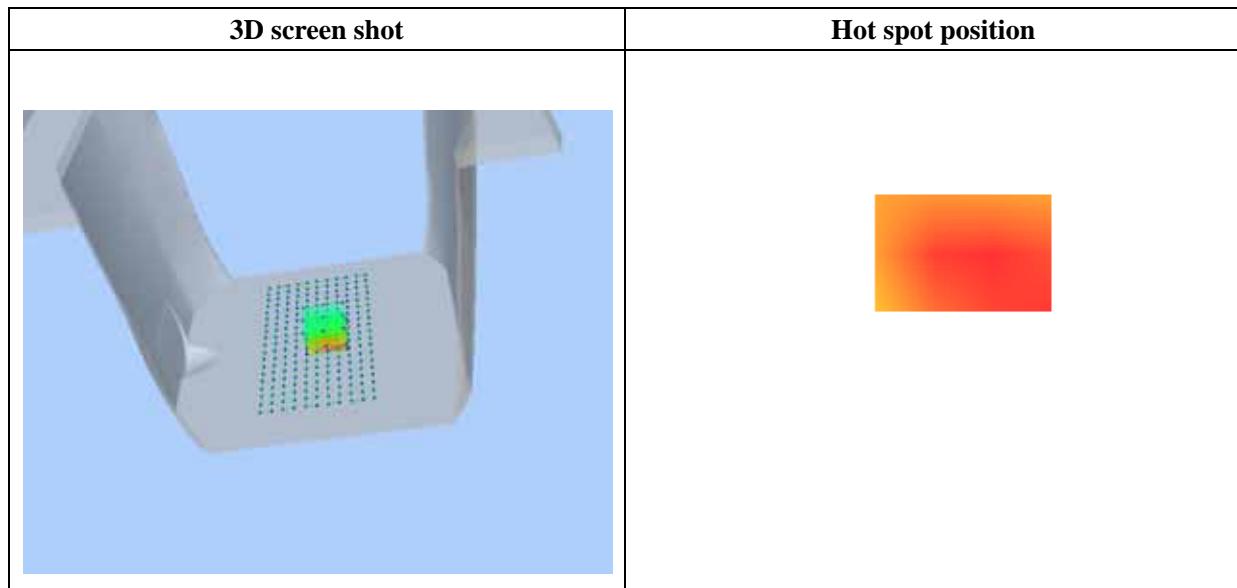
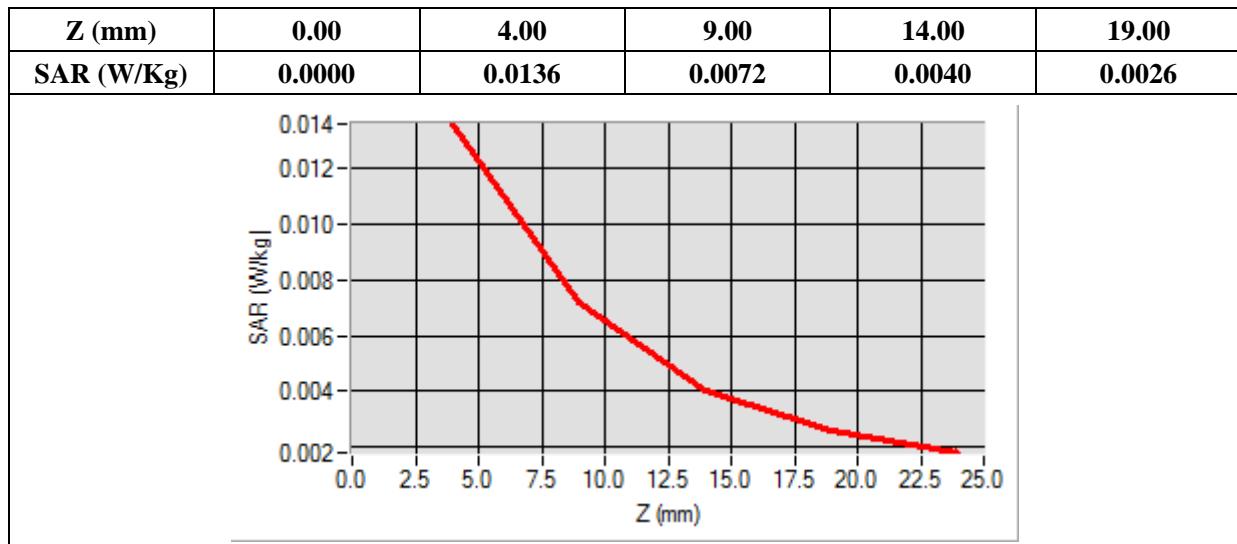
B. SAR Measurement Results

Frequency (MHz)	2506.000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	0.903831
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=8.00, Y=-2.00

SAR 10g (W/Kg)	0.007398
SAR 1g (W/Kg)	0.013142



MEASUREMENT 68

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

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

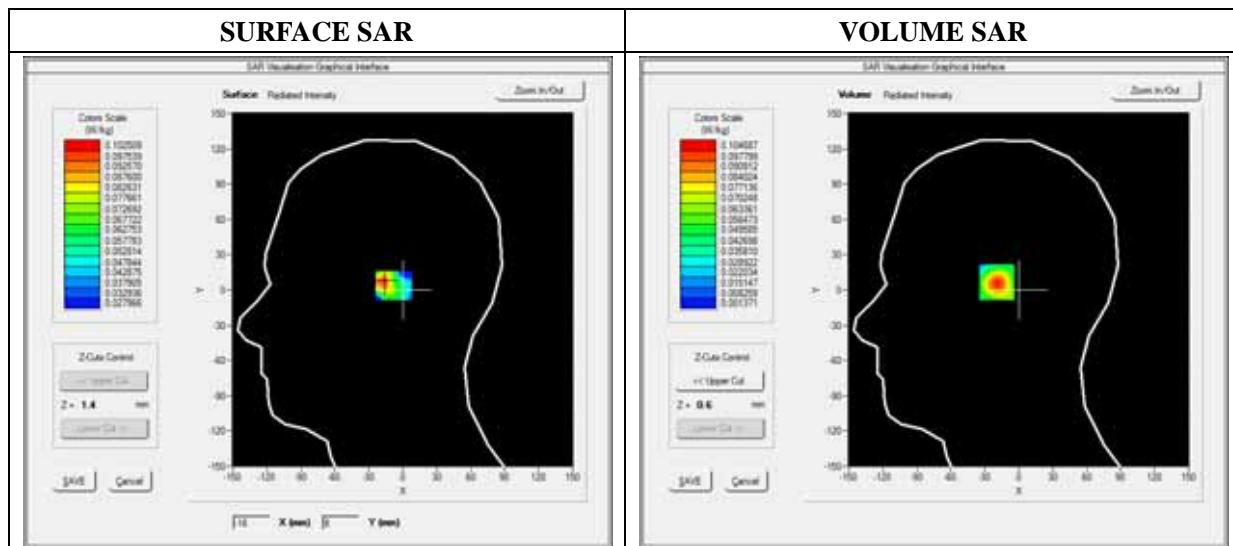
A. Experimental conditions

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

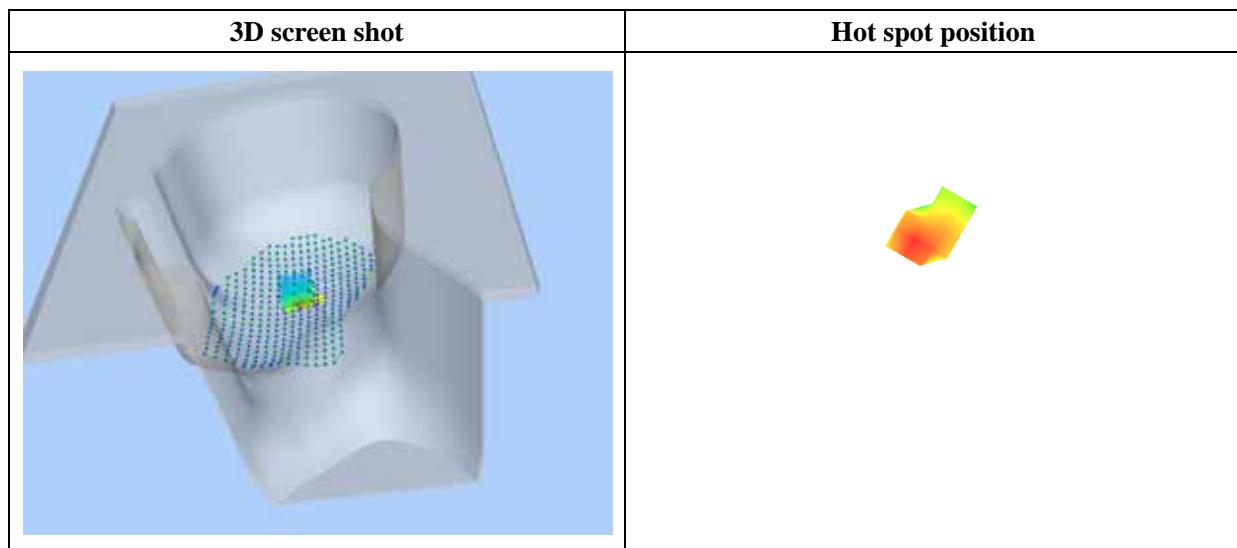
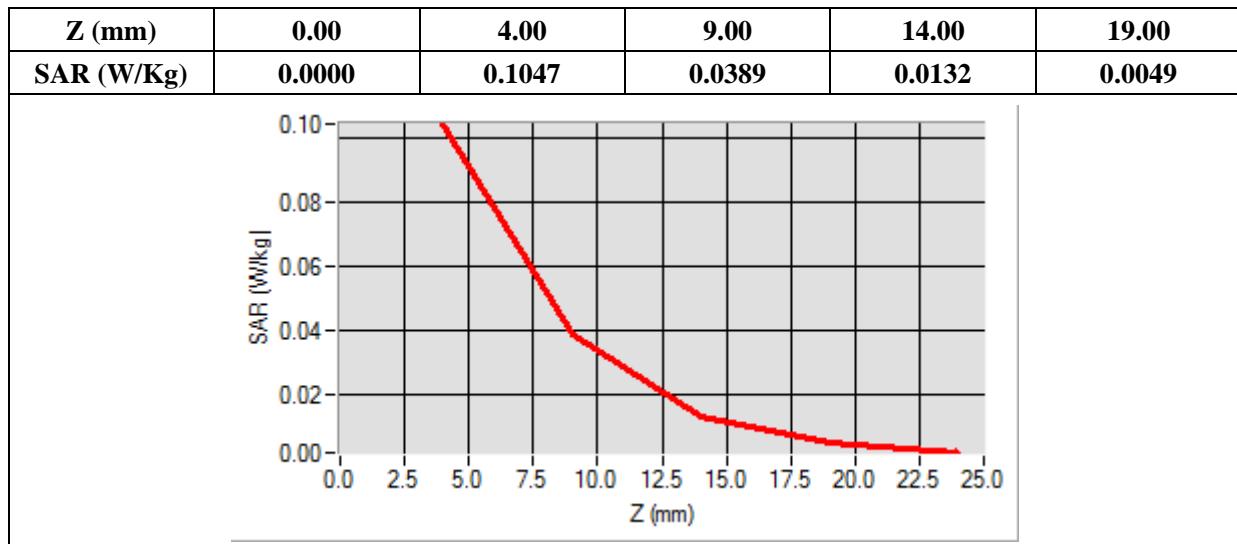
Middle Band SAR (Channel 11)

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	38.600000
Conductivity (S/m)	1.760000
Power Variation (%)	3.234772
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-18.00, Y=7.00

SAR 10g (W/Kg)	0.042287
SAR 1g (W/Kg)	0.096808



MEASUREMENT 69

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

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

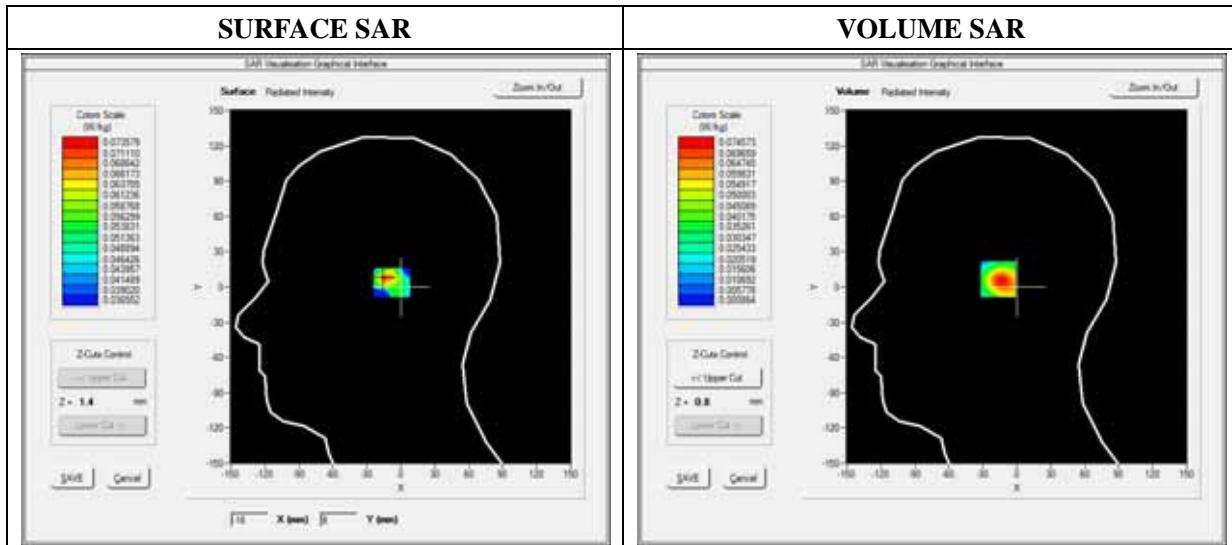
A. Experimental conditions

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

B. SAR Measurement Results

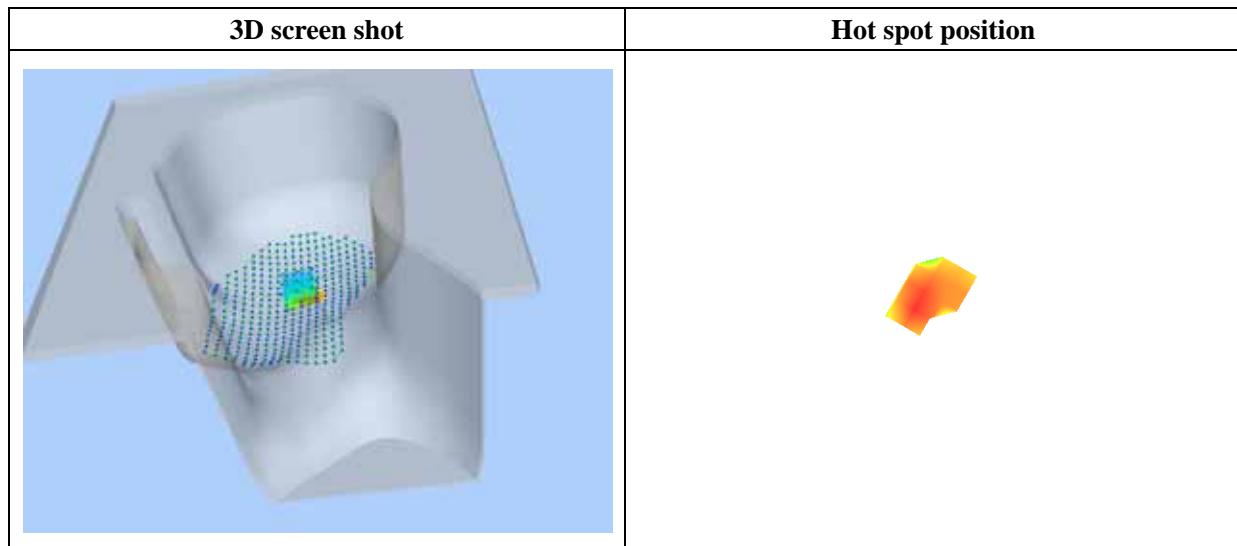
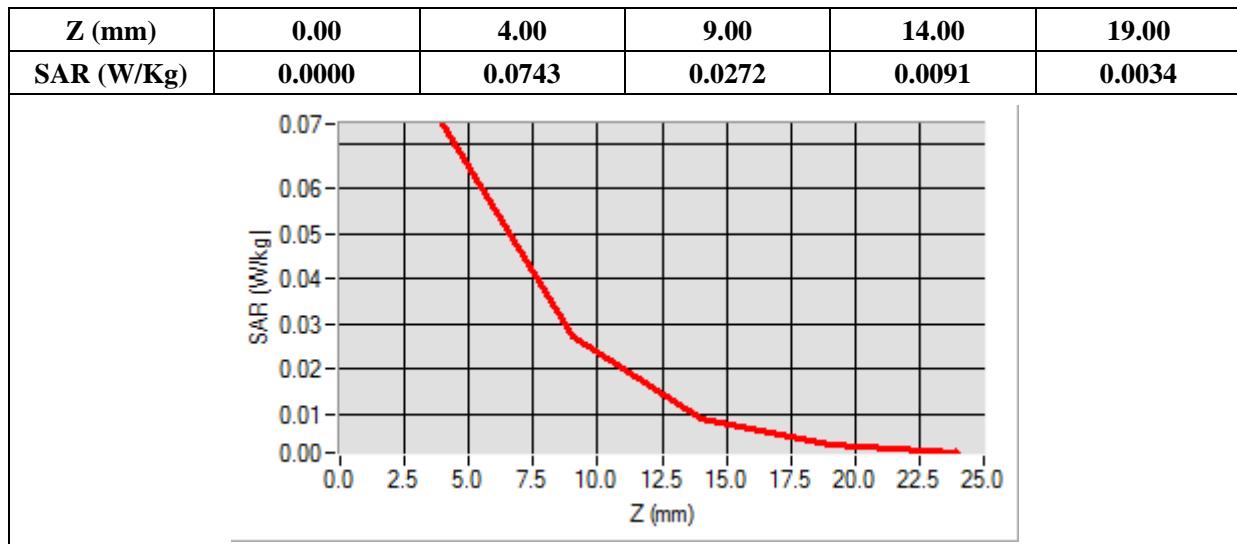
Middle Band SAR (Channel 11)

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	38.600000
Conductivity (S/m)	1.760000
Power Variation (%)	0.241434
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-15.00, Y=7.00

SAR 10g (W/Kg)	0.031914
SAR 1g (W/Kg)	0.071453



MEASUREMENT 70

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

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

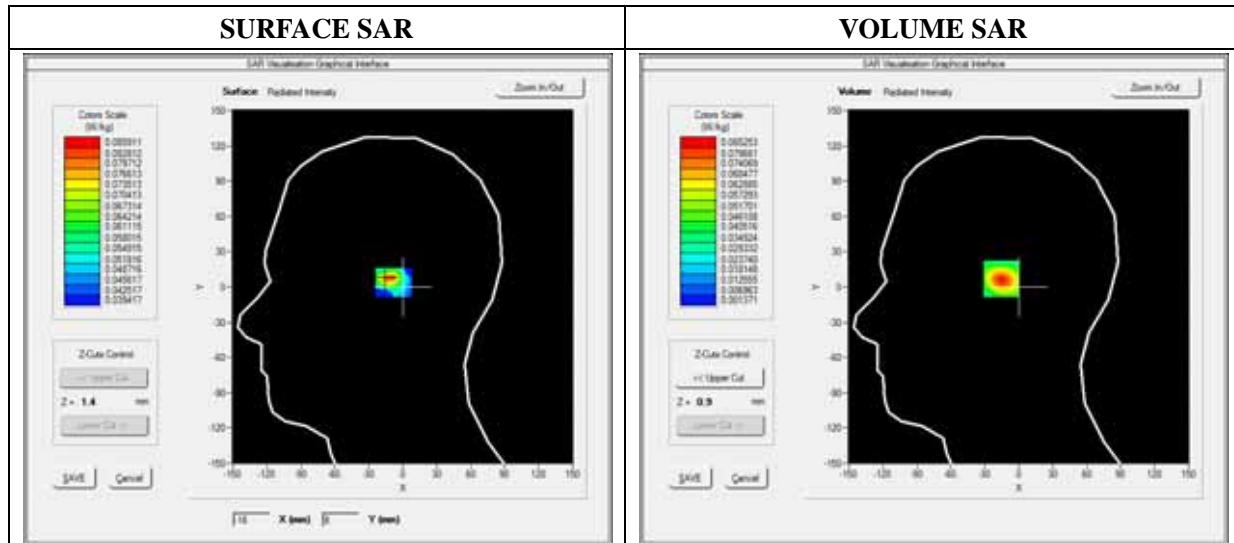
A. Experimental conditions

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

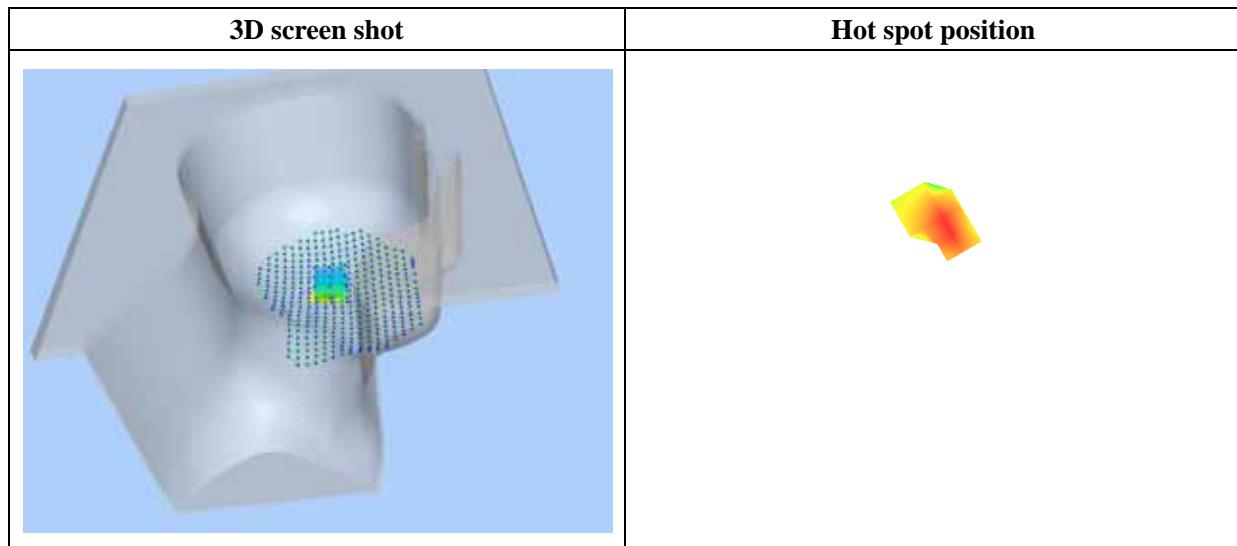
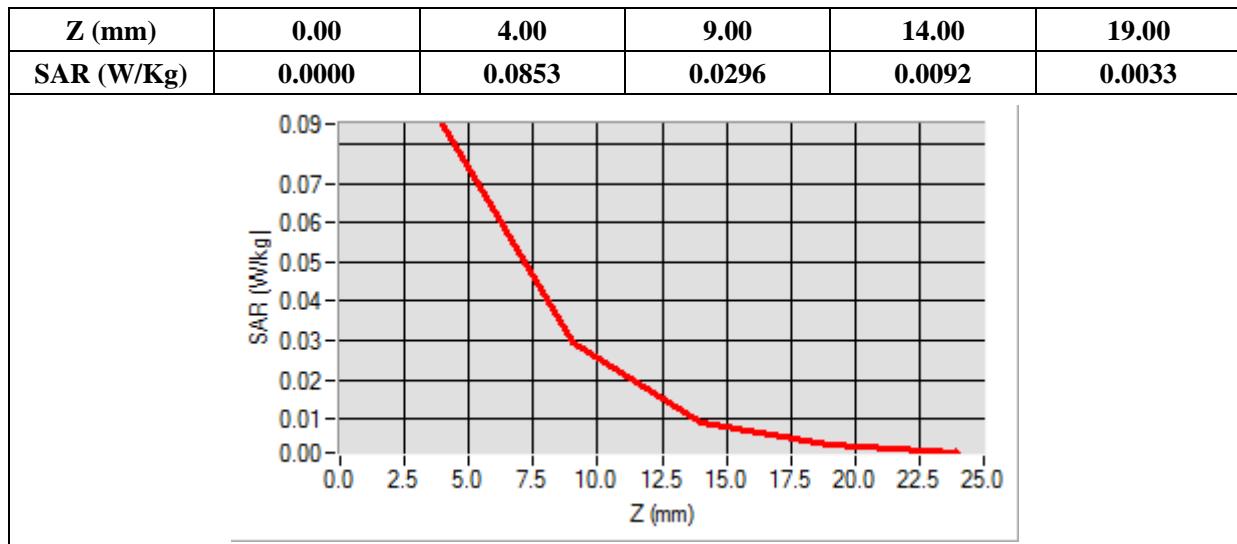
Middle Band SAR (Channel 11)

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	38.600000
Conductivity (S/m)	1.760000
Power Variation (%)	0.384732
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-14.00, Y=7.00

SAR 10g (W/Kg)	0.034923
SAR 1g (W/Kg)	0.079819



MEASUREMENT 71

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

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

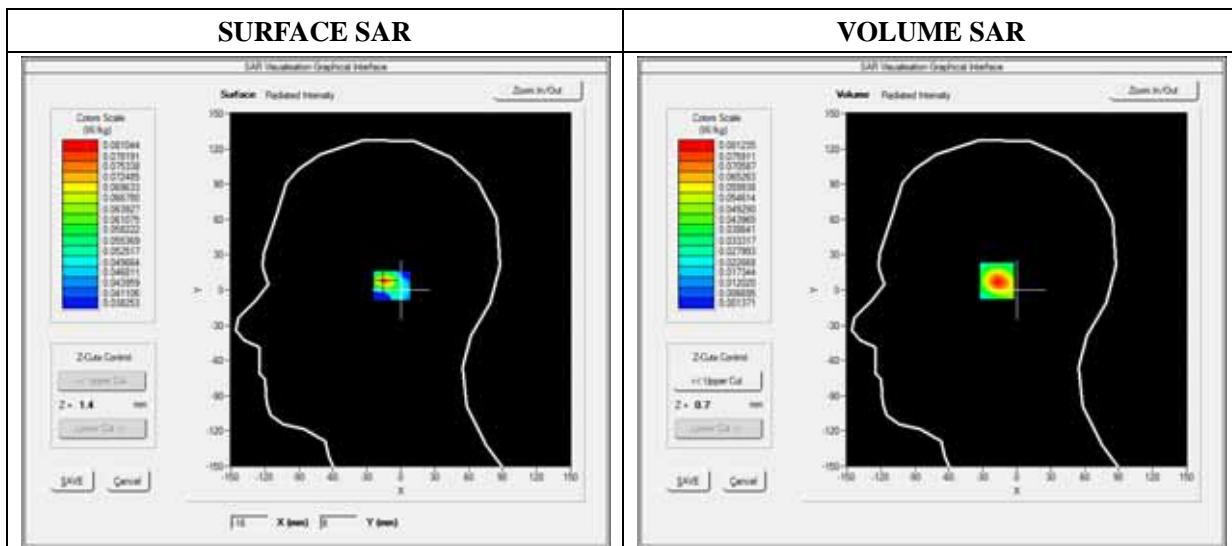
A. Experimental conditions

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

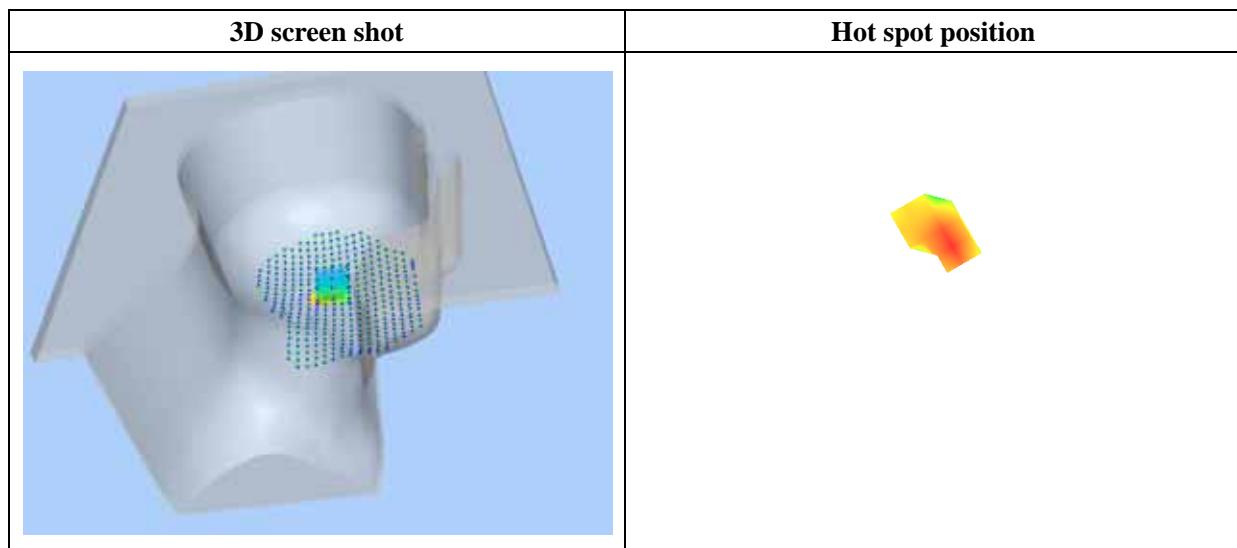
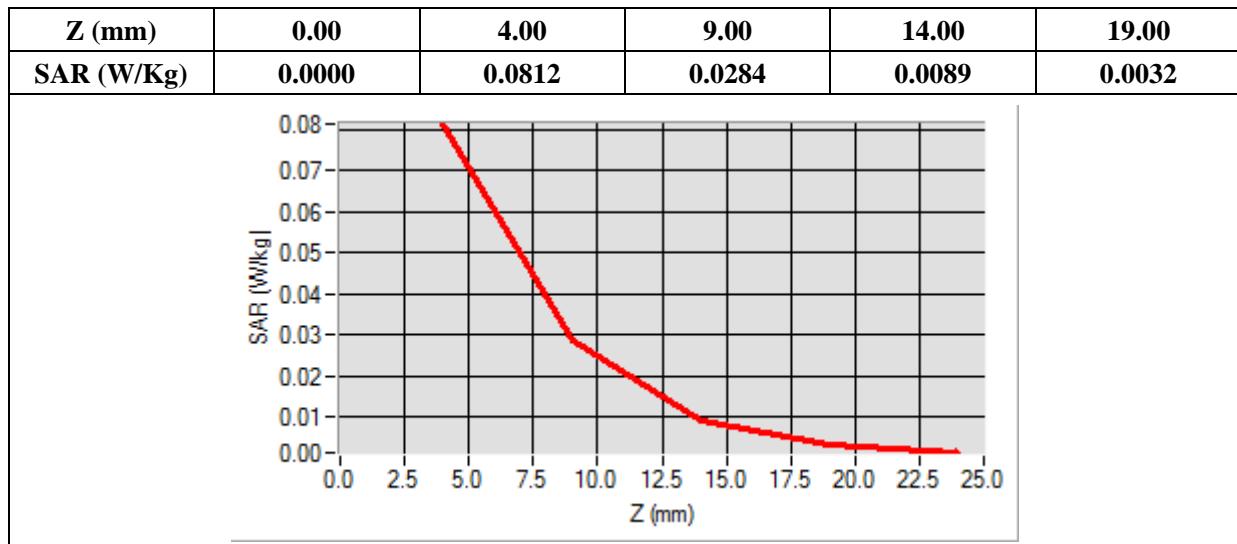
Middle Band SAR (Channel 11)

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	38.600000
Conductivity (S/m)	1.760000
Power Variation (%)	1.422243
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-16.00, Y=8.00

SAR 10g (W/Kg)	0.032815
SAR 1g (W/Kg)	0.075484



MEASUREMENT 72

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

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

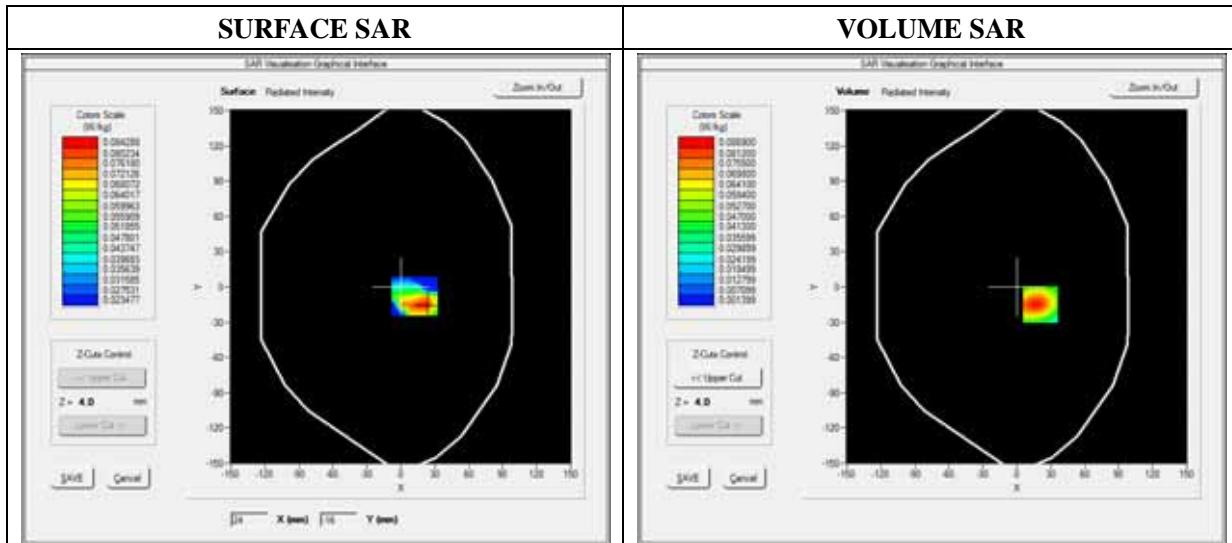
A. Experimental conditions

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

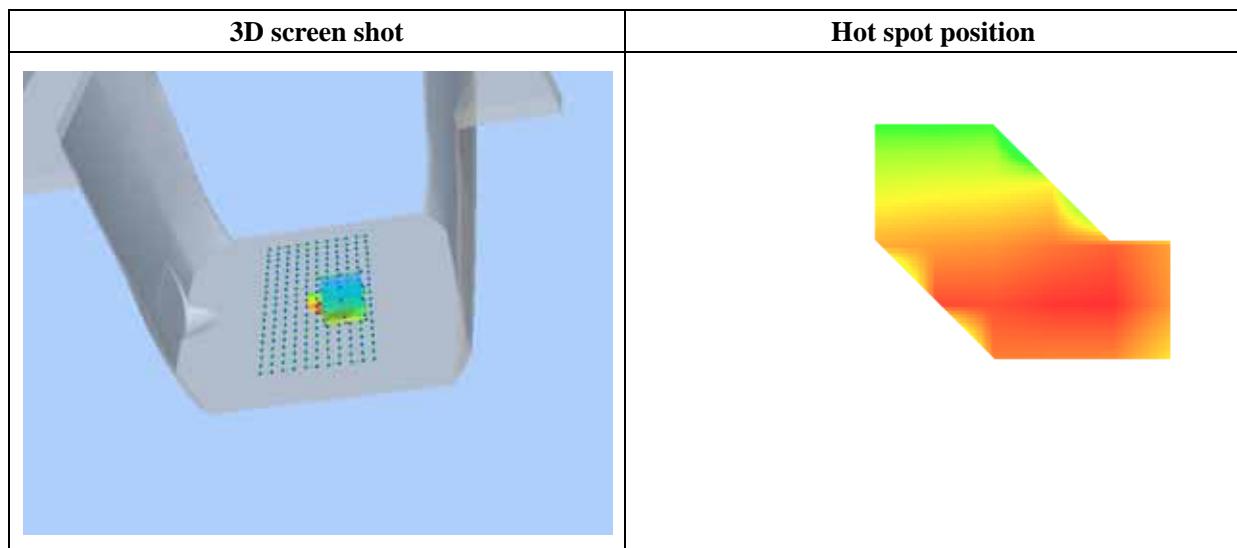
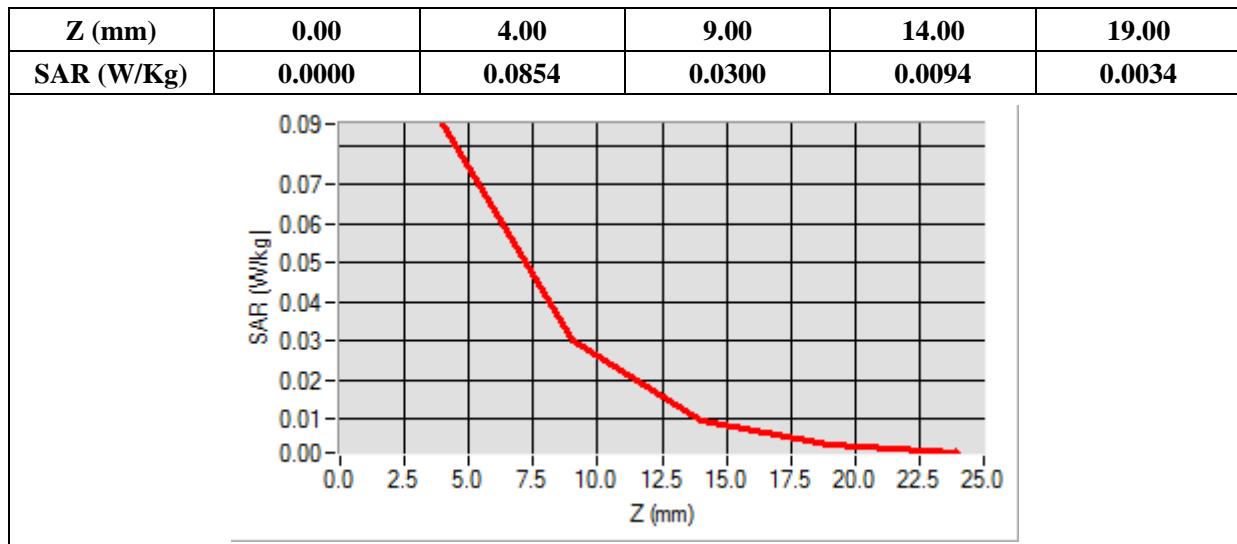
Middle Band SAR (Channel 11)

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	52.300000
Conductivity (S/m)	2.000000
Power Variation (%)	2.492743
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=21.00, Y=-15.00

SAR 10g (W/Kg)	0.037678
SAR 1g (W/Kg)	0.082678



MEASUREMENT 73

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

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

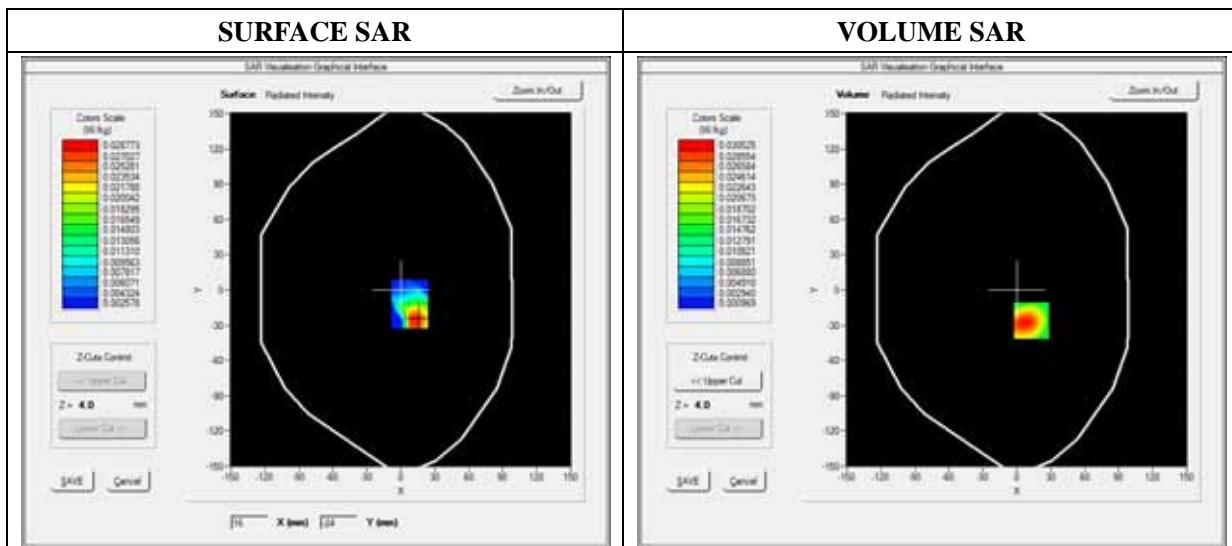
A. Experimental conditions

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

B. SAR Measurement Results

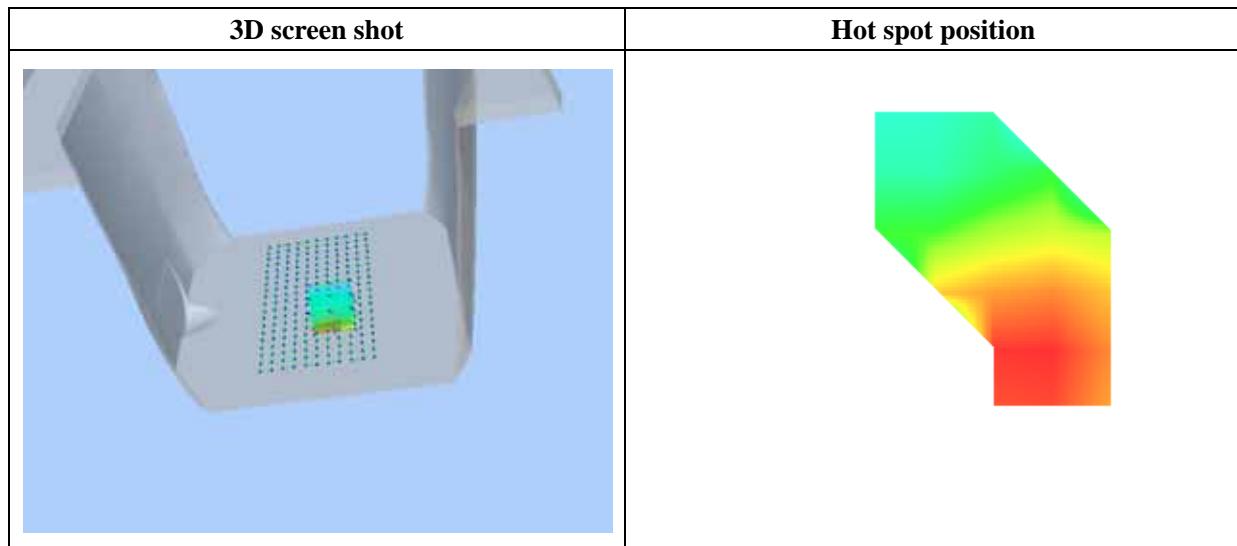
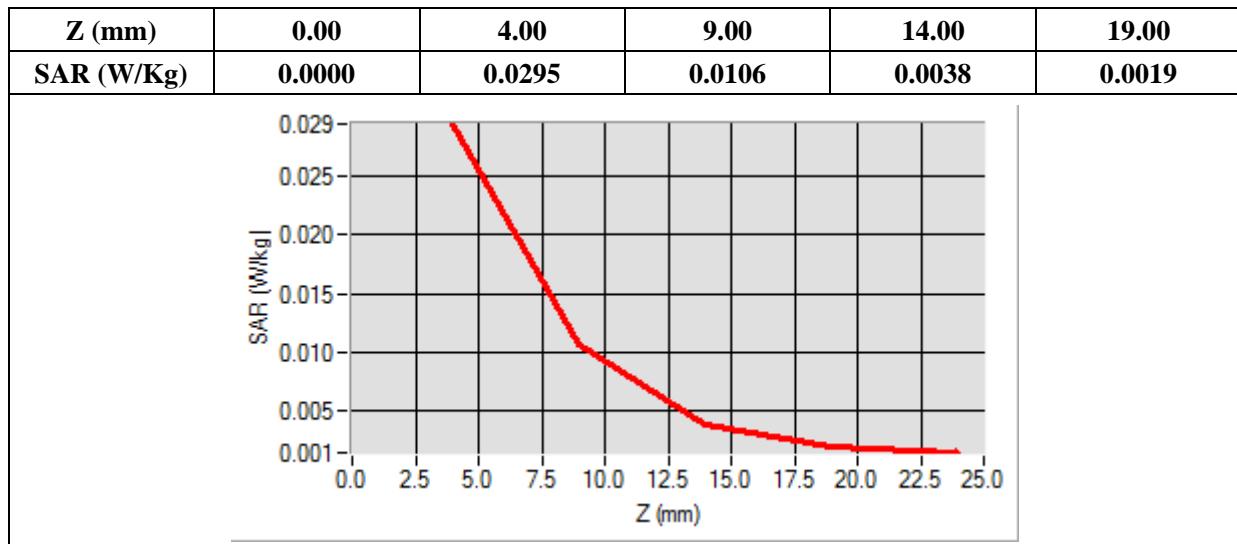
Middle Band SAR (Channel 11)

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	52.300000
Conductivity (S/m)	2.000000
Power Variation (%)	2.521214
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=13.00, Y=-26.00

SAR 10g (W/Kg)	0.013854
SAR 1g (W/Kg)	0.029408



MEASUREMENT 74

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

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

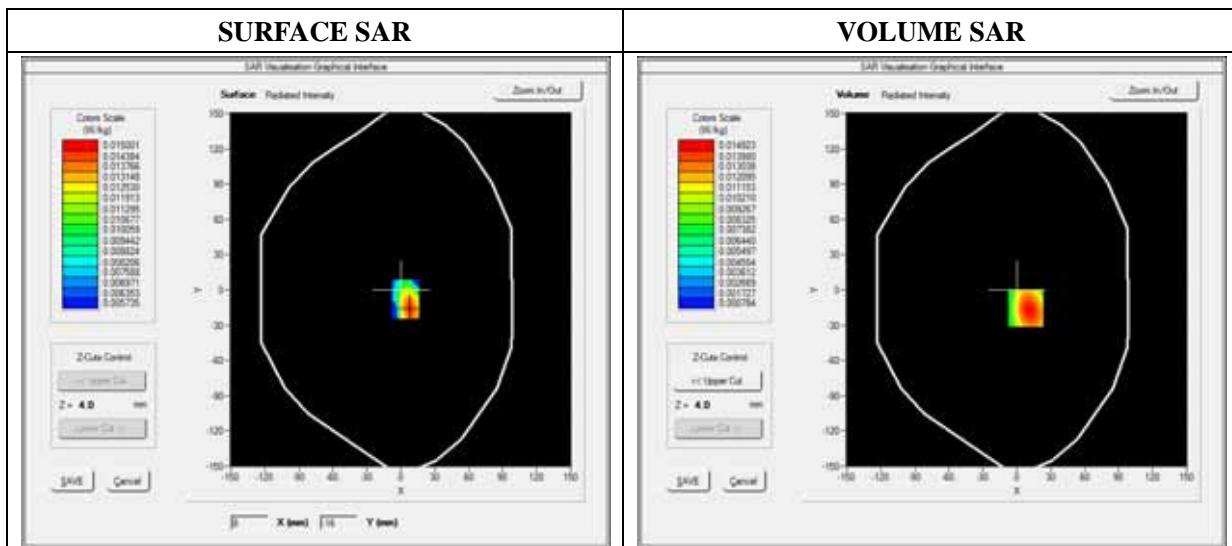
A. Experimental conditions

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

B. SAR Measurement Results

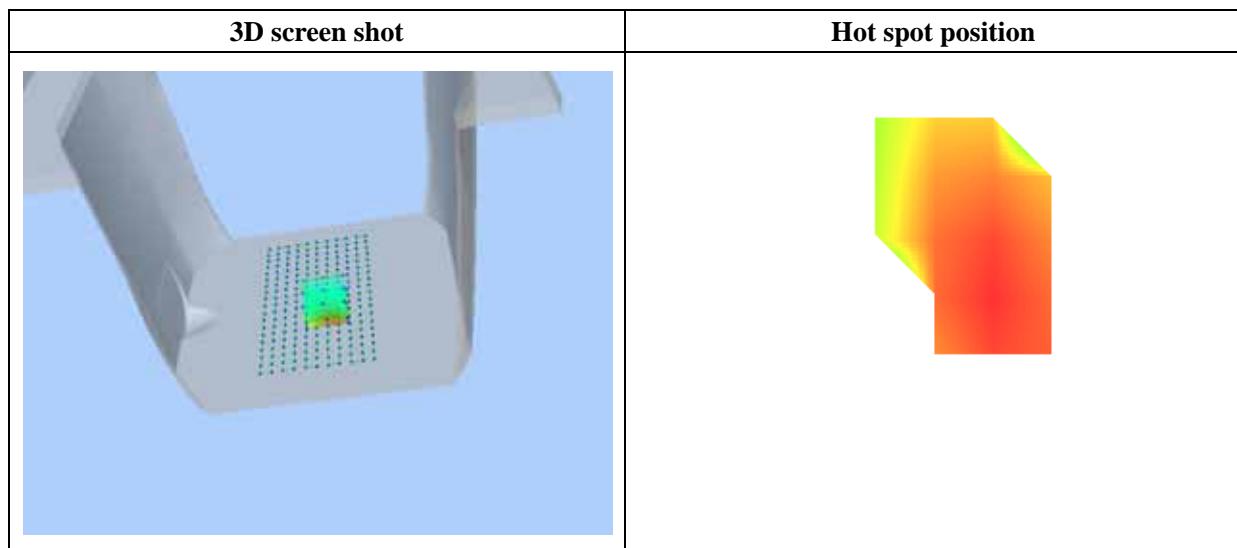
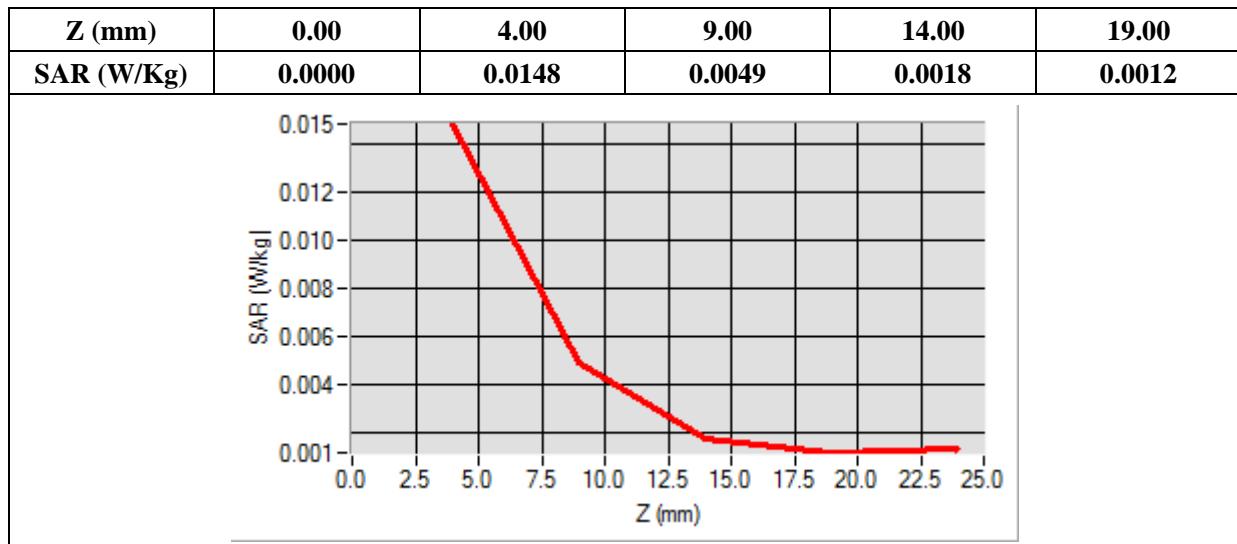
Middle Band SAR (Channel 11)

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	52.300000
Conductivity (S/m)	2.000000
Power Variation (%)	2.498373
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=8.00, Y=-16.00

SAR 10g (W/Kg)	0.007123
SAR 1g (W/Kg)	0.014803



MEASUREMENT 75

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

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

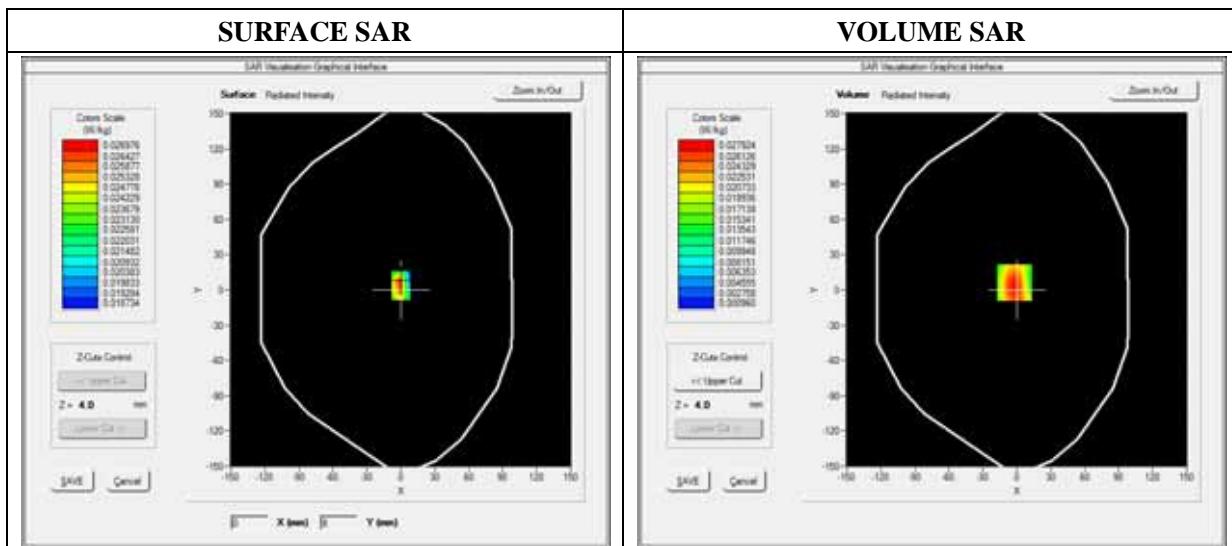
A. Experimental conditions

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

B. SAR Measurement Results

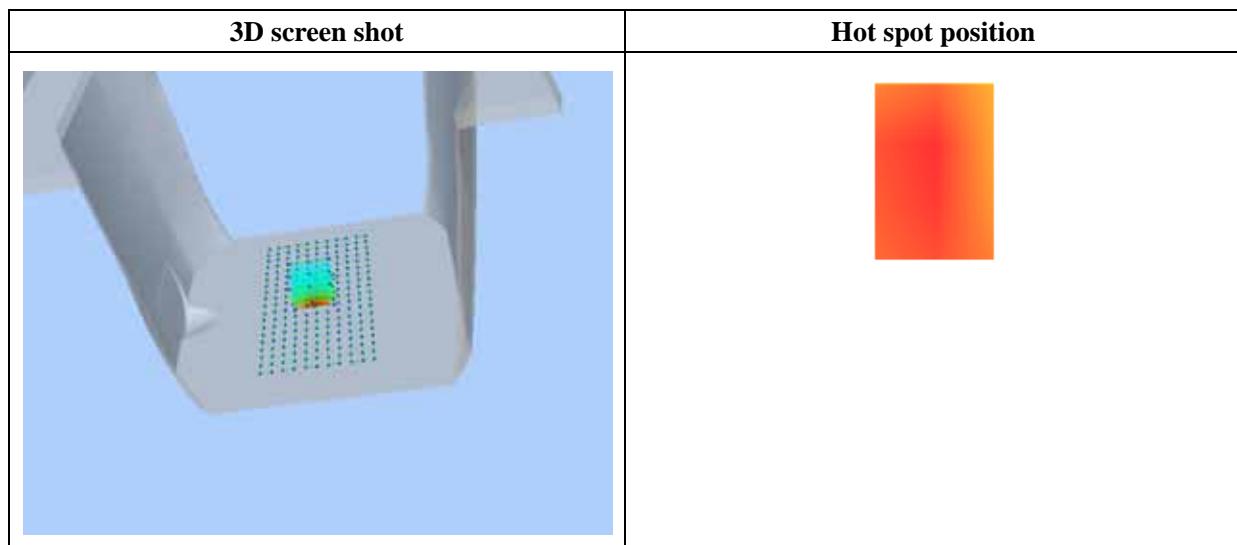
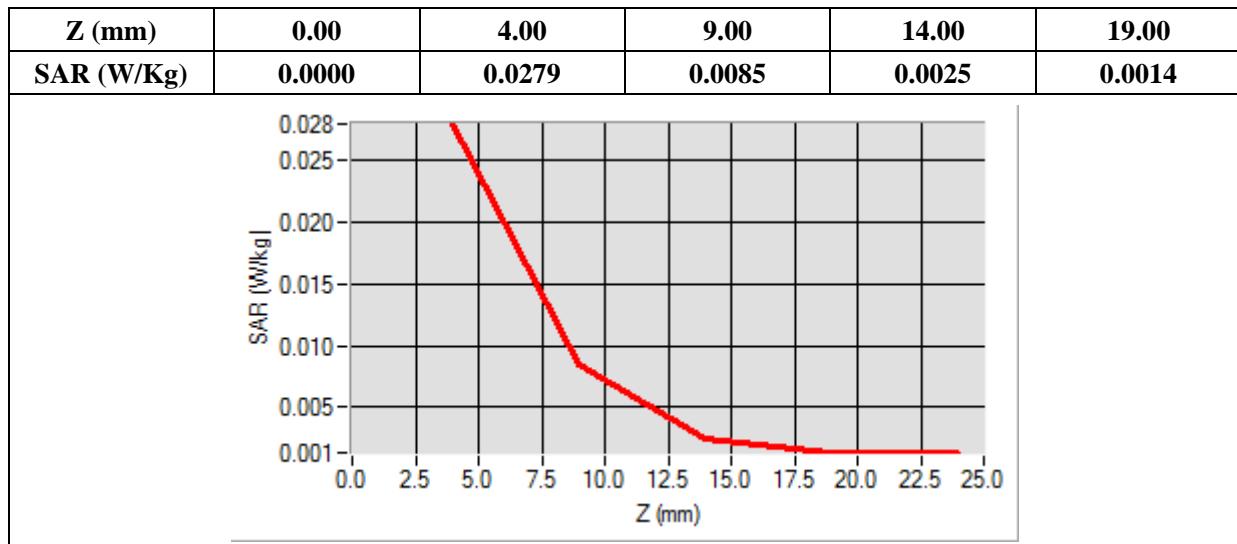
Middle Band SAR (Channel 11)

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	52.300000
Conductivity (S/m)	2.000000
Power Variation (%)	3.244224
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-2.00, Y=6.00

SAR 10g (W/Kg)	0.012549
SAR 1g (W/Kg)	0.027194



MEASUREMENT 96

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

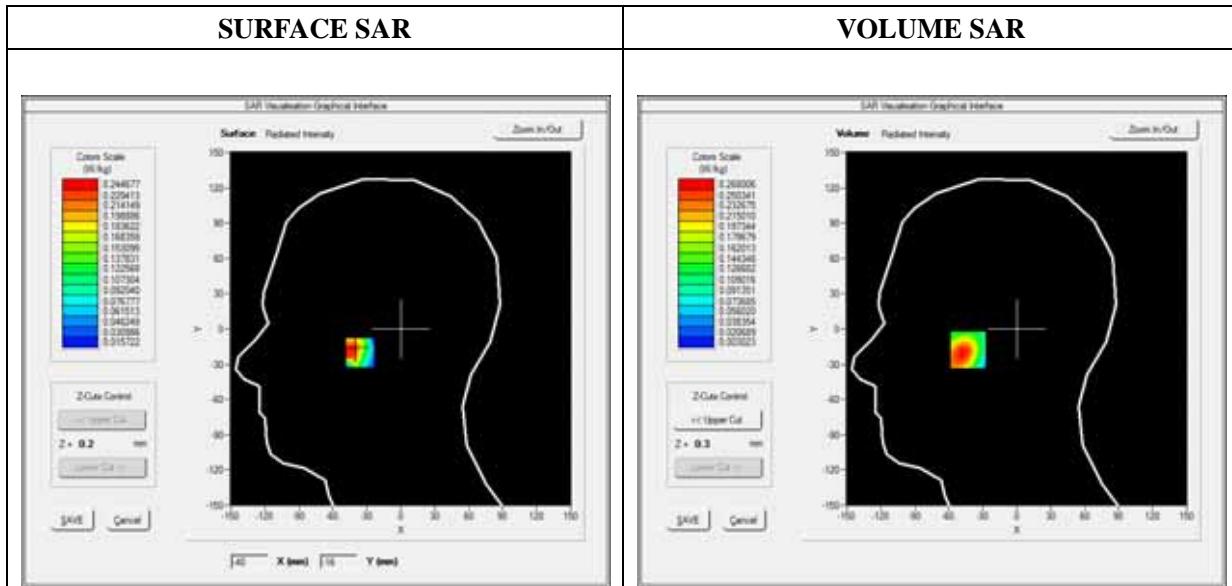
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	LTE Band 7_RMC
Channels	QPSK, 5MHz, Middle
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

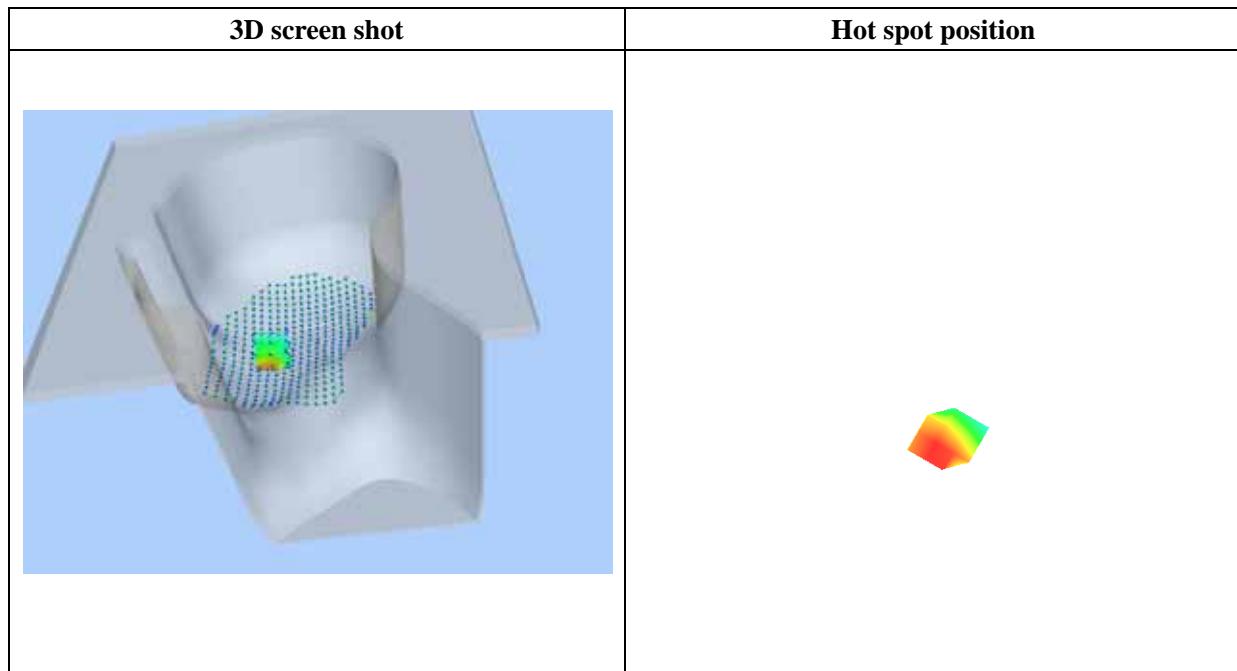
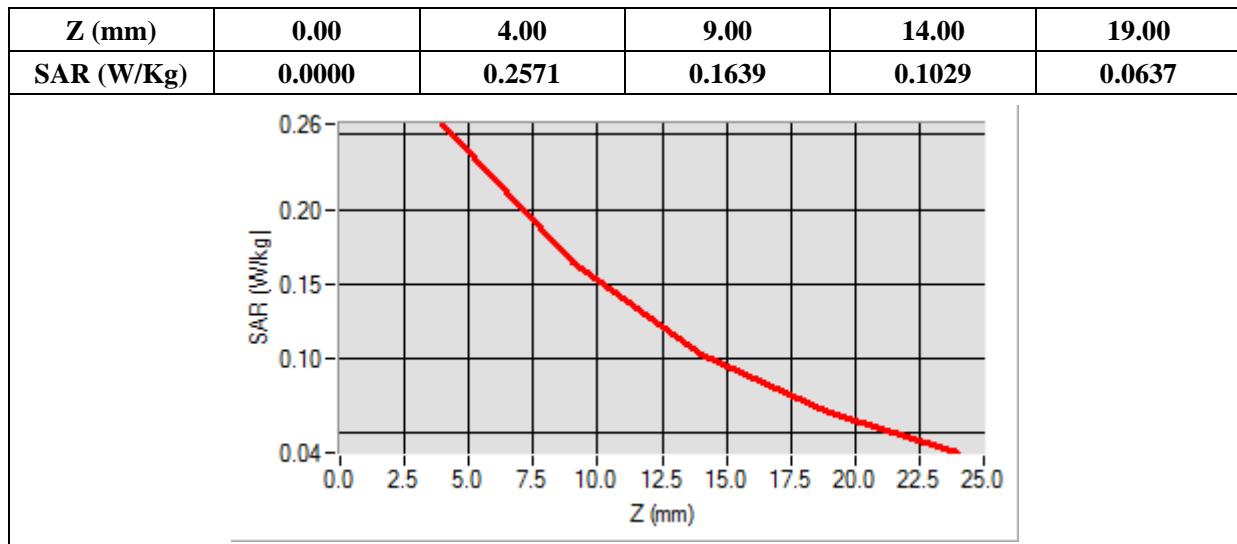
B. SAR Measurement Results

Frequency (MHz)	2535.0000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	1.165345
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-43.00, Y=-18.00

SAR 10g (W/Kg)	0.144579
SAR 1g (W/Kg)	0.251818



MEASUREMENT 97

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

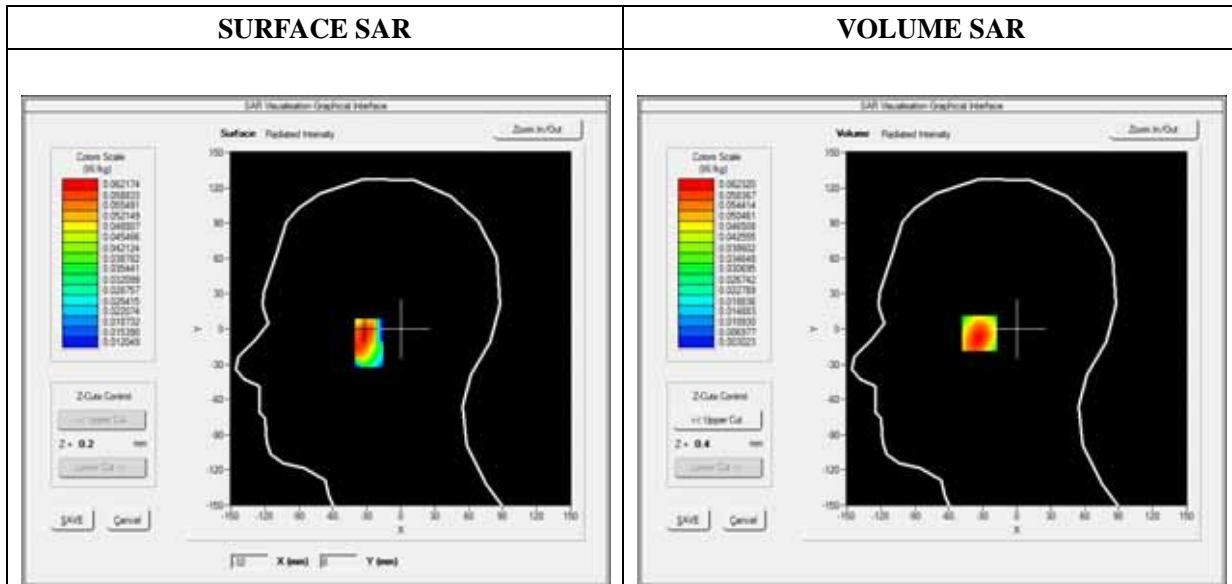
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	LTE Band 7_RMC
Channels	QPSK, 5MHz, Middle
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

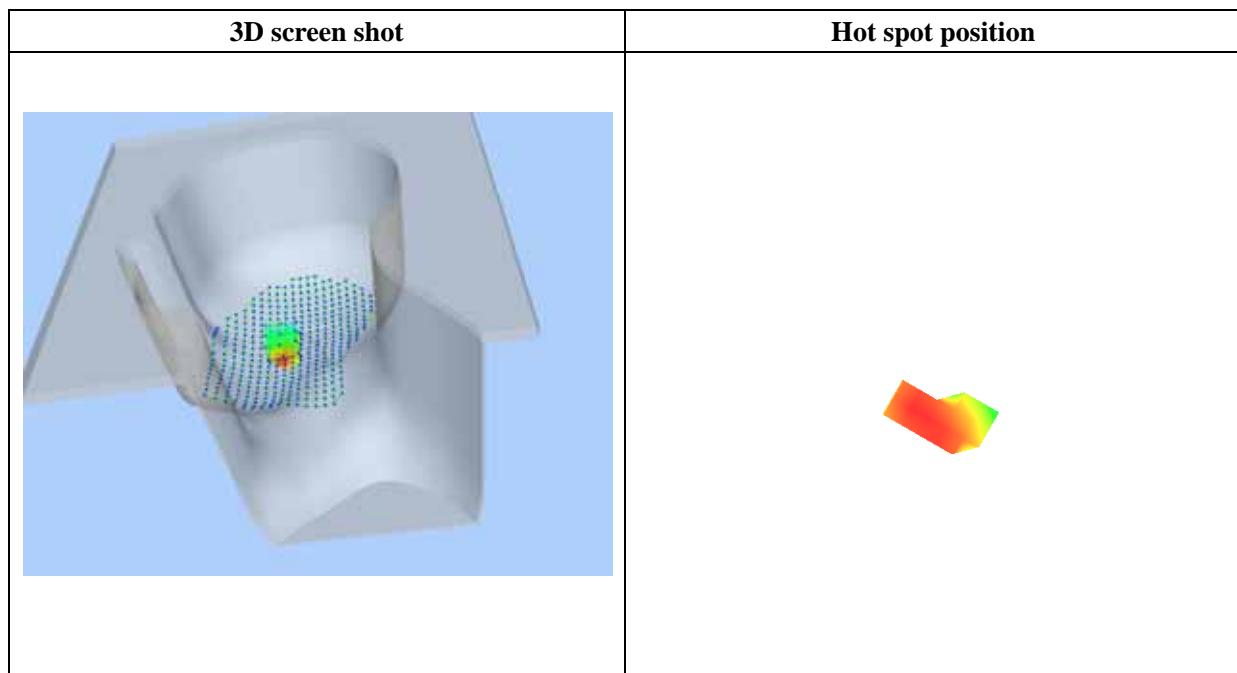
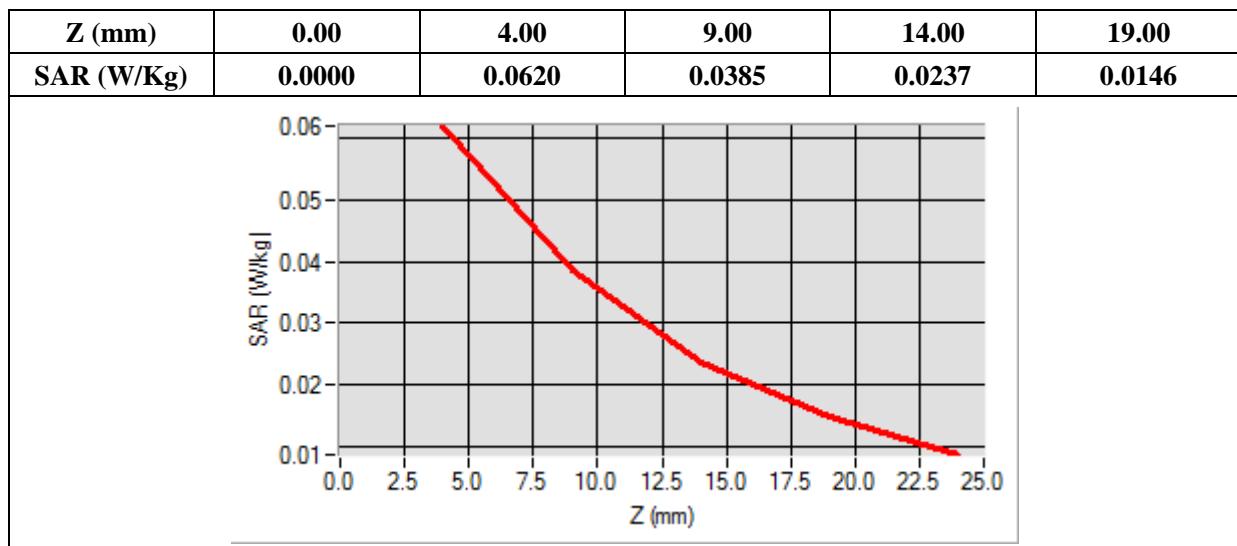
B. SAR Measurement Results

Frequency (MHz)	2535.0000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	2.498277
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-32.00, Y=-3.00

SAR 10g (W/Kg)	0.035306
SAR 1g (W/Kg)	0.058696



MEASUREMENT 98

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

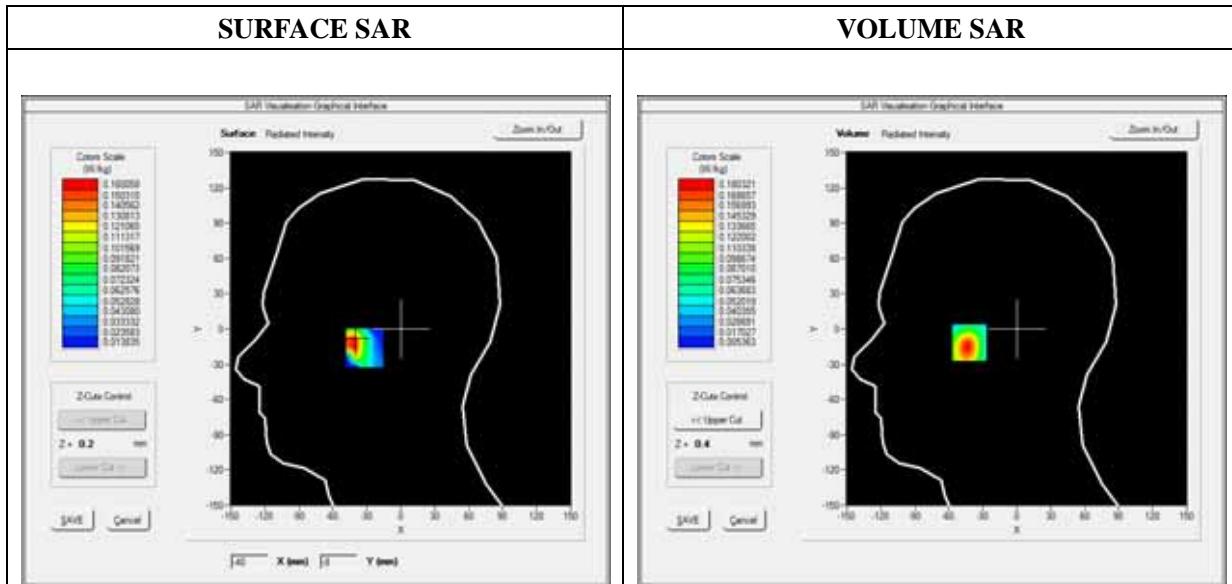
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	LTE Band 7_RMC
Channels	QPSK, 5MHz, Middle
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

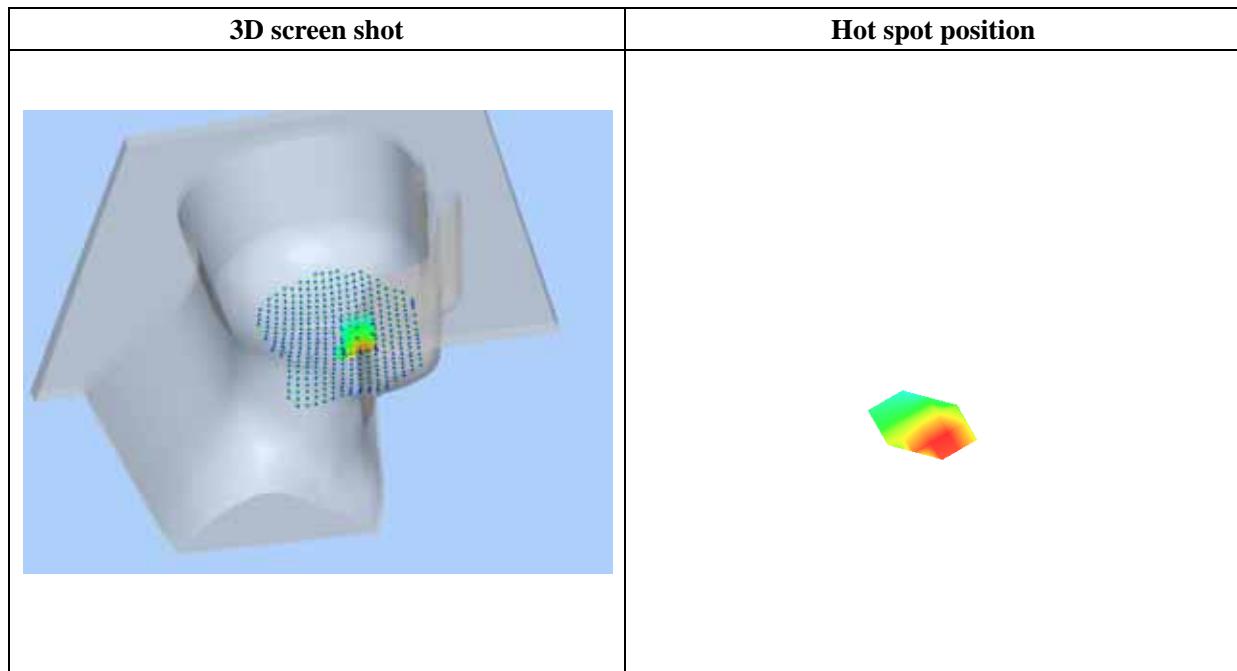
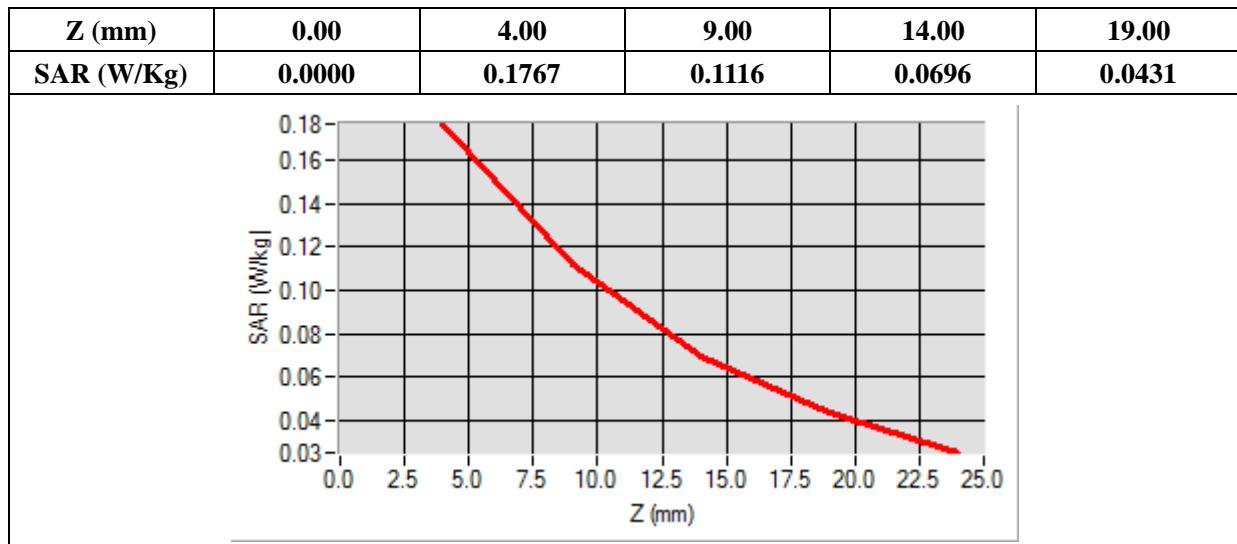
B. SAR Measurement Results

Frequency (MHz)	2535.0000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	1.658326
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-42.00, Y=-11.00

SAR 10g (W/Kg)	0.091746
SAR 1g (W/Kg)	0.166202



MEASUREMENT 99

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

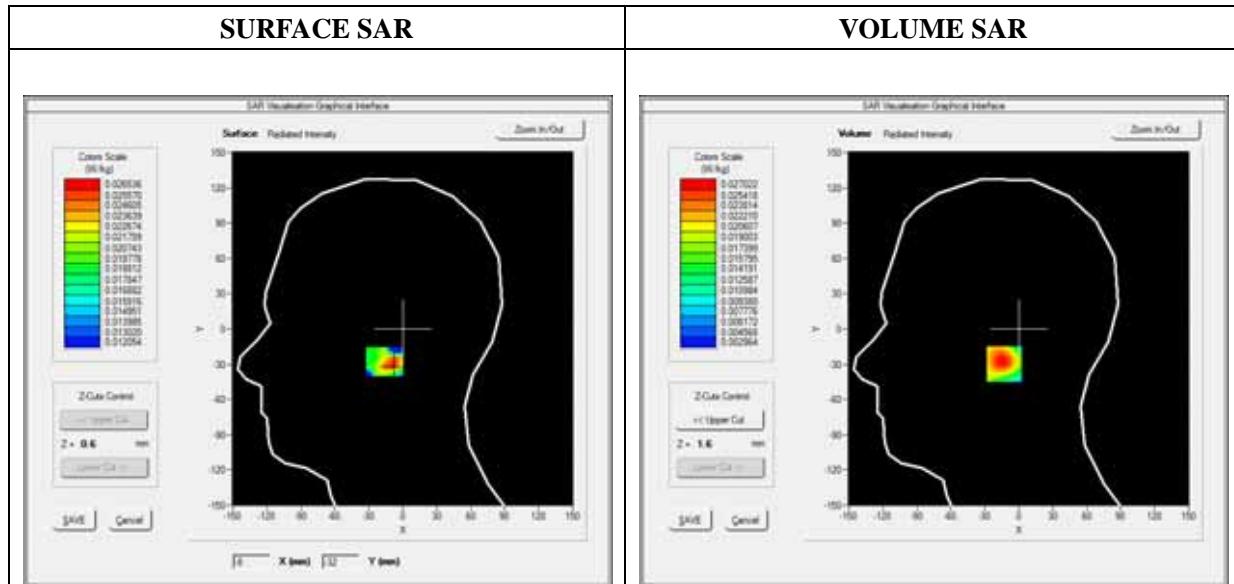
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	LTE Band 7_RMC
Channels	QPSK, 5MHz, Middle
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

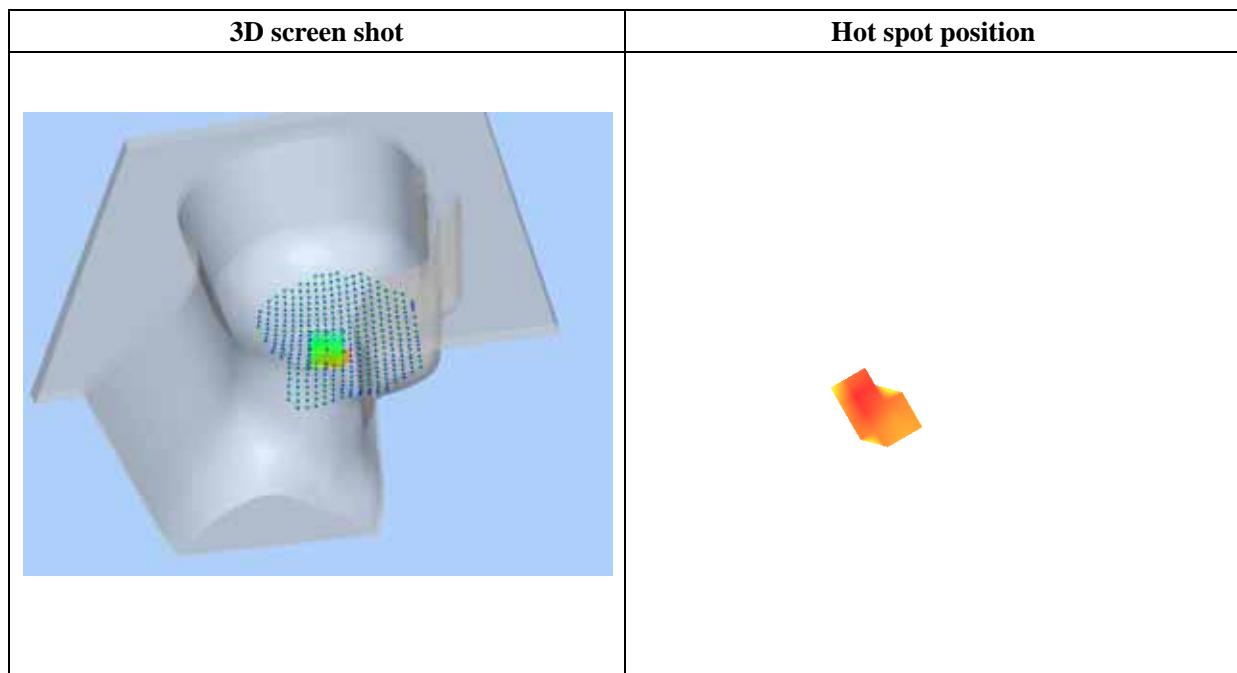
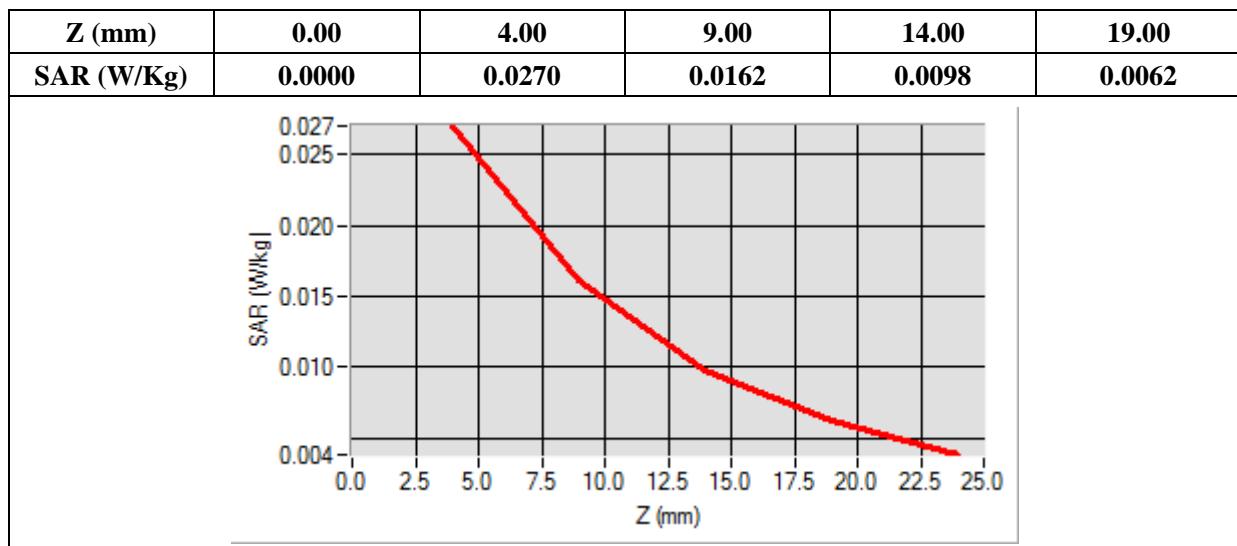
B. SAR Measurement Results

Frequency (MHz)	2535.0000000
Relative Permittivity (real part)	38.153660
Conductivity (S/m)	1.740236
Power Variation (%)	1.364940
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-9.00, Y=-30.00

SAR 10g (W/Kg)	0.014772
SAR 1g (W/Kg)	0.025602



MEASUREMENT 100

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

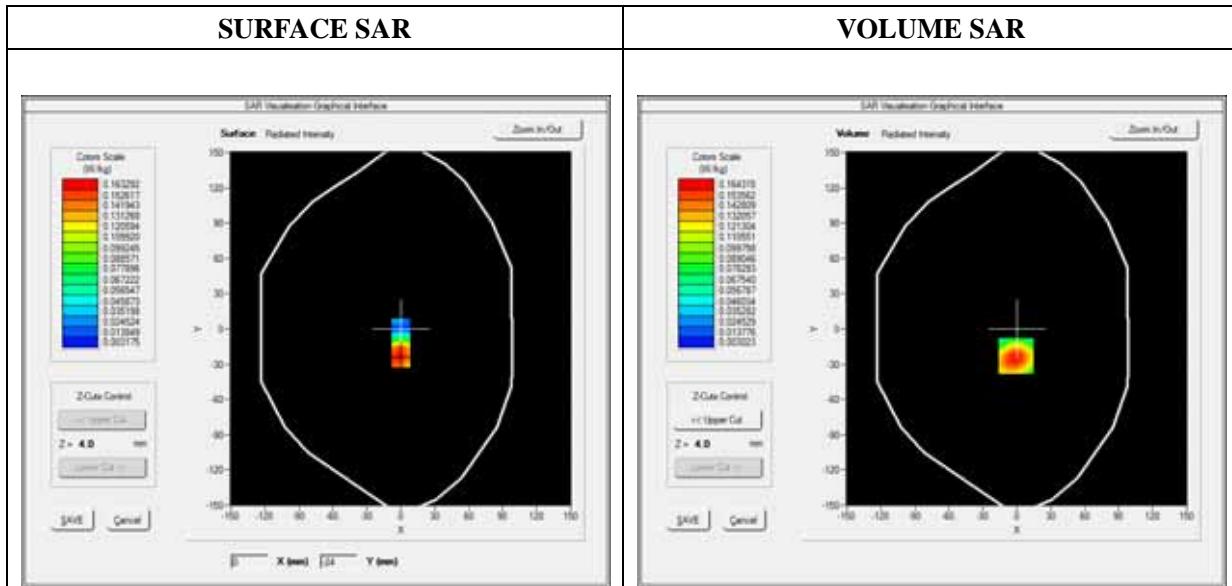
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 7_RMC
Channels	QPSK, 5MHz, Middle
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

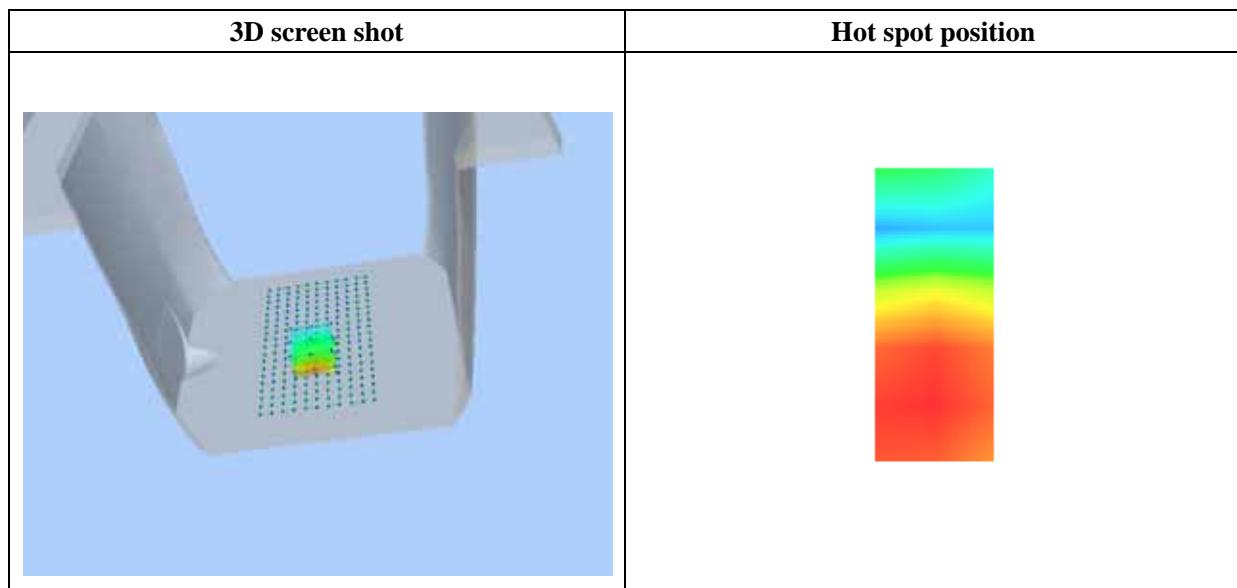
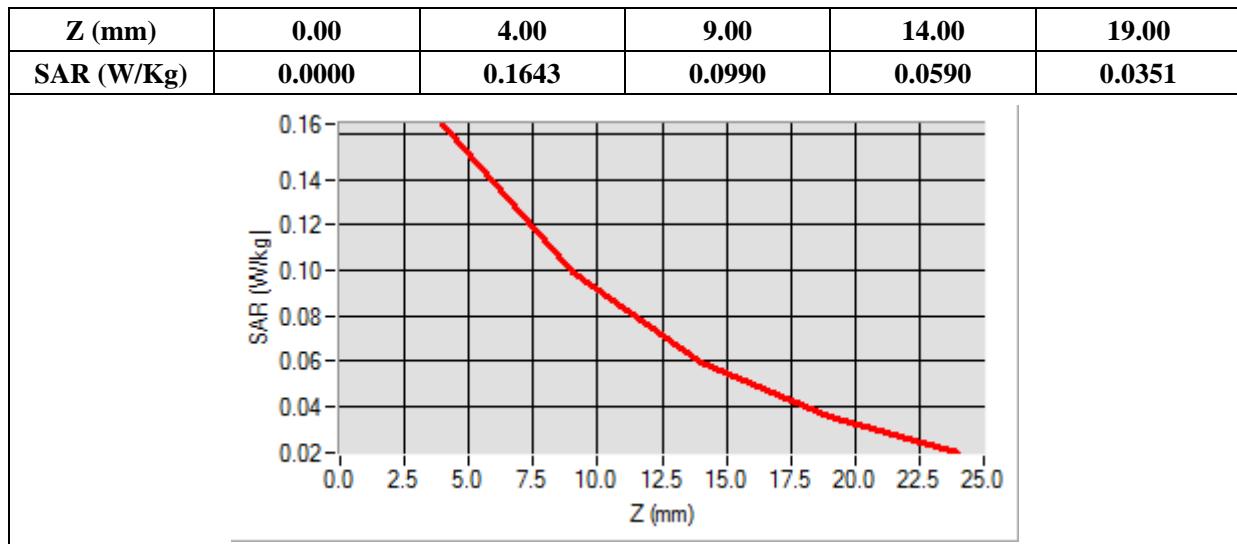
B. SAR Measurement Results

Frequency (MHz)	2535.0000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	0.909744
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-1.00, Y=-23.00

SAR 10g (W/Kg)	0.087343
SAR 1g (W/Kg)	0.153910



MEASUREMENT 101

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

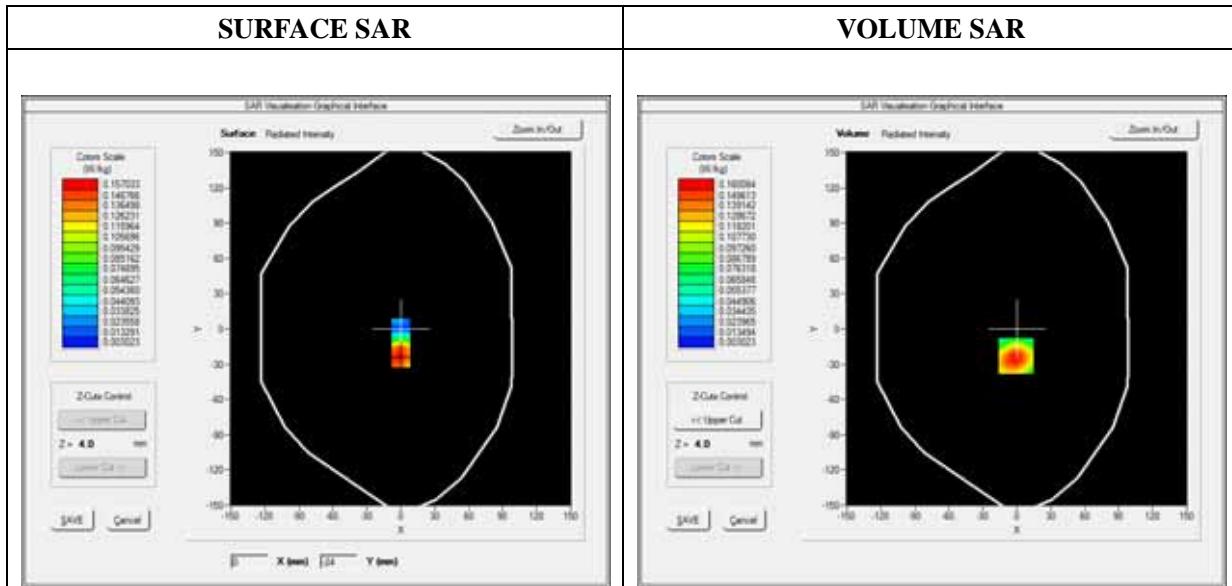
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 7_RMC
Channels	QPSK, 5MHz, Middle
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

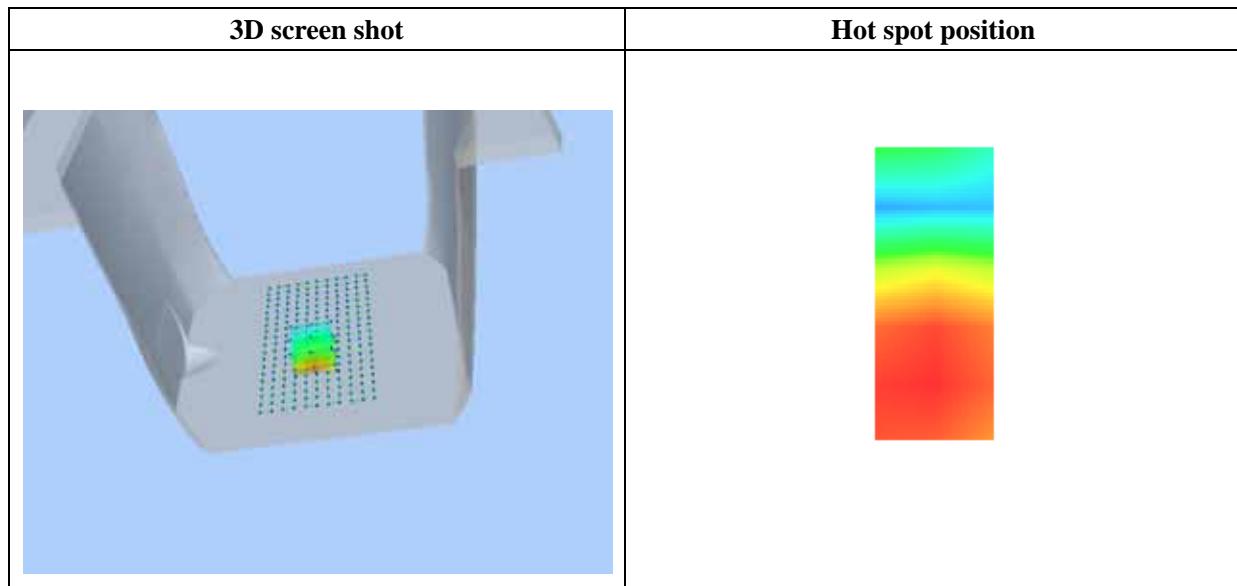
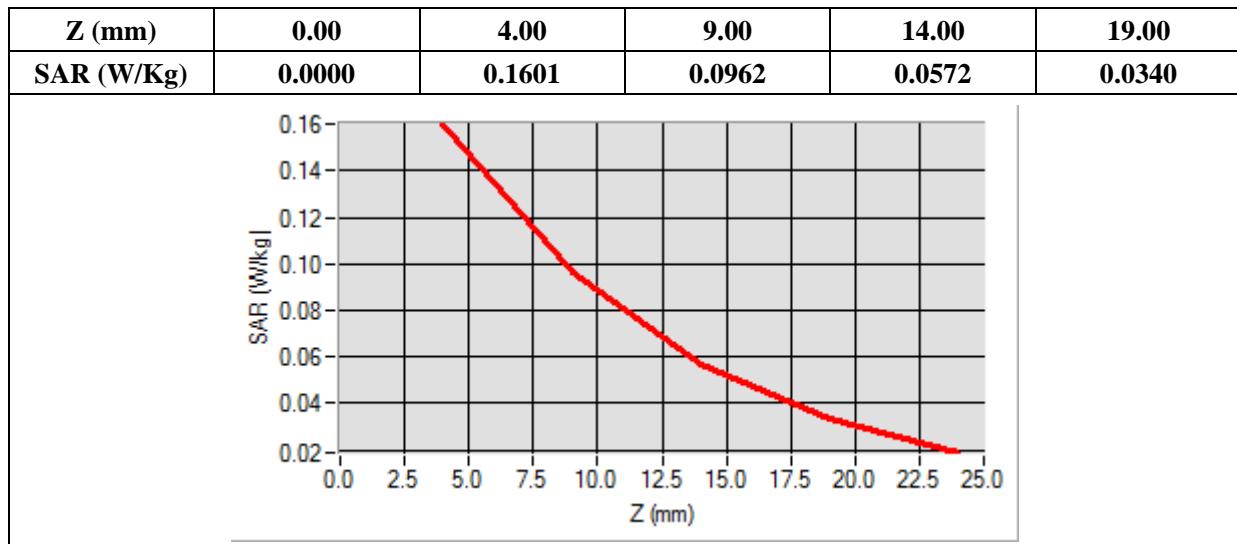
B. SAR Measurement Results

Frequency (MHz)	2535.0000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	1.383262
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-1.00, Y=-23.00

SAR 10g (W/Kg)	0.084766
SAR 1g (W/Kg)	0.149842



MEASUREMENT 102

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

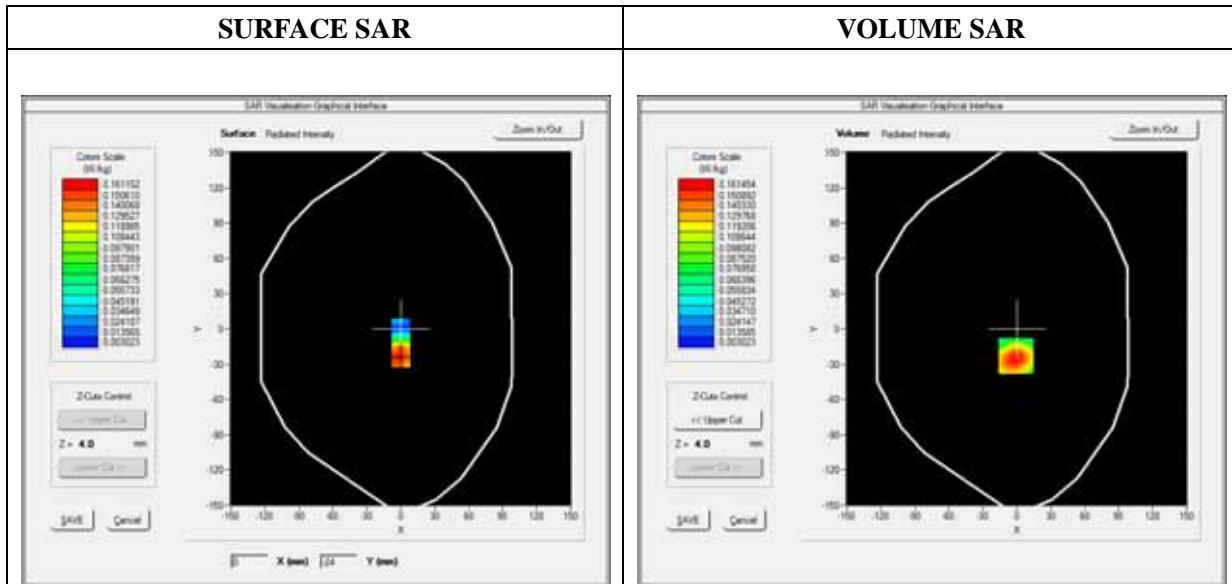
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Bottom Side
Band	LTE Band 7_RMC
Channels	QPSK, 5MHz, Middle
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

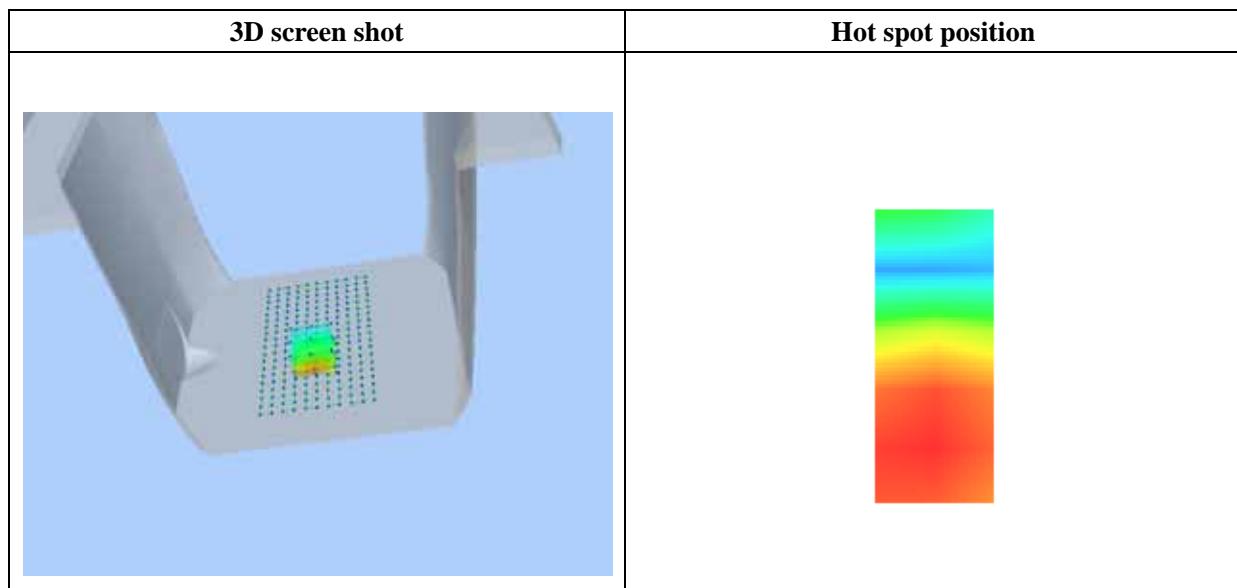
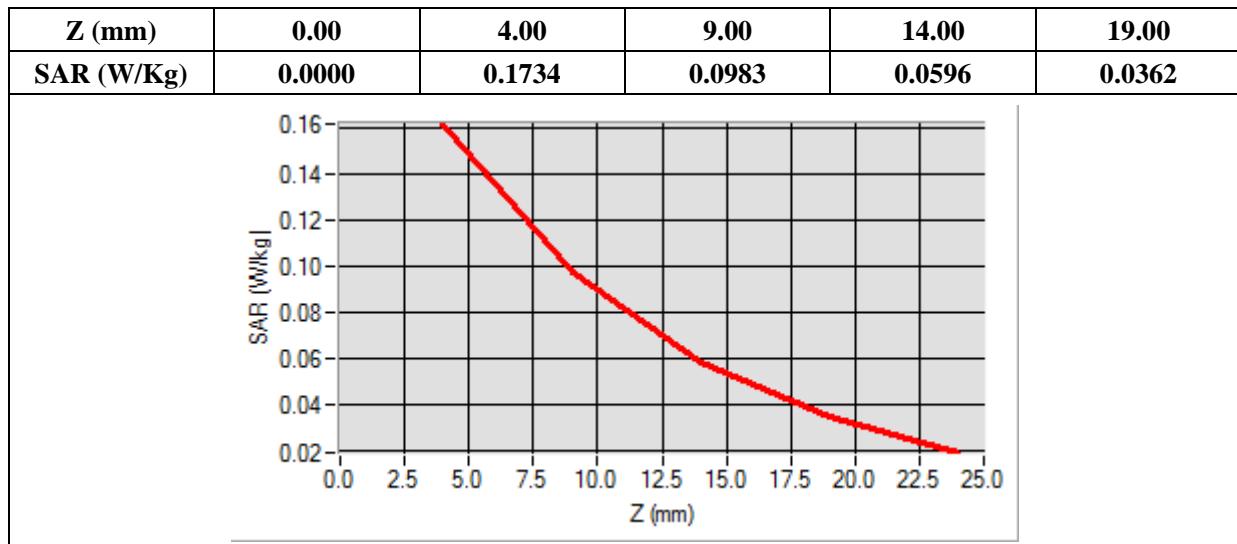
B. SAR Measurement Results

Frequency (MHz)	2535.0000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	2.49373
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-1.00, Y=-23.00

SAR 10g (W/Kg)	0.087654
SAR 1g (W/Kg)	0.154523



MEASUREMENT 103

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

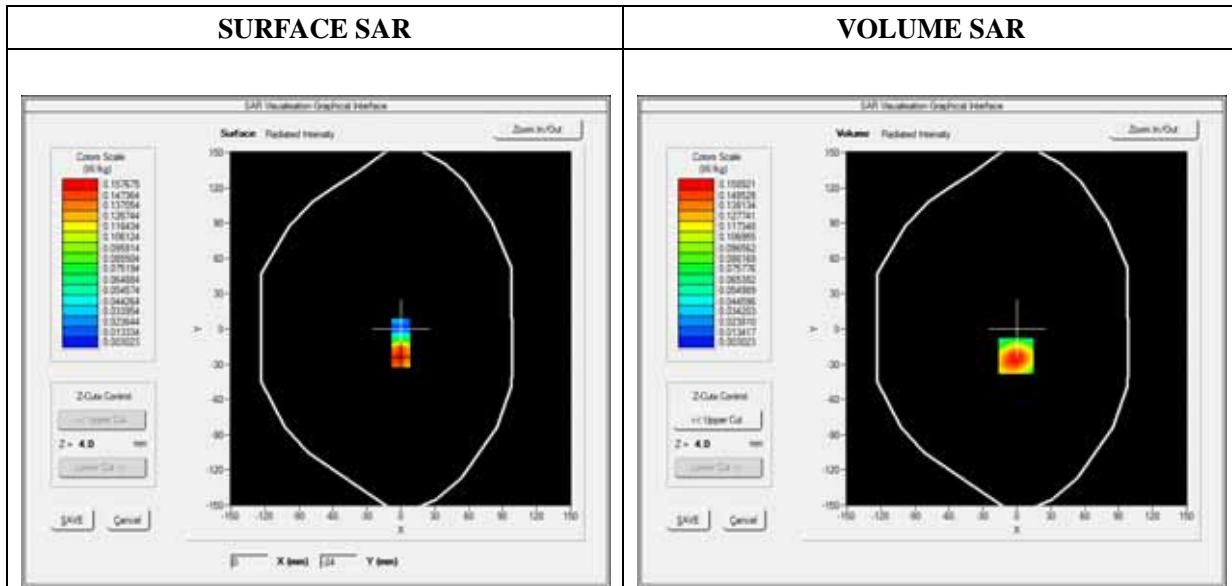
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Right Side
Band	LTE Band 7_RMC
Channels	QPSK, 5MHz, Middle
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

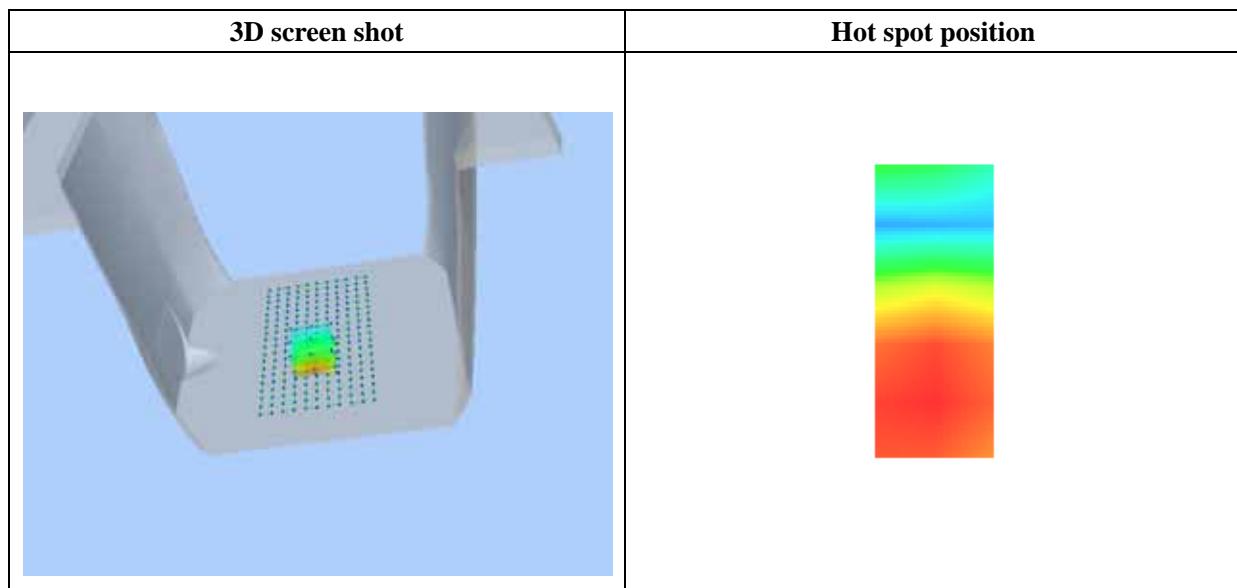
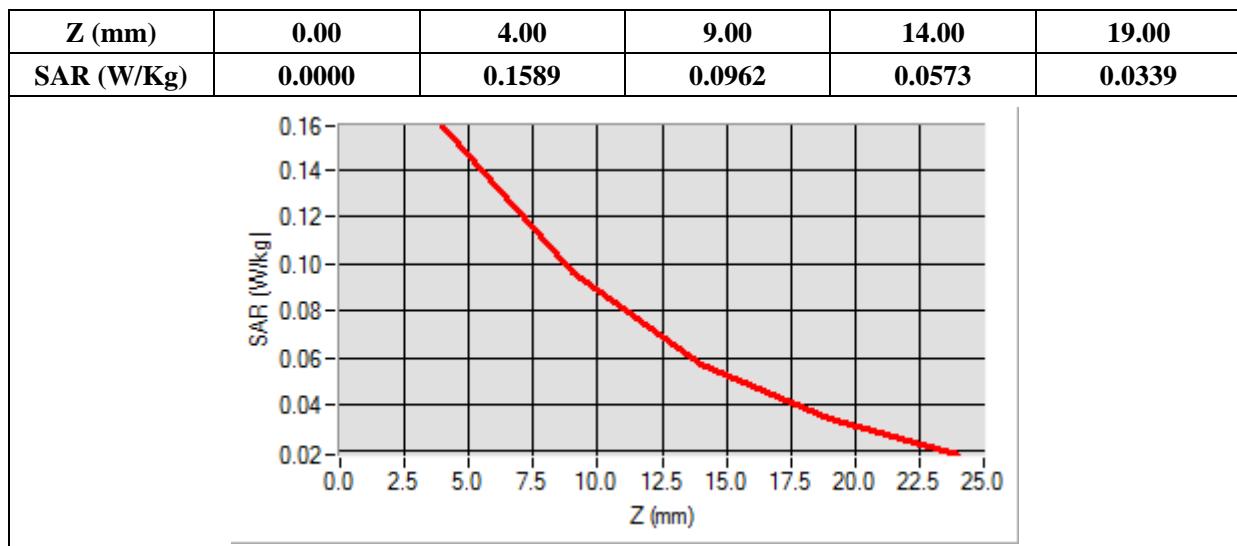
B. SAR Measurement Results

Frequency (MHz)	2535.0000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	3.244392
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-1.00, Y=-23.00

SAR 10g (W/Kg)	0.084595
SAR 1g (W/Kg)	0.149022



MEASUREMENT 104

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

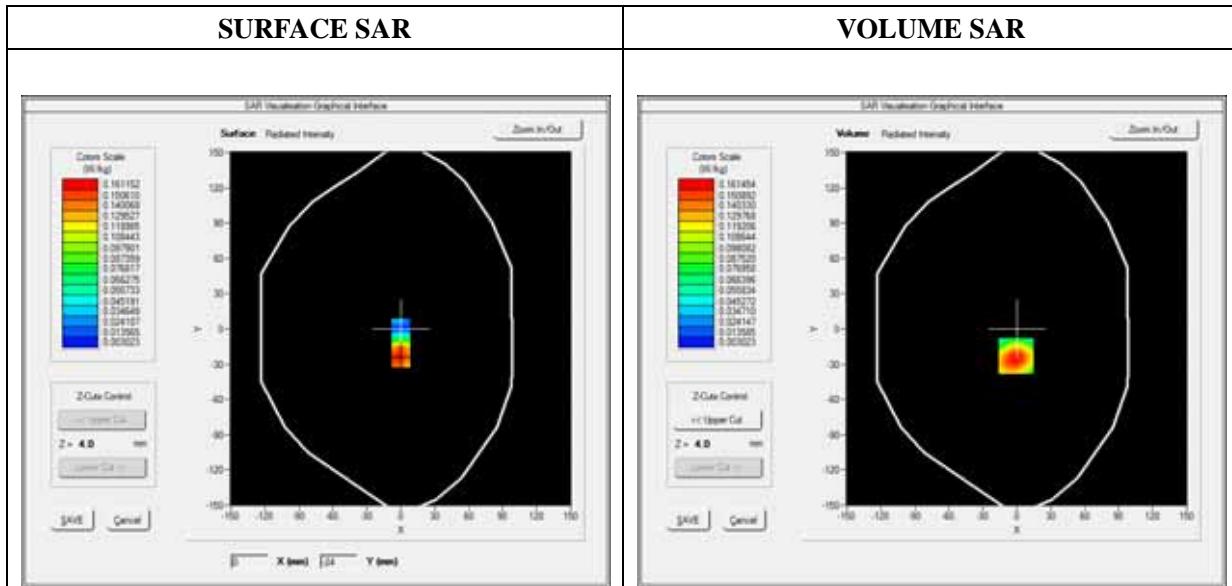
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Left Side
Band	LTE Band 7_RMC
Channels	QPSK, 5MHz, Middle
Signal	Duty Cycle: 1.00 (Crest factor: 1.00)

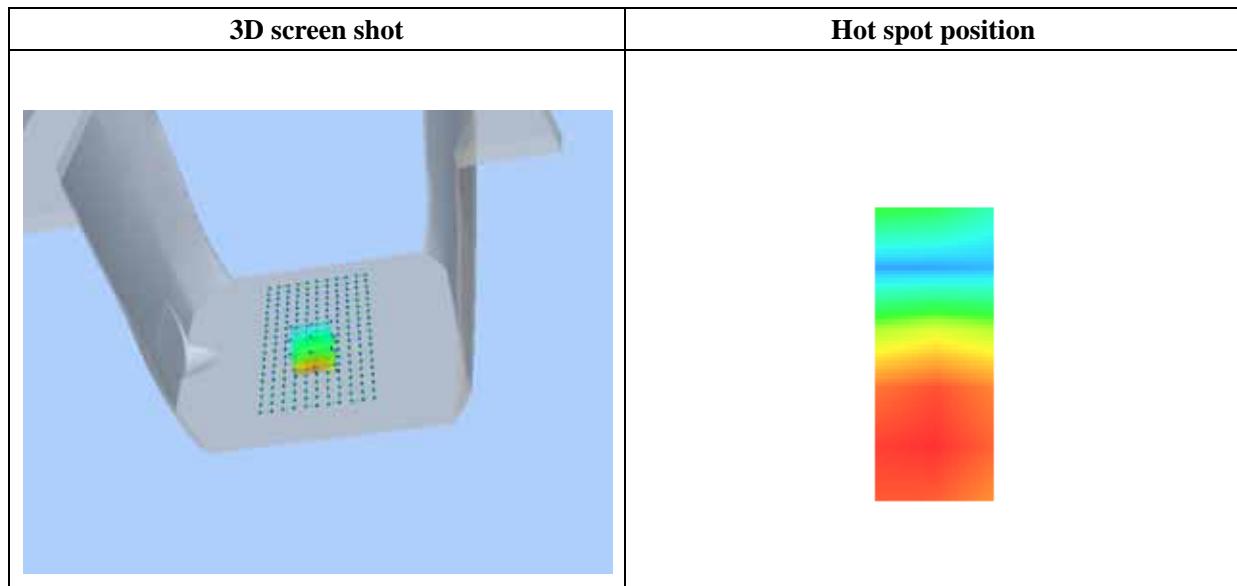
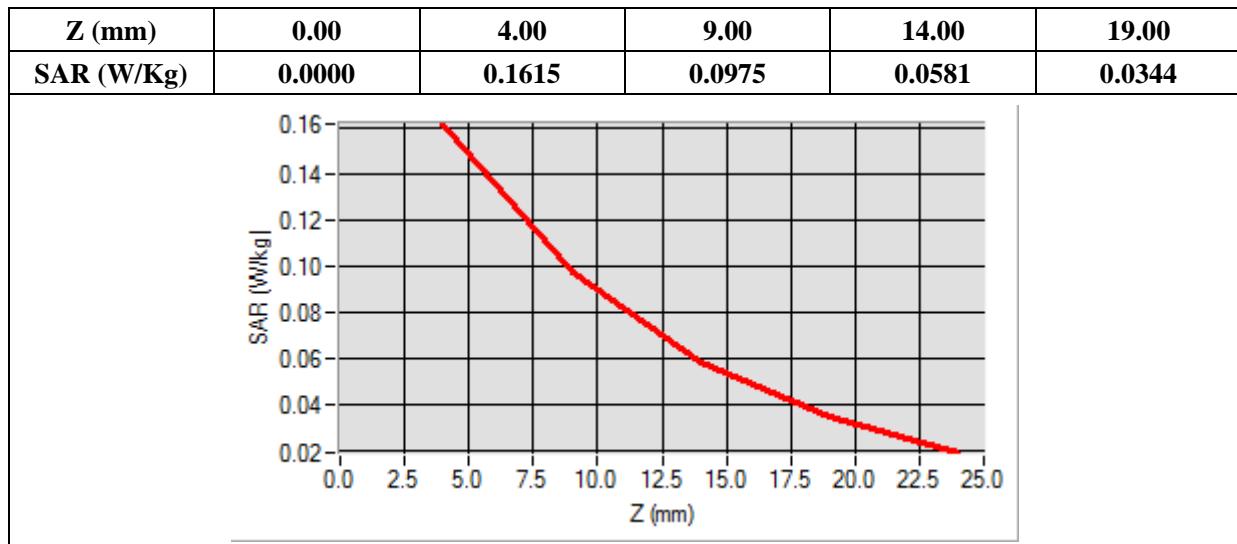
B. SAR Measurement Results

Frequency (MHz)	2535.0000000
Relative Permittivity (real part)	52.0102121
Conductivity (S/m)	1.910255
Power Variation (%)	0.903831
Ambient Temperature	21.1
Liquid Temperature	21.2



Maximum location: X=-1.00, Y=-23.00

SAR 10g (W/Kg)	0.085897
SAR 1g (W/Kg)	0.151391



Vice board

MEASUREMENT 76

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

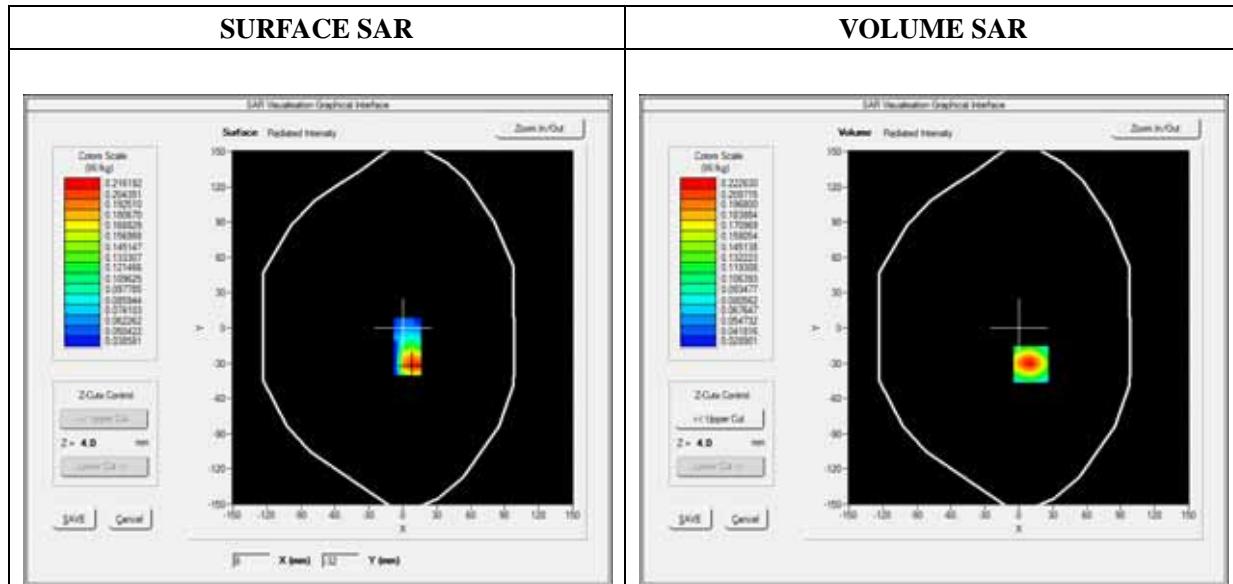
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Back
Band	GPRS850_2TX
Channels	High
Signal	Duty Cycle 1:2

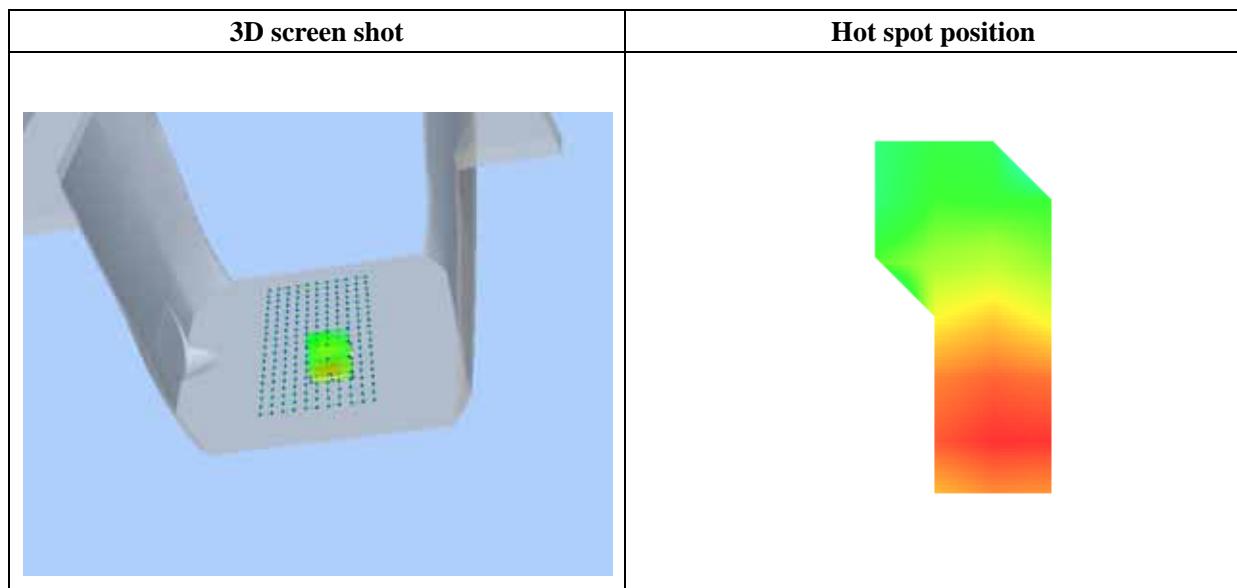
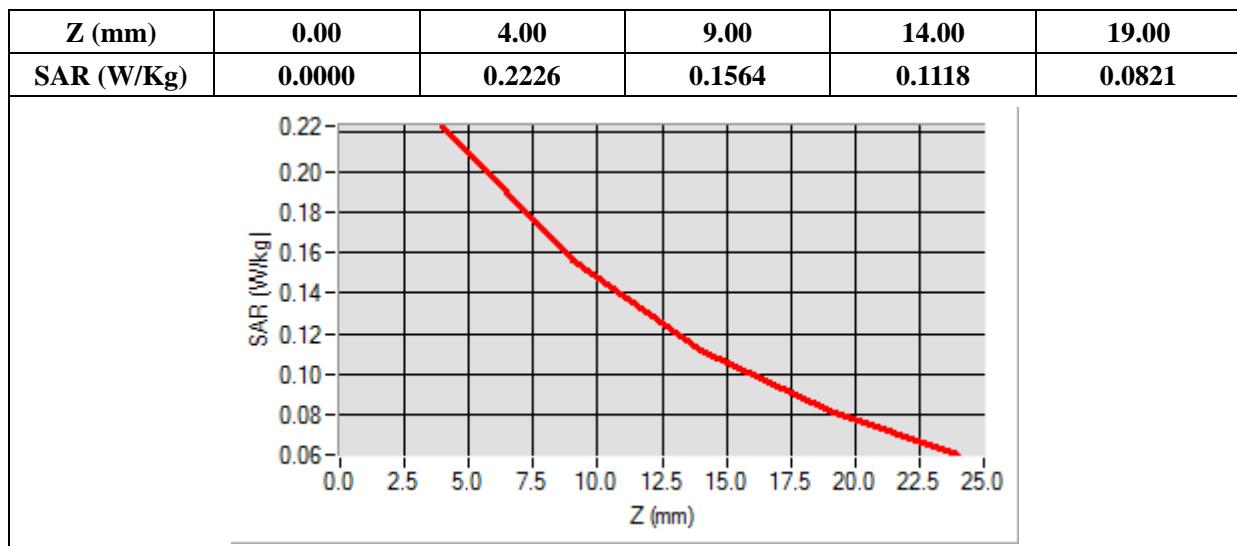
B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.876345
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=11.00, Y=-31.00

SAR 10g (W/Kg)	0.131571
SAR 1g (W/Kg)	0.206938



MEASUREMENT 77

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

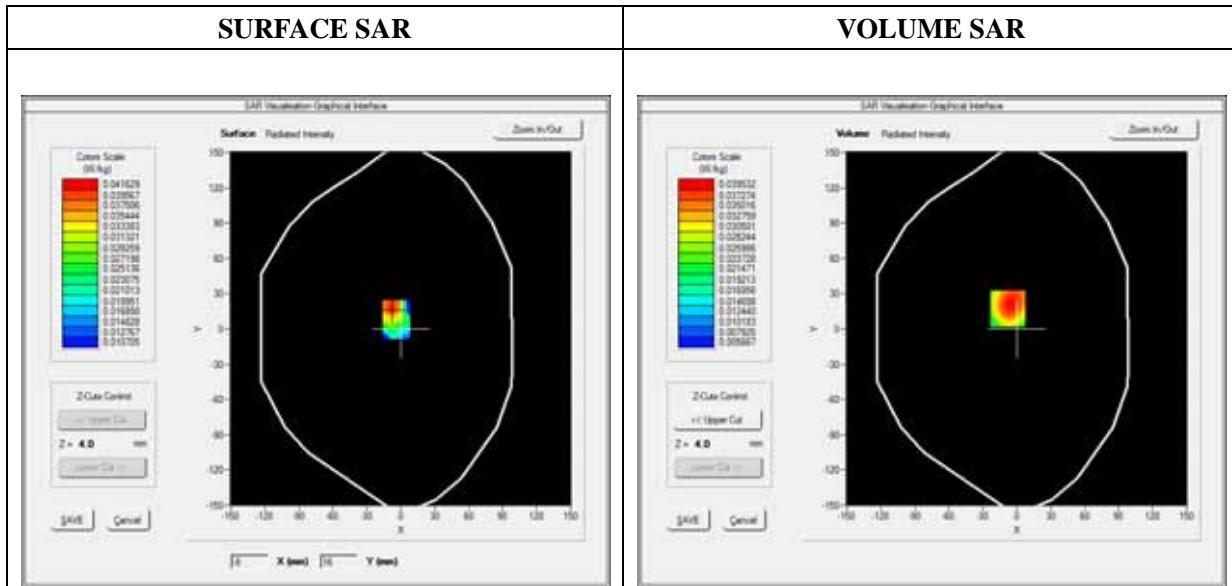
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Front
Band	GPRS850_2TX
Channels	High
Signal	Duty Cycle 1:2

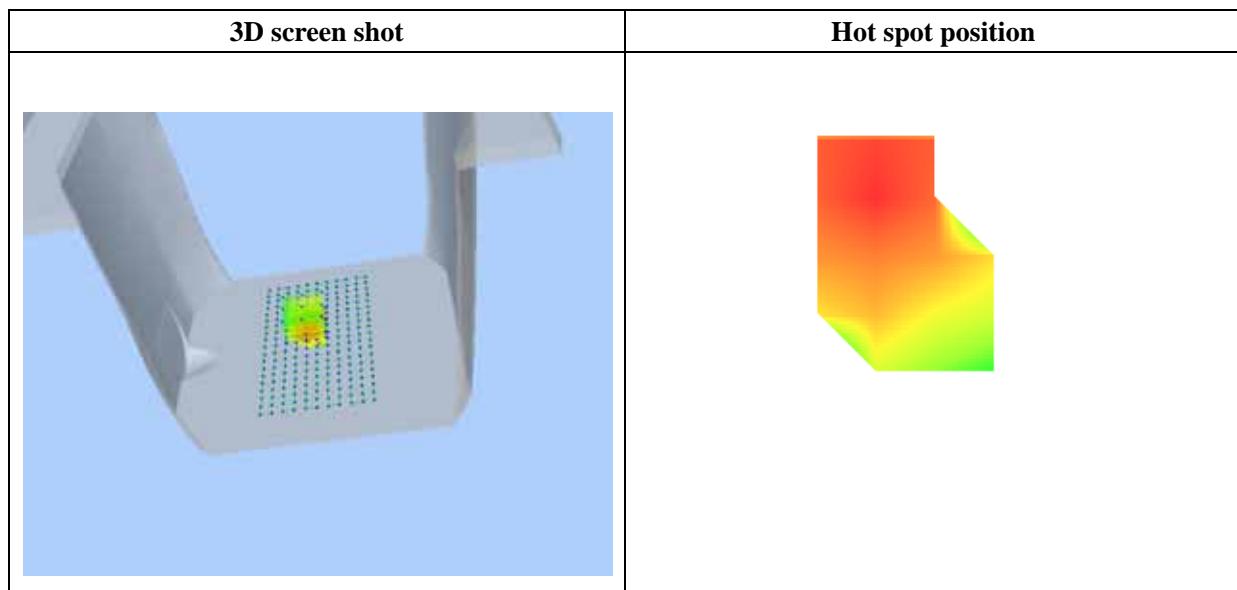
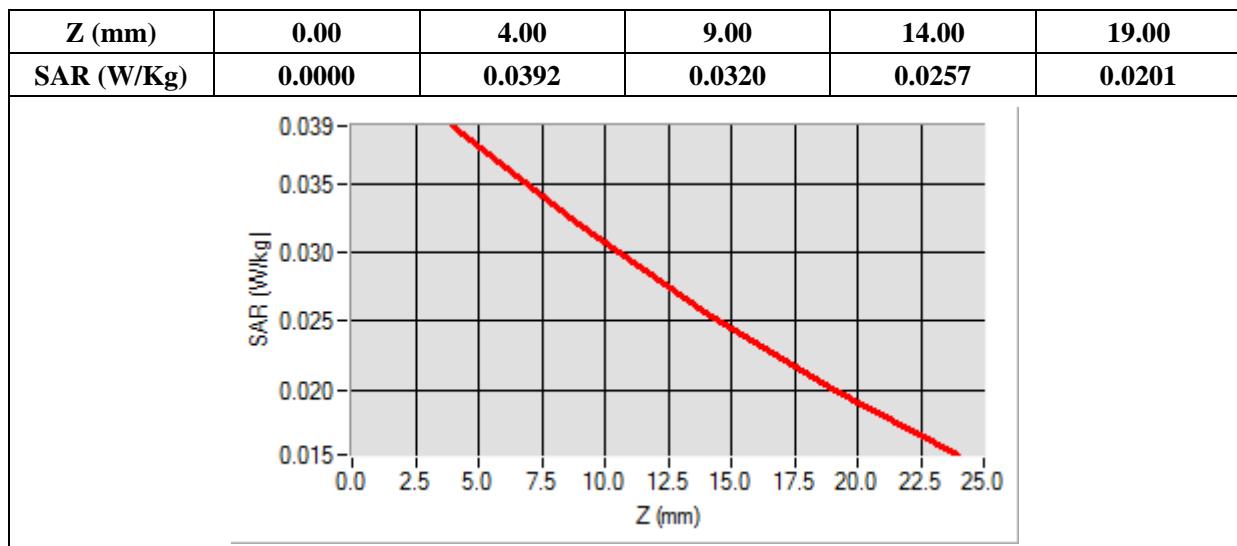
B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	2.493712
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-8.00, Y=17.00

SAR 10g (W/Kg)	0.028975
SAR 1g (W/Kg)	0.038186



MEASUREMENT 78

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

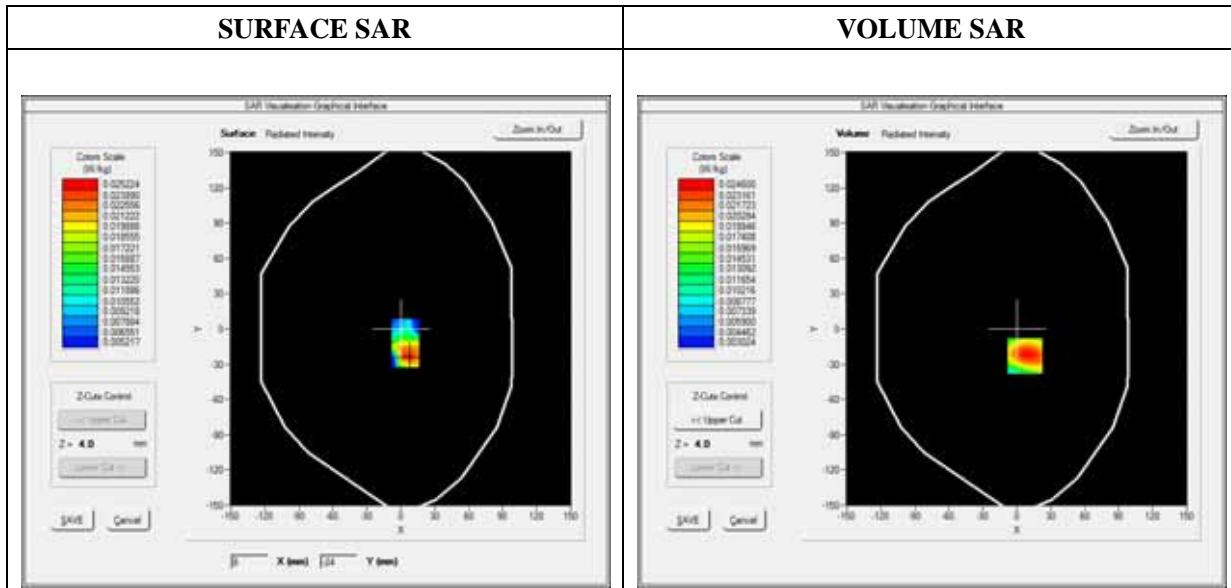
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Top
Band	GPRS850_2TX
Channels	High
Signal	Duty Cycle 1:2

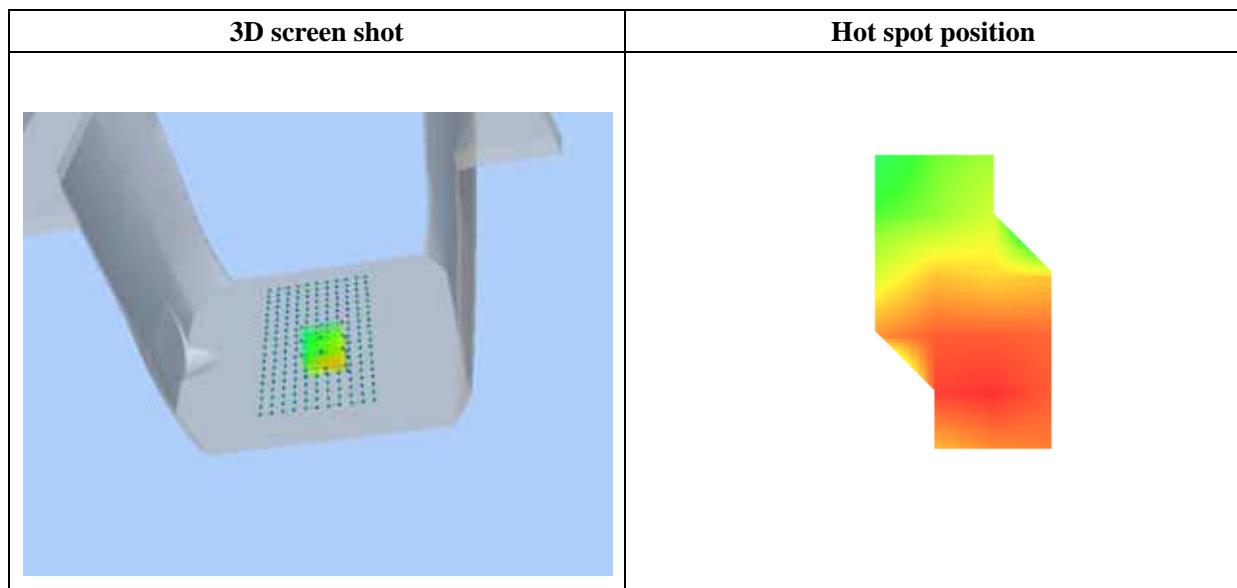
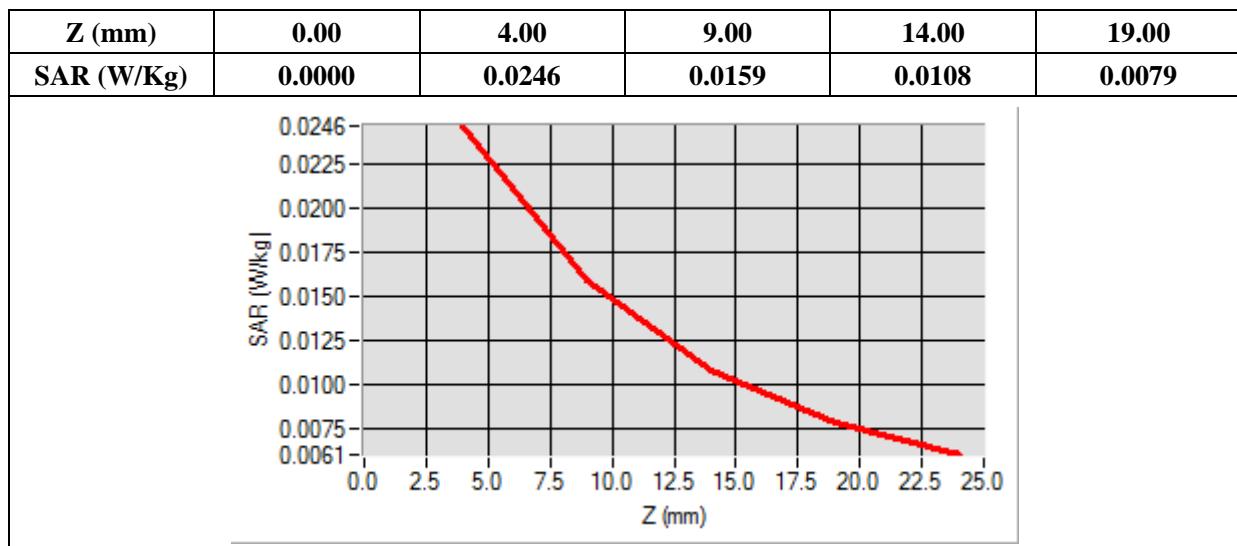
B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	2.193474
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=-23.00

SAR 10g (W/Kg)	0.015704
SAR 1g (W/Kg)	0.023723



MEASUREMENT 79

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

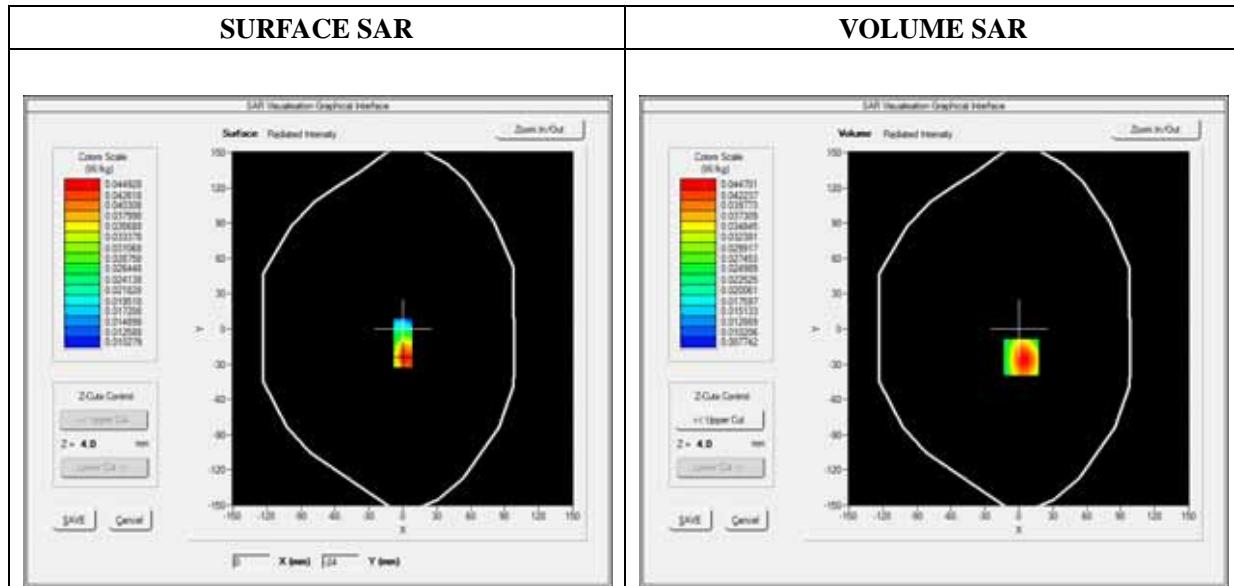
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Right side
Band	GPRS850_2TX
Channels	High
Signal	Duty Cycle 1:2

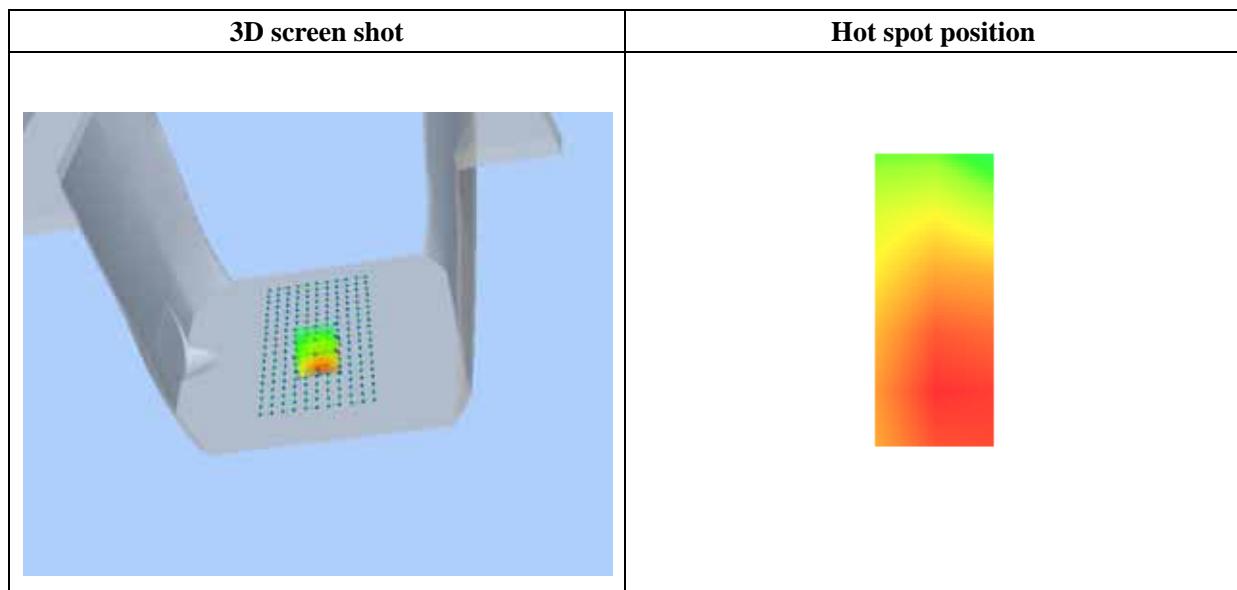
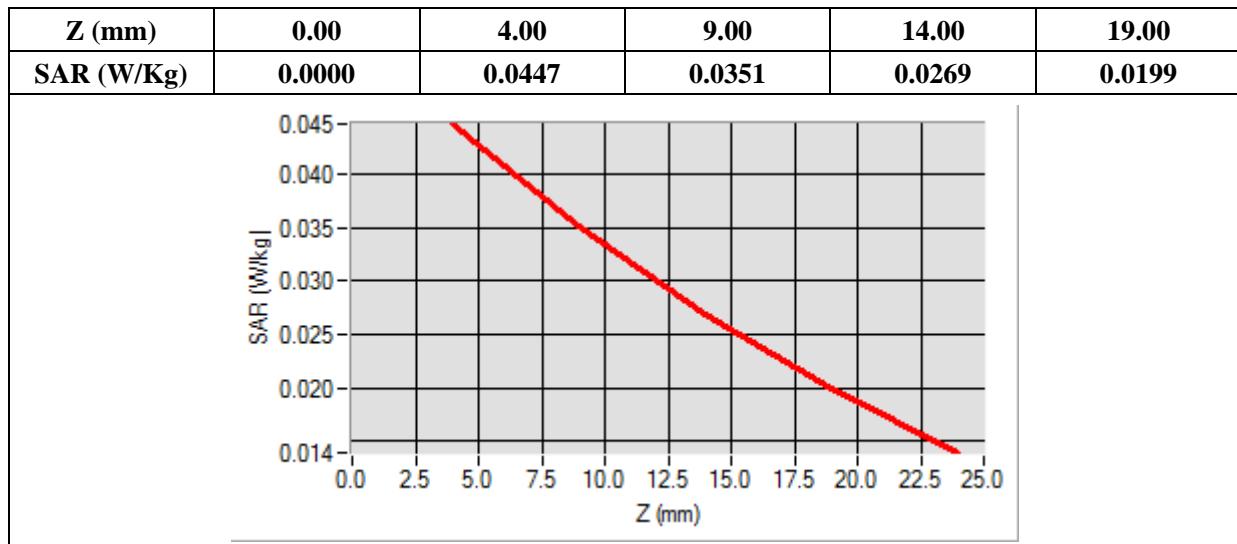
B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	2.927333
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=2.00, Y=-24.00

SAR 10g (W/Kg)	0.029977
SAR 1g (W/Kg)	0.042817



MEASUREMENT 80

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

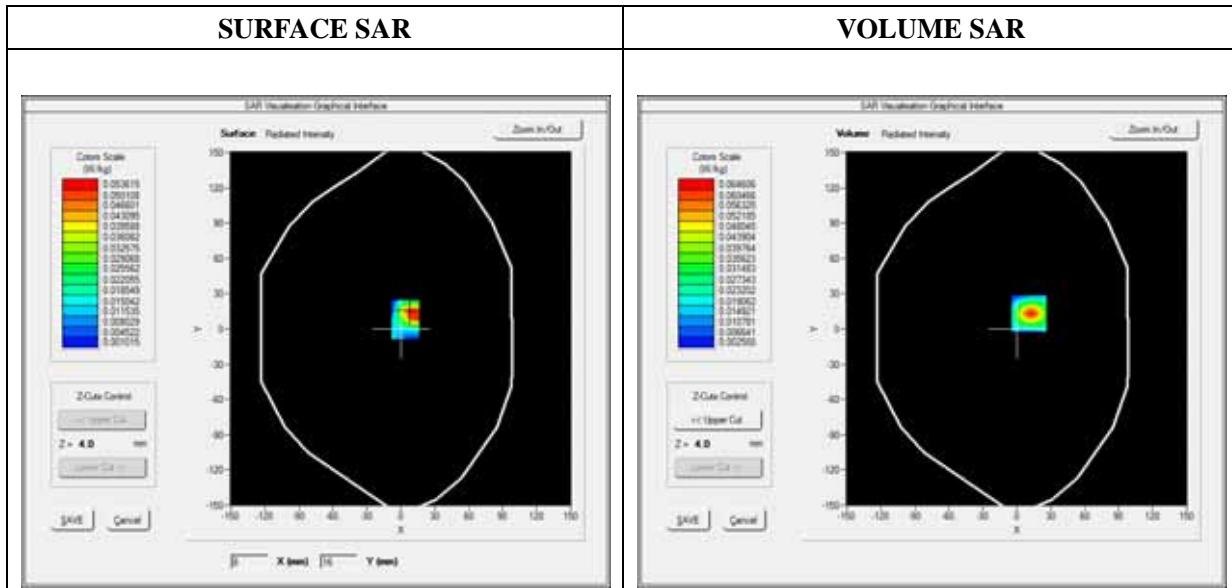
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Left side
Band	GPRS850_2TX
Channels	High
Signal	Duty Cycle 1:2

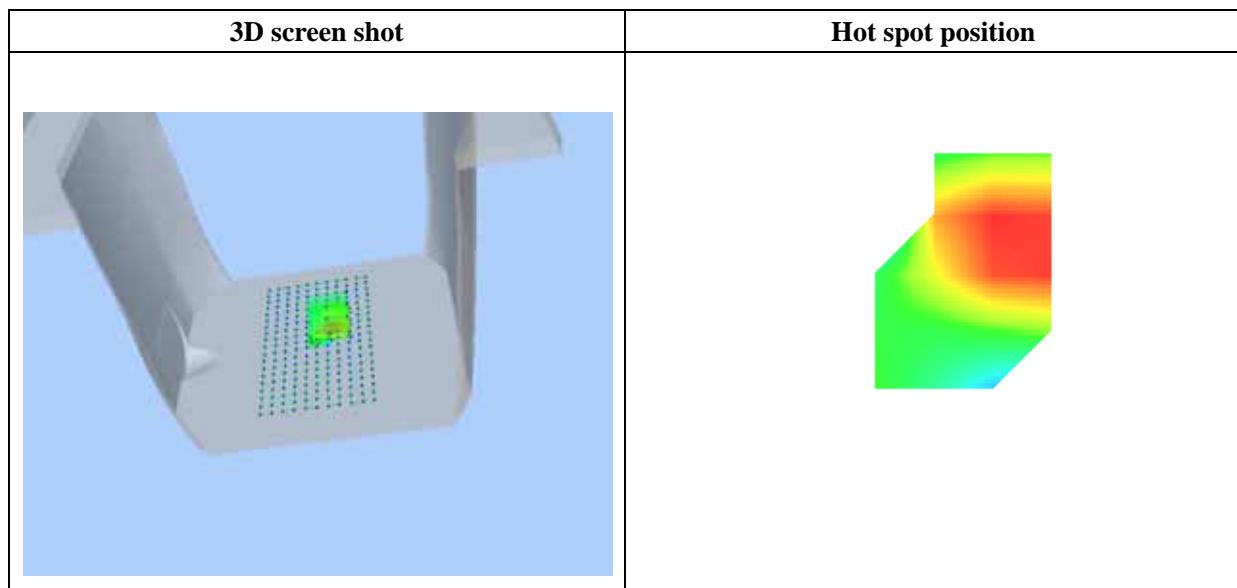
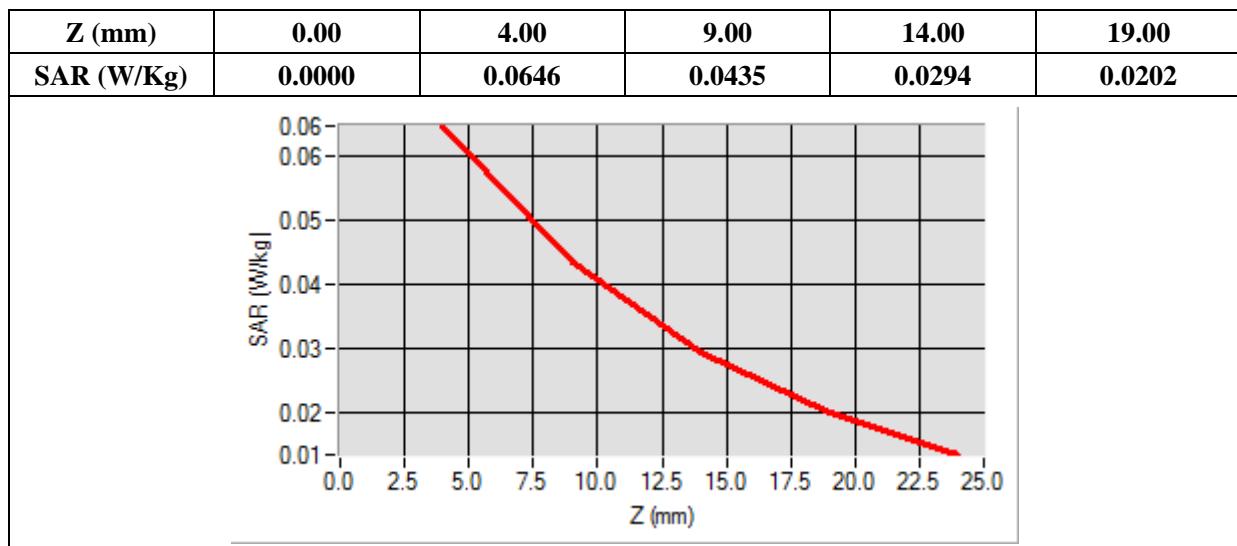
B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	2.193733
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=11.00, Y=13.00

SAR 10g (W/Kg)	0.031009
SAR 1g (W/Kg)	0.056968



MEASUREMENT 81

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

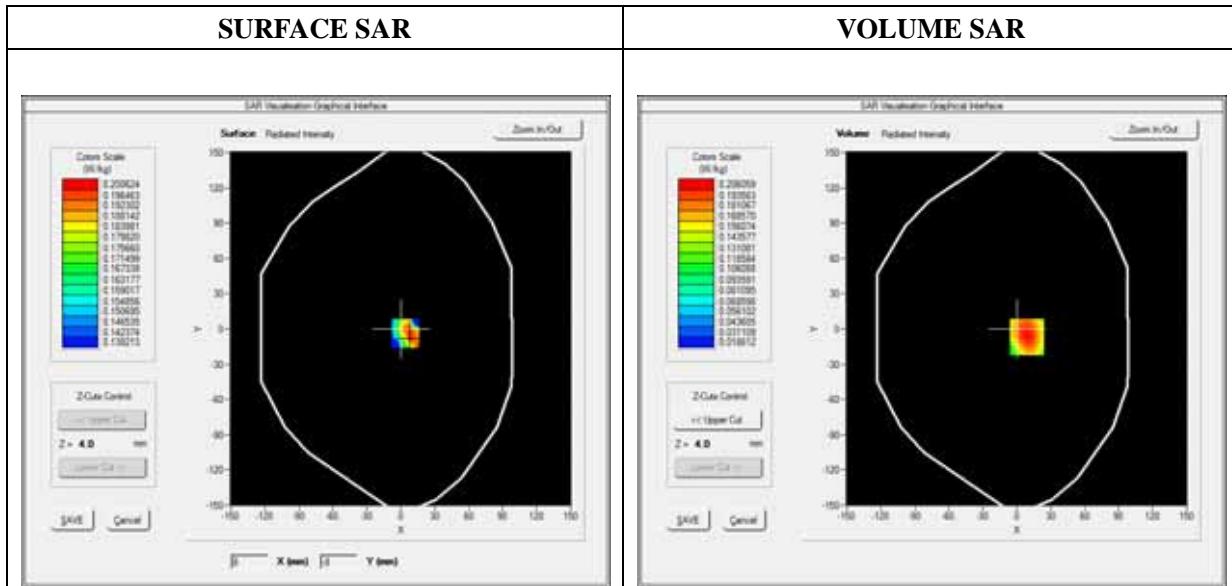
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Back
Band	GPRS1900_2TX
Channels	Middle
Signal	Duty Cycle 1:2

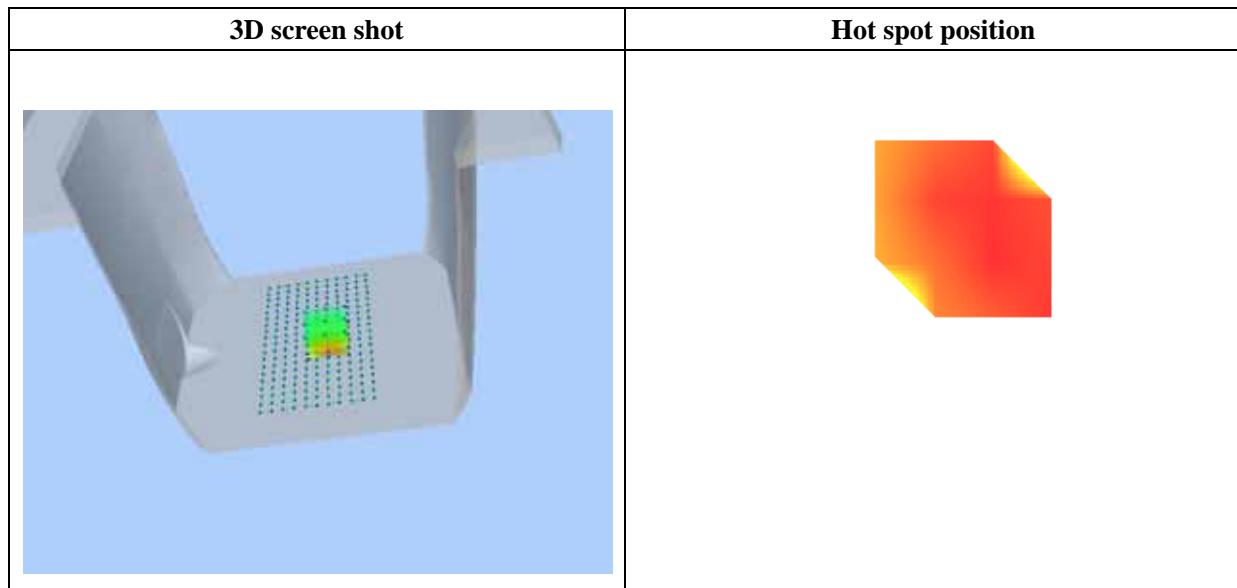
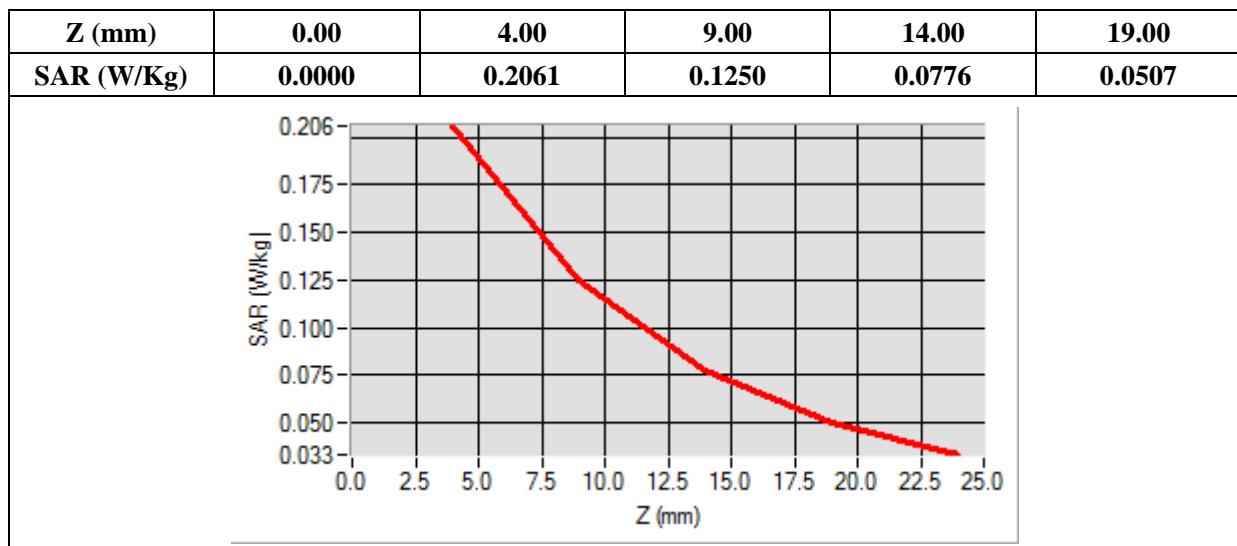
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.834653
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=9.00, Y=-7.00

SAR 10g (W/Kg)	0.120183
SAR 1g (W/Kg)	0.195300



MEASUREMENT 82

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

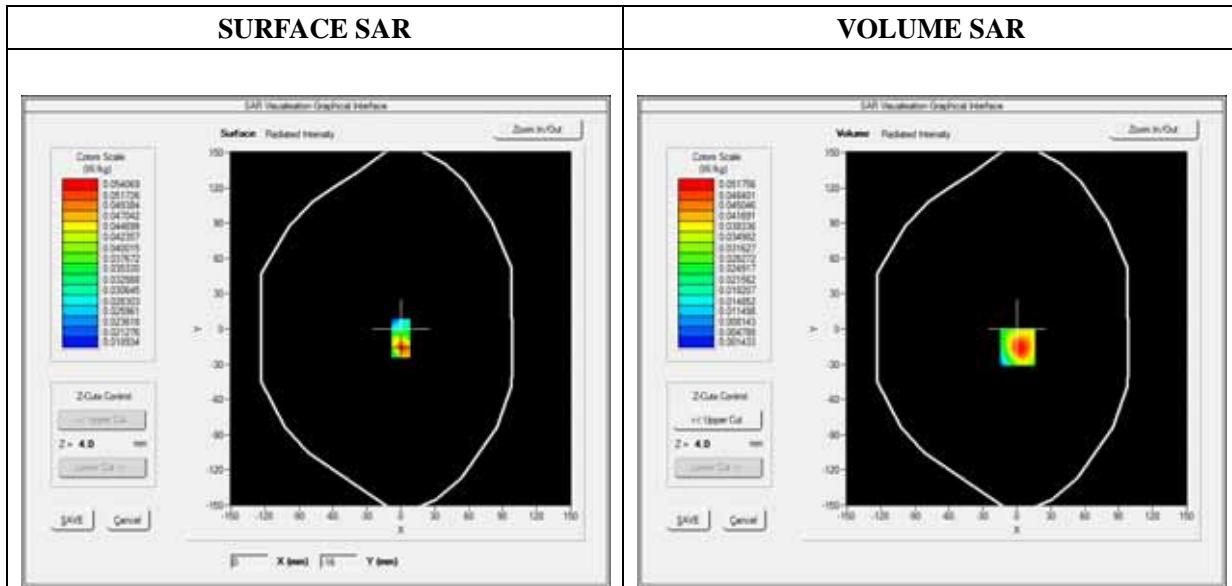
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Front
Band	GPRS1900_2TX
Channels	Middle
Signal	Duty Cycle 1:2

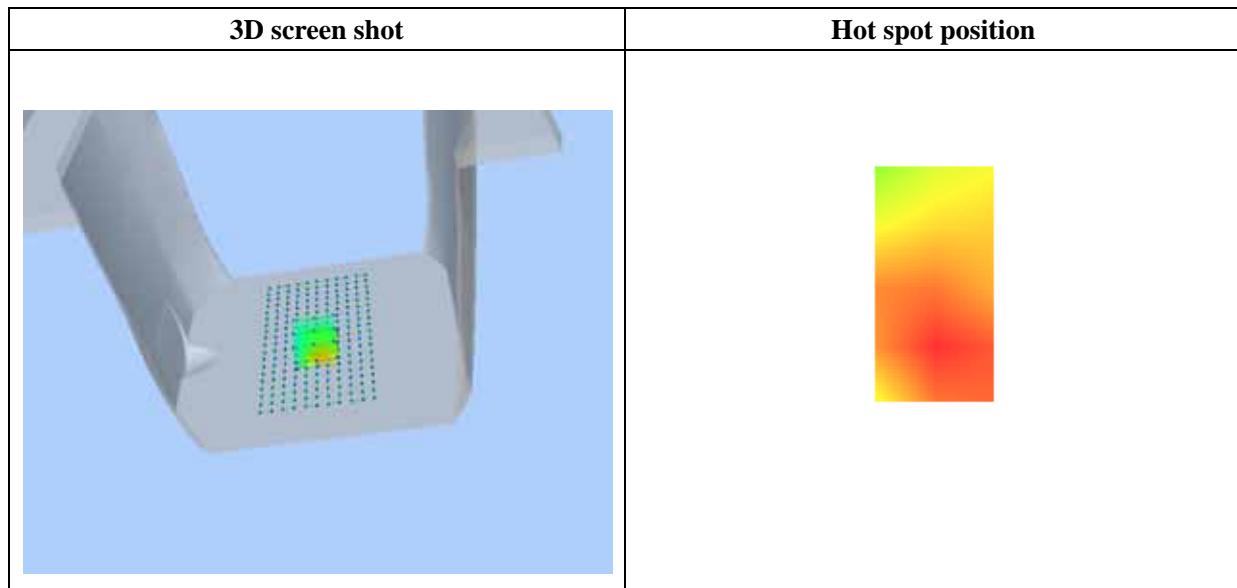
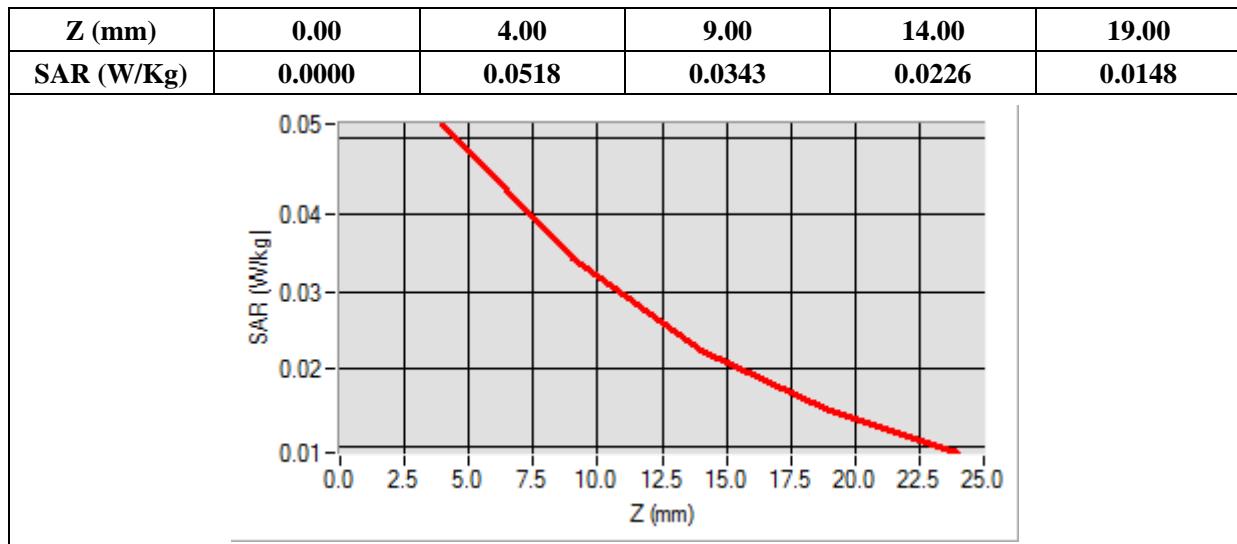
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	2.492174
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=1.00, Y=-16.00

SAR 10g (W/Kg)	0.028630
SAR 1g (W/Kg)	0.048484



MEASUREMENT 83

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

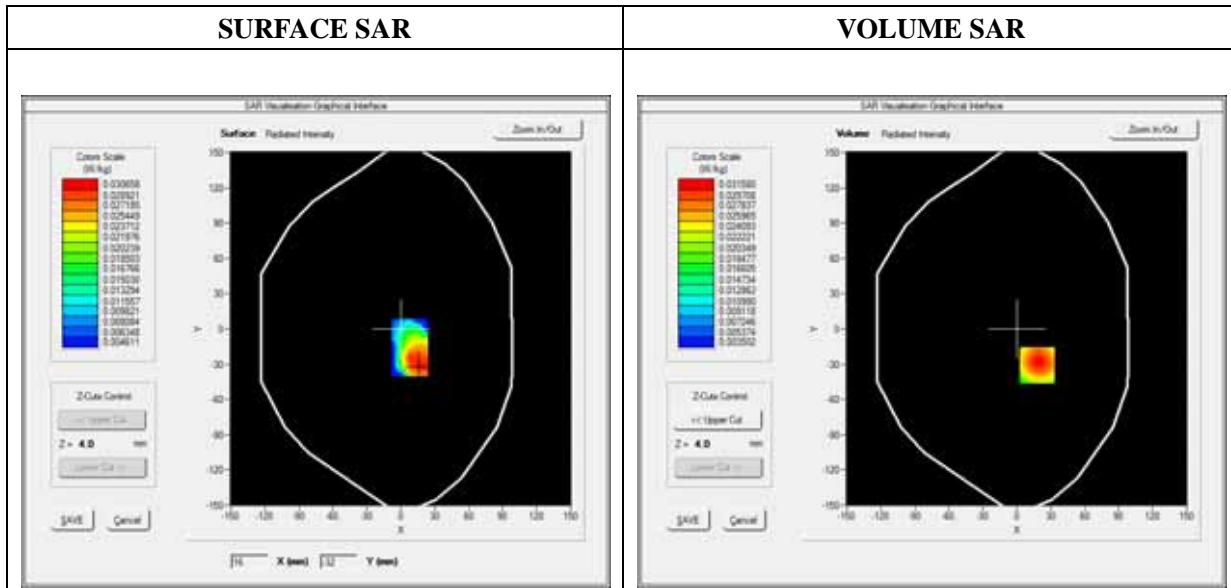
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Top
Band	GPRS1900_2TX
Channels	Middle
Signal	Duty Cycle 1:2

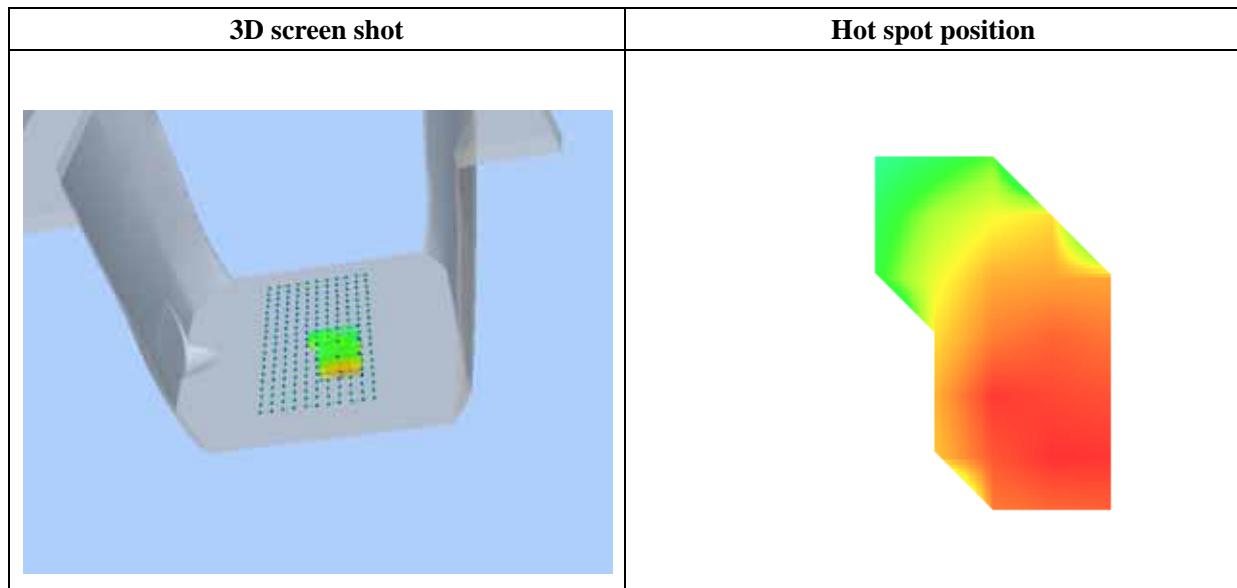
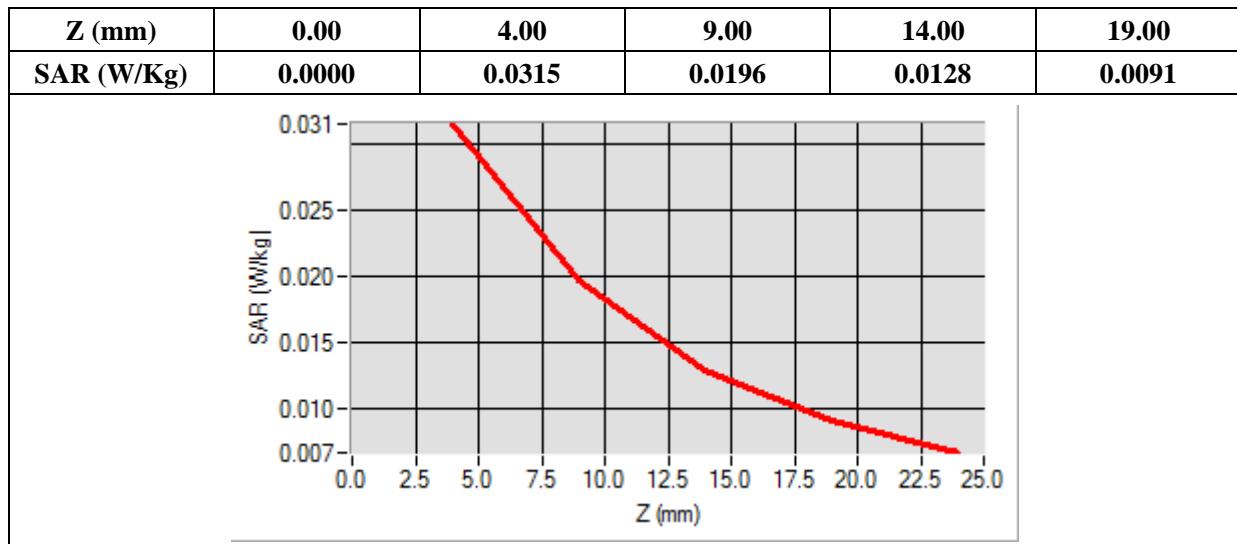
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.998313
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=18.00, Y=-31.00

SAR 10g (W/Kg)	0.019062
SAR 1g (W/Kg)	0.030165



MEASUREMENT 84

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

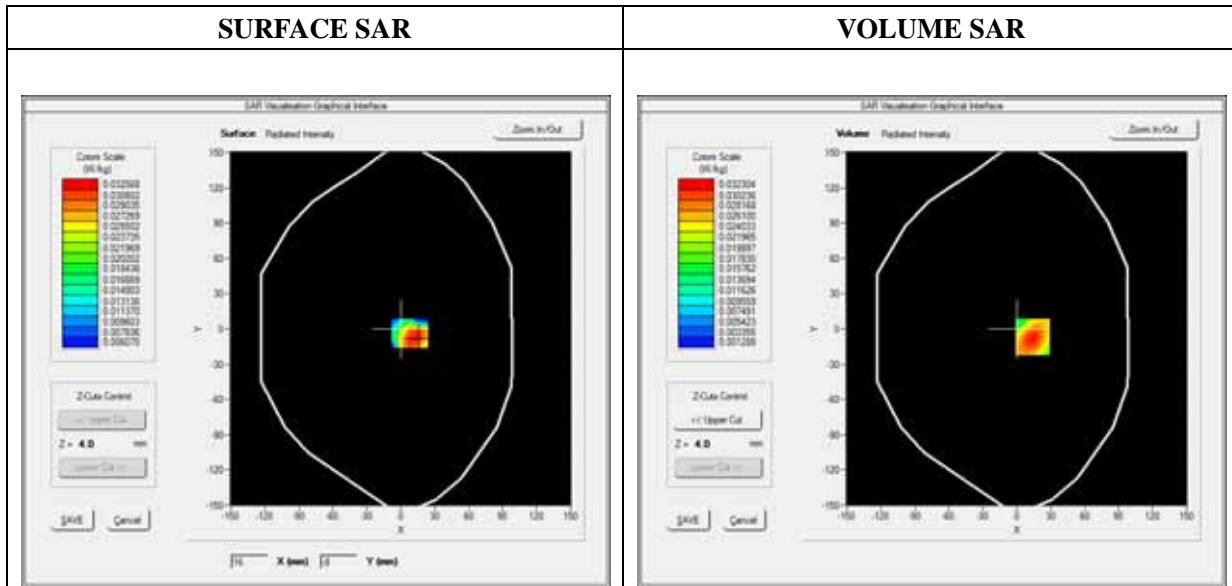
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Right side
Band	GPRS1900_2TX
Channels	Middle
Signal	Duty Cycle 1:2

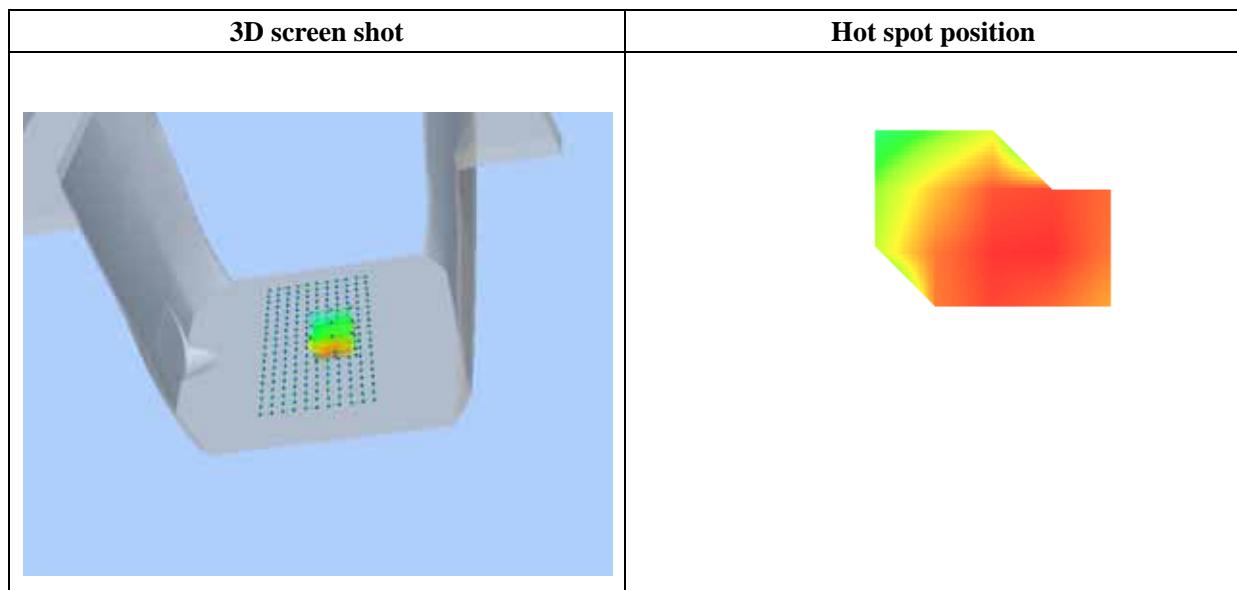
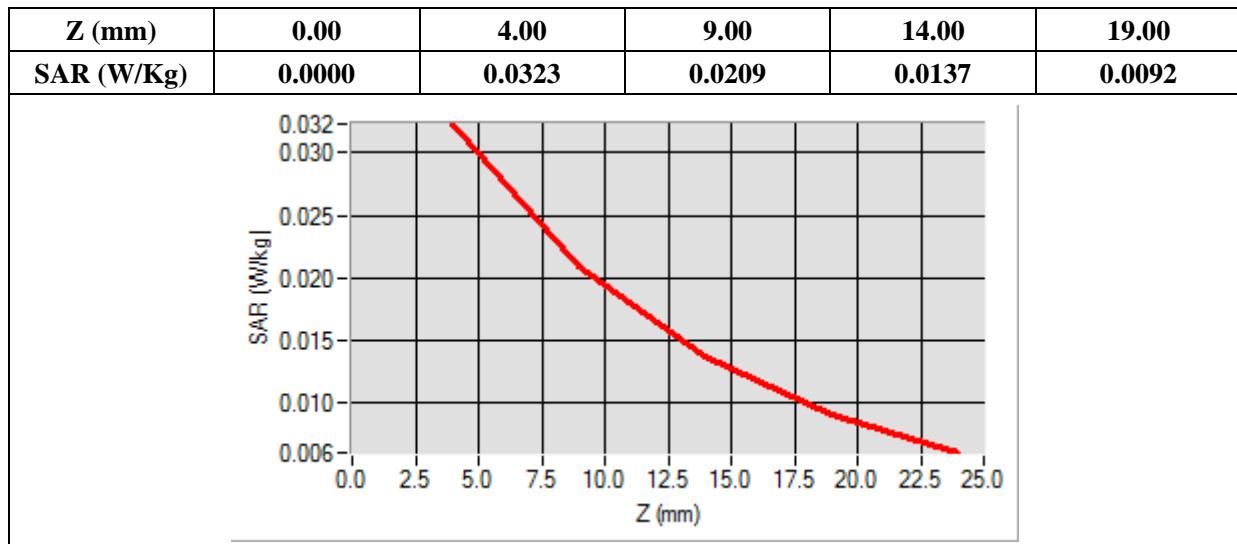
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	1.483733
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=14.00, Y=-7.00

SAR 10g (W/Kg)	0.018890
SAR 1g (W/Kg)	0.030279



MEASUREMENT 85

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

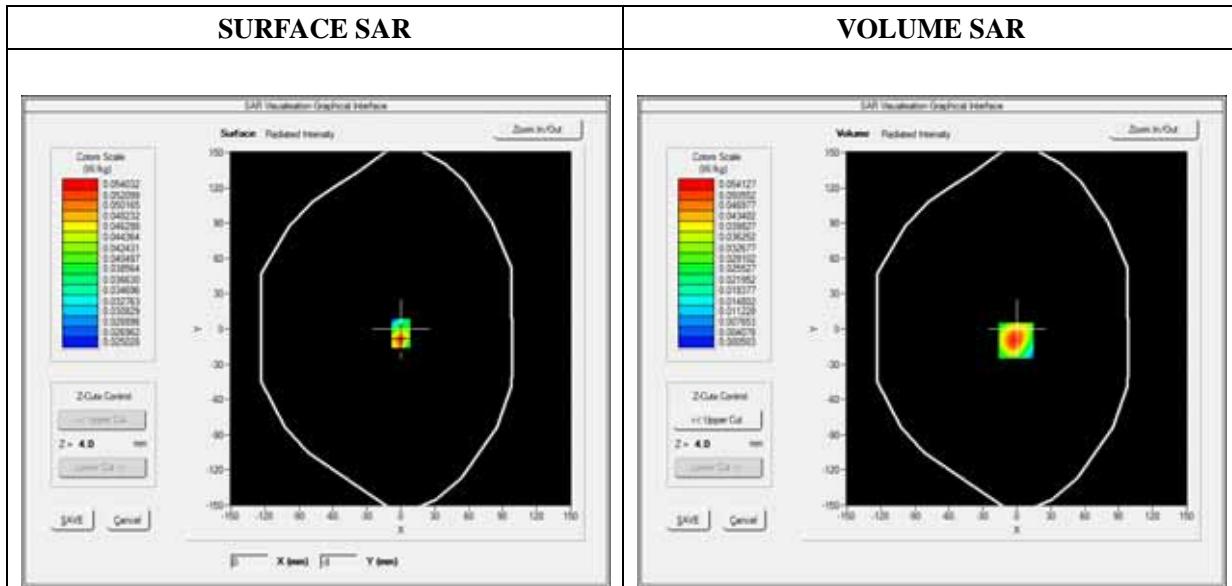
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat plane
Device Position	Left side
Band	GPRS1900_2TX
Channels	Middle
Signal	Duty Cycle 1:2

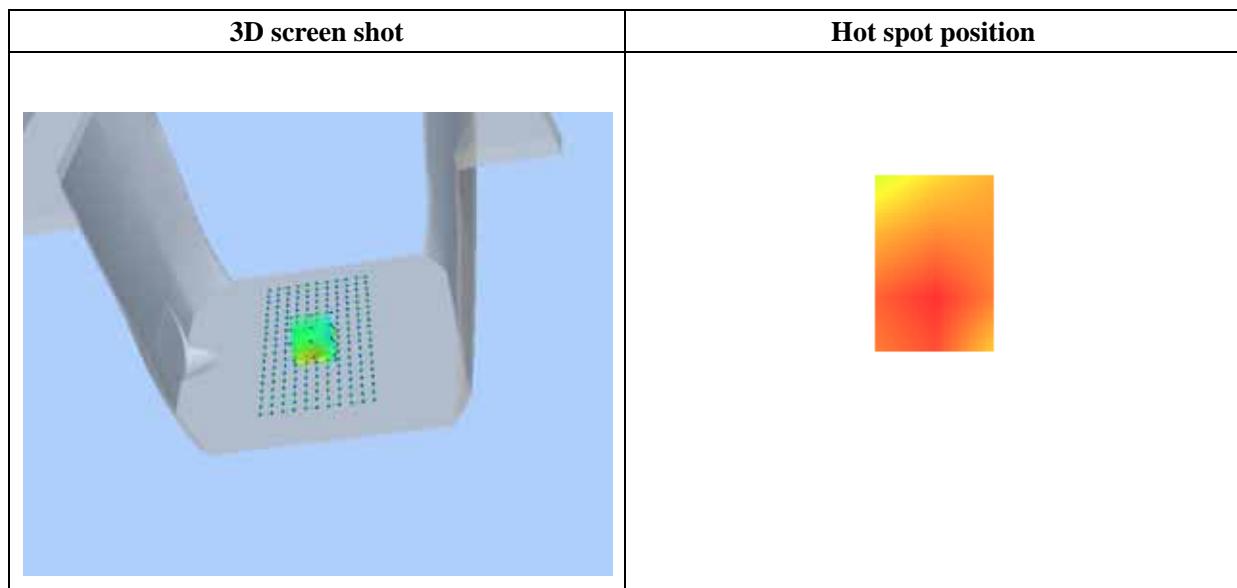
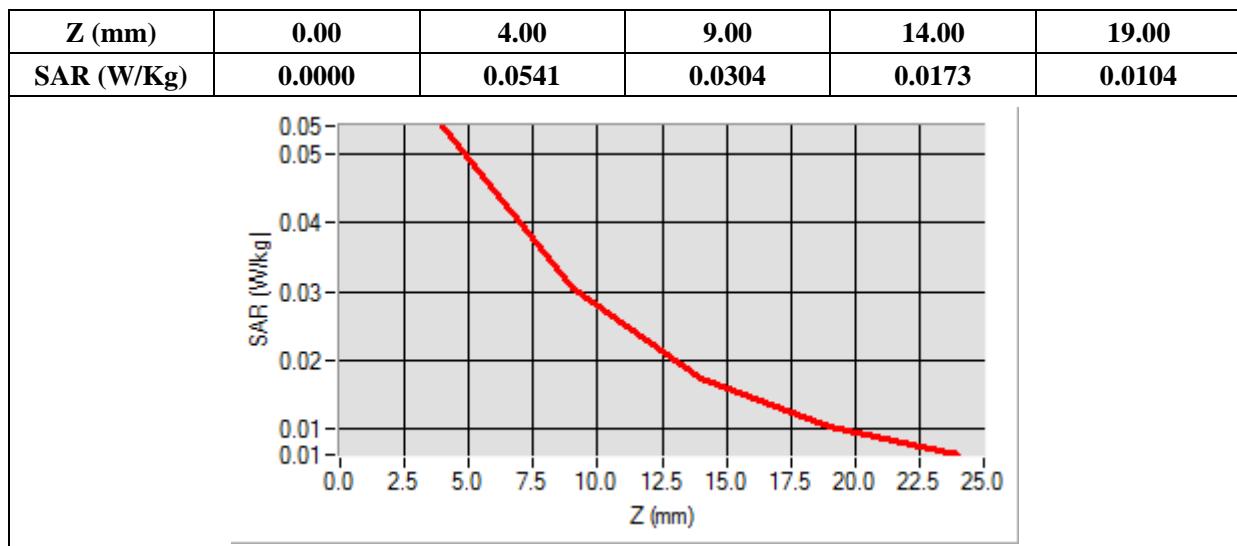
B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.89344
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-1.00, Y=-10.00

SAR 10g (W/Kg)	0.027356
SAR 1g (W/Kg)	0.049910



MEASUREMENT 86

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

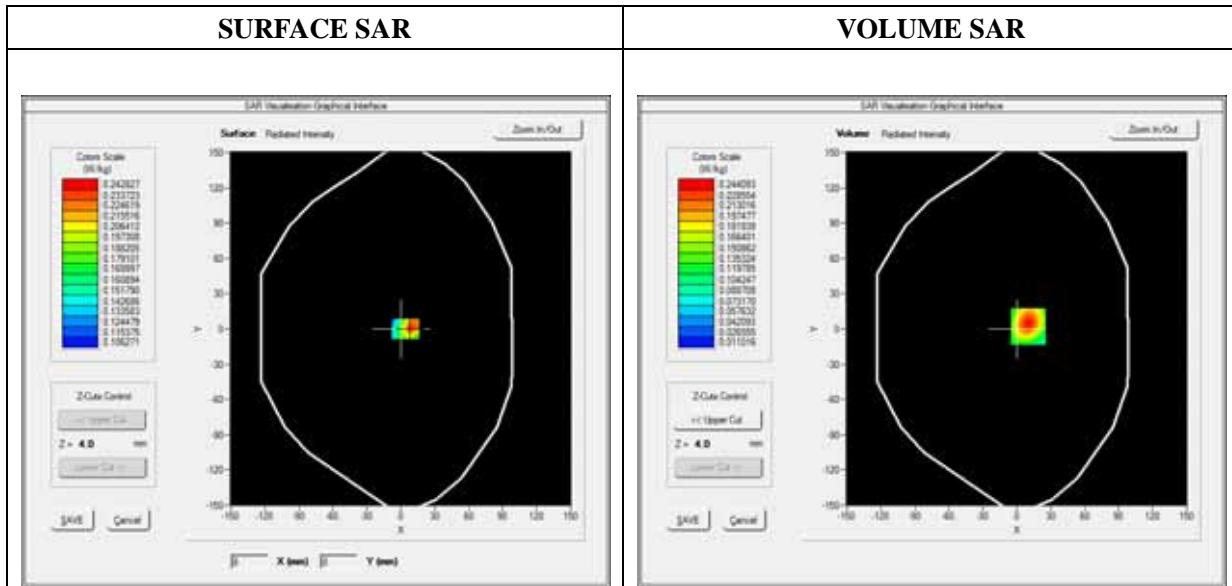
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

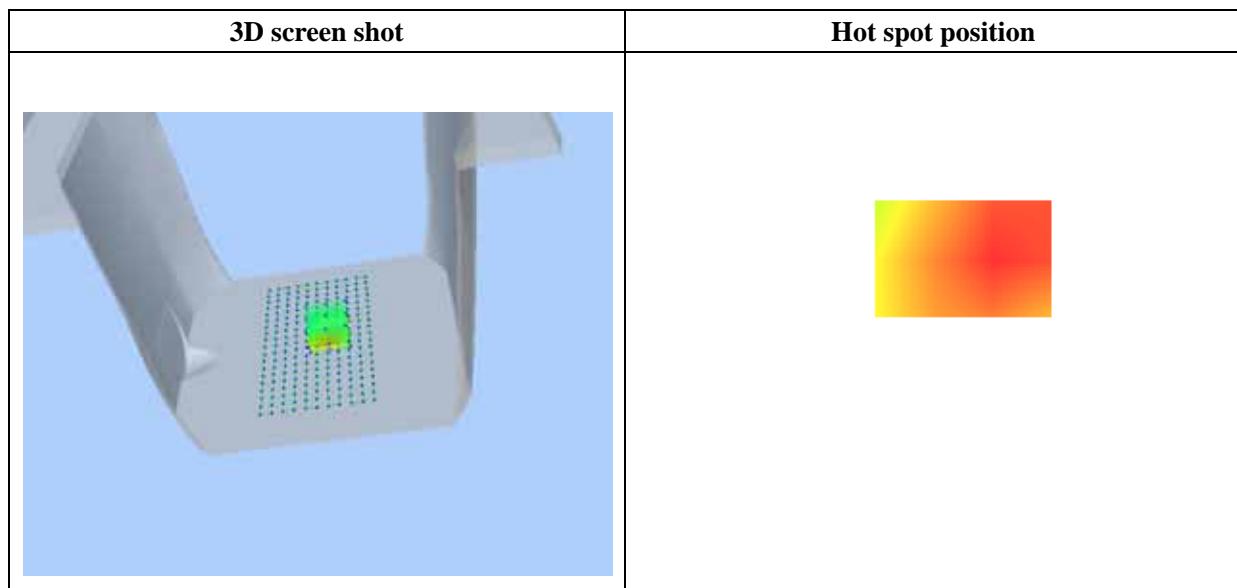
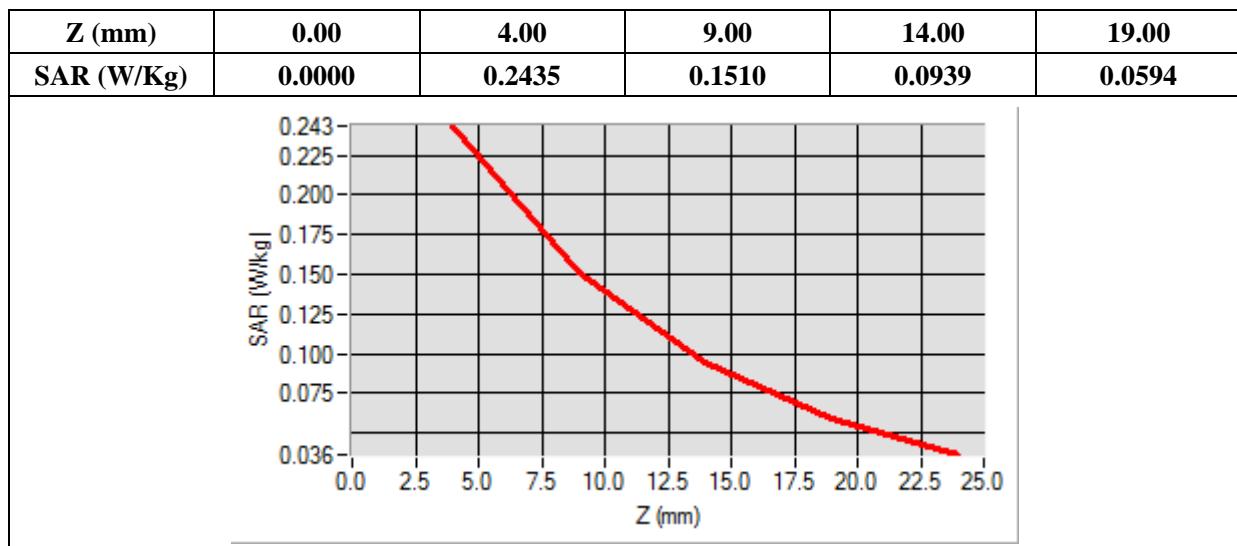
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.446245
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=10.00, Y=2.00

SAR 10g (W/Kg)	0.133122
SAR 1g (W/Kg)	0.228286



MEASUREMENT 87

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

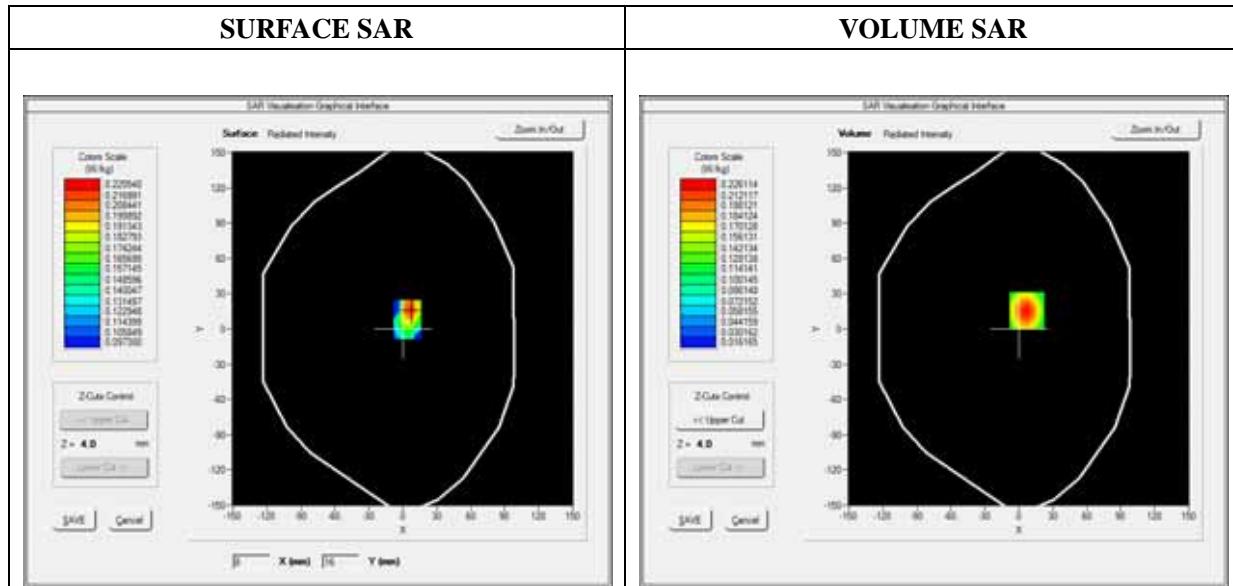
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

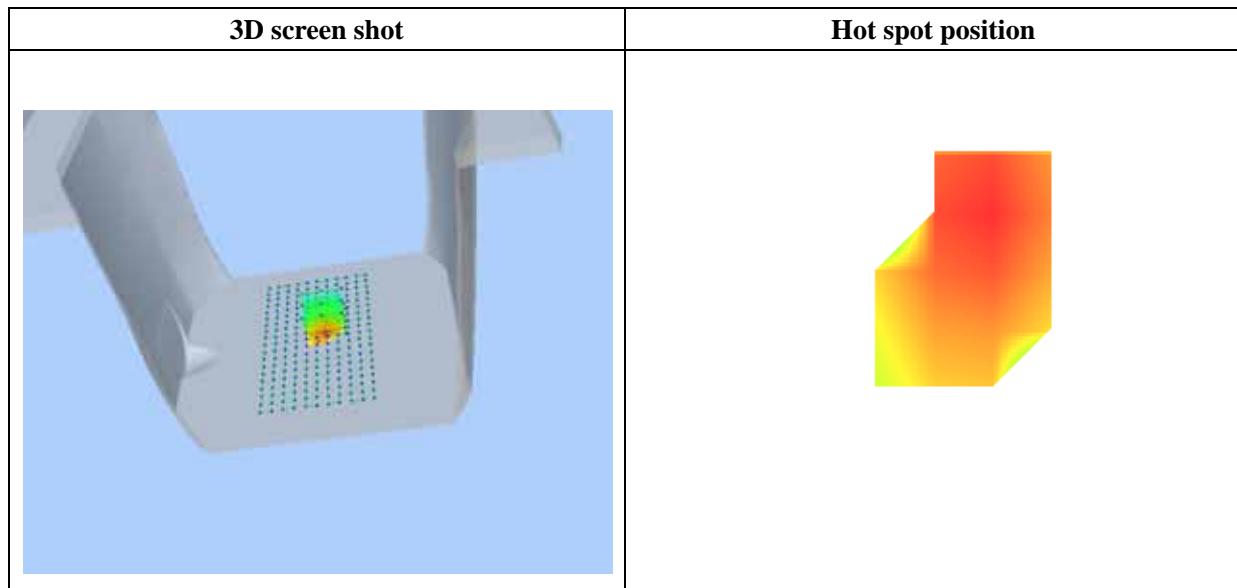
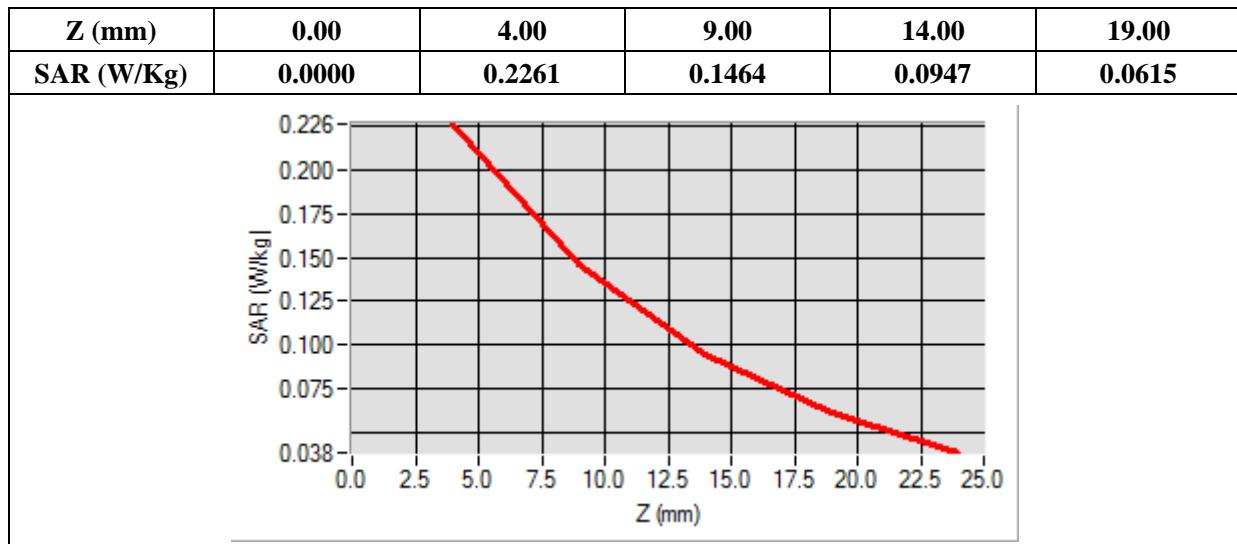
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.633624
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=7.00, Y=16.00

SAR 10g (W/Kg)	0.127049
SAR 1g (W/Kg)	0.210409



MEASUREMENT 88

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

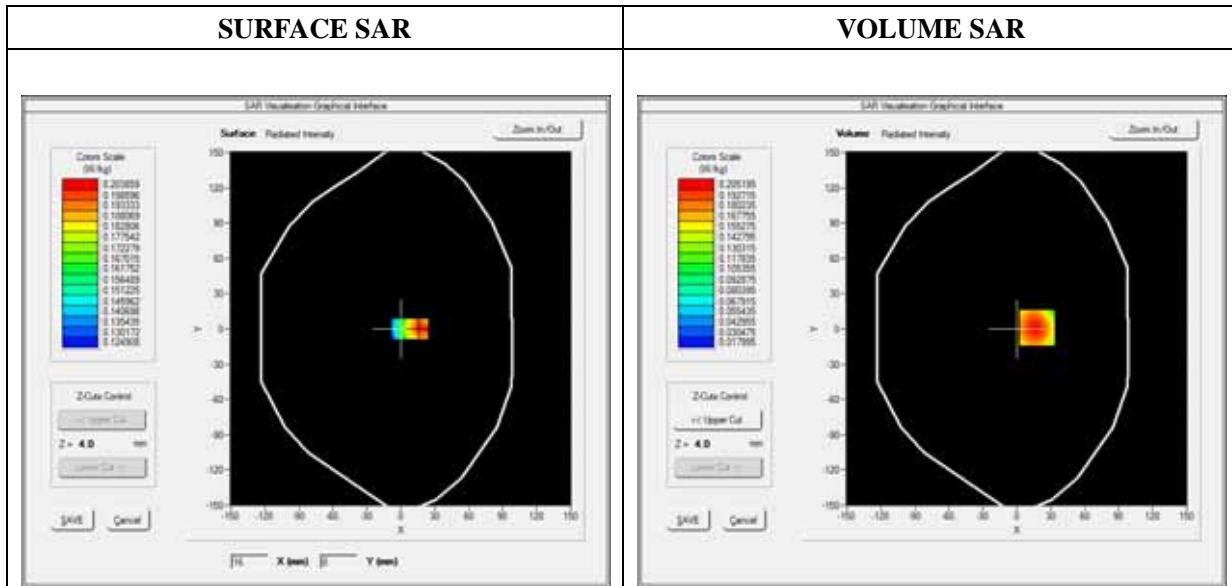
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

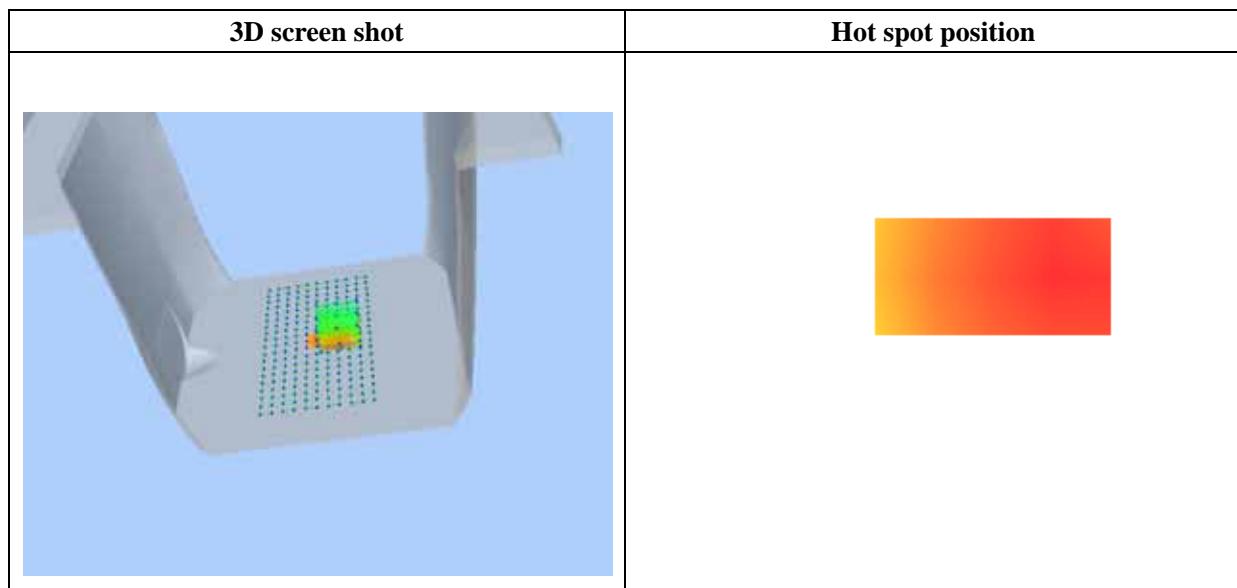
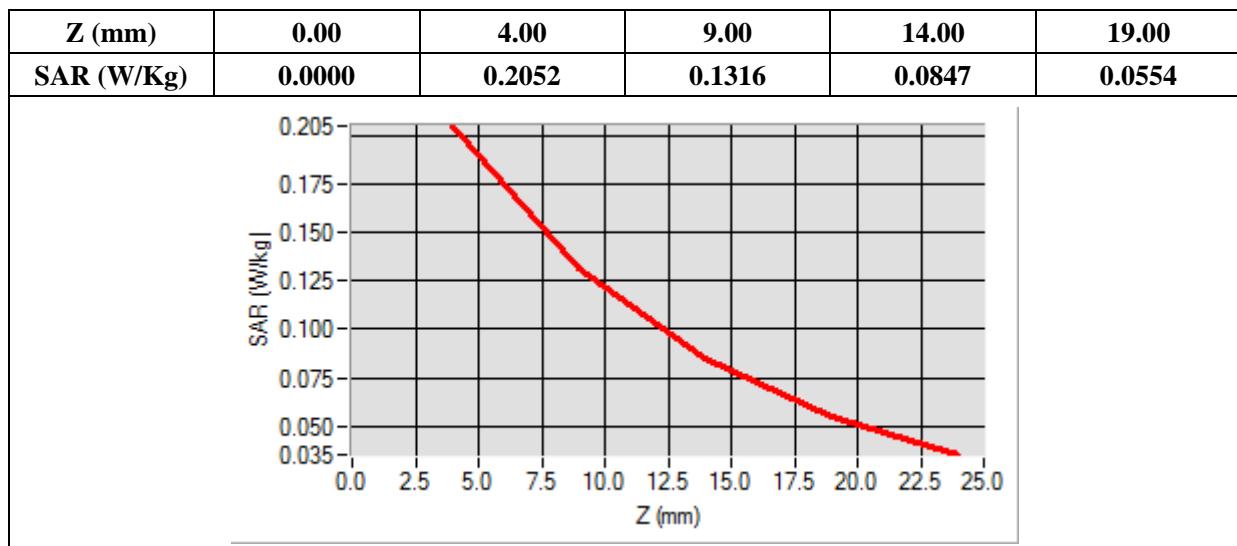
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	3.235724
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=18.00, Y=1.00

SAR 10g (W/Kg)	0.123293
SAR 1g (W/Kg)	0.194312



MEASUREMENT 89

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

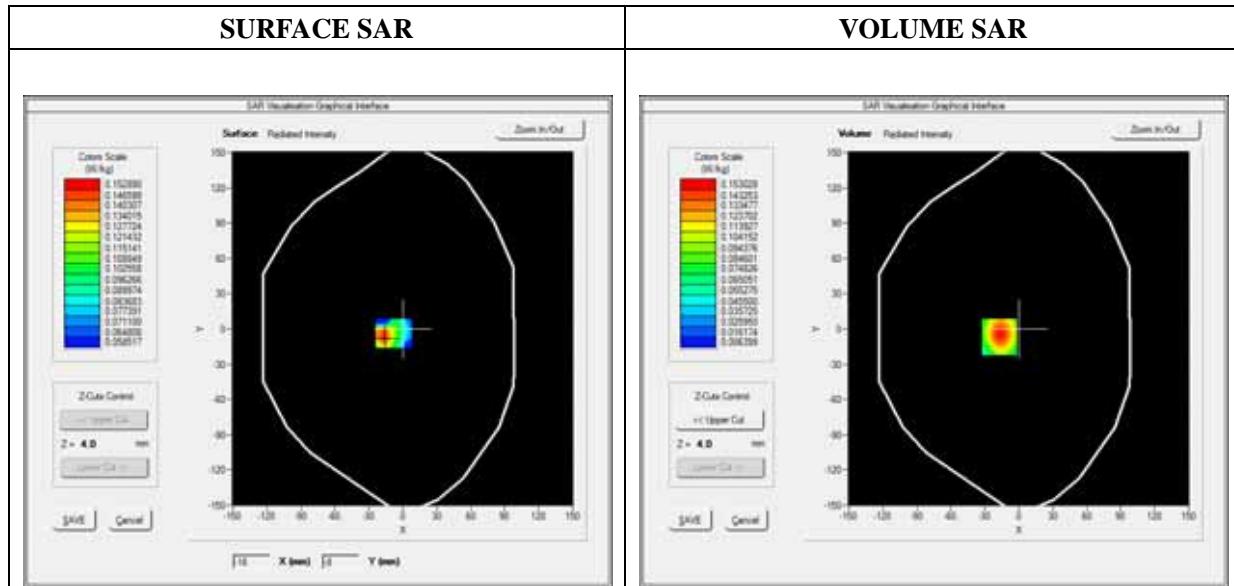
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

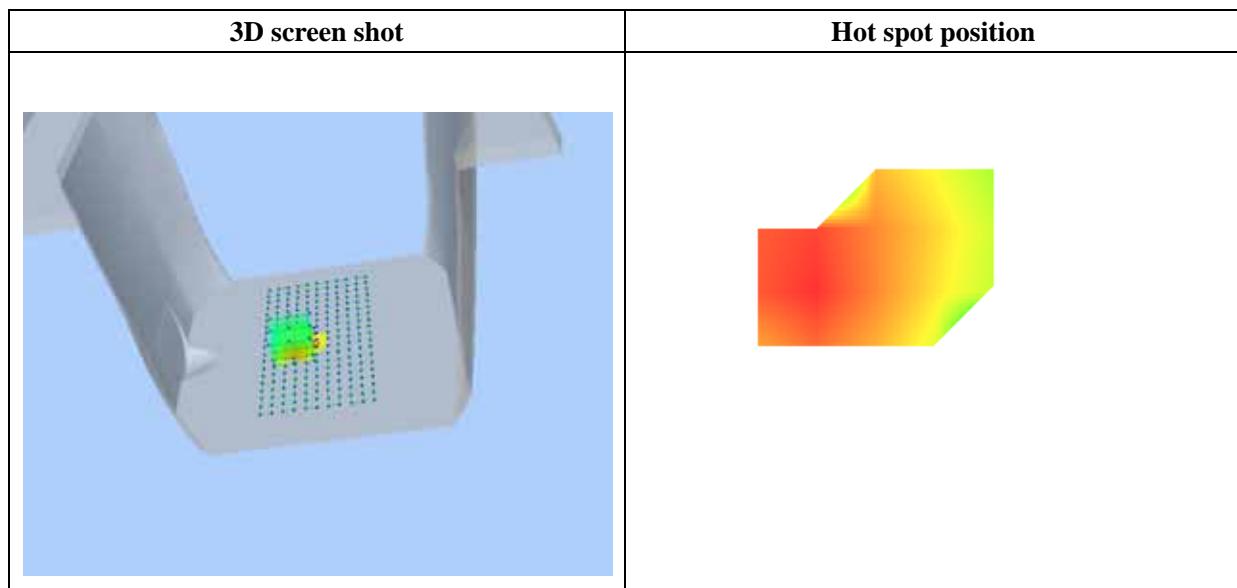
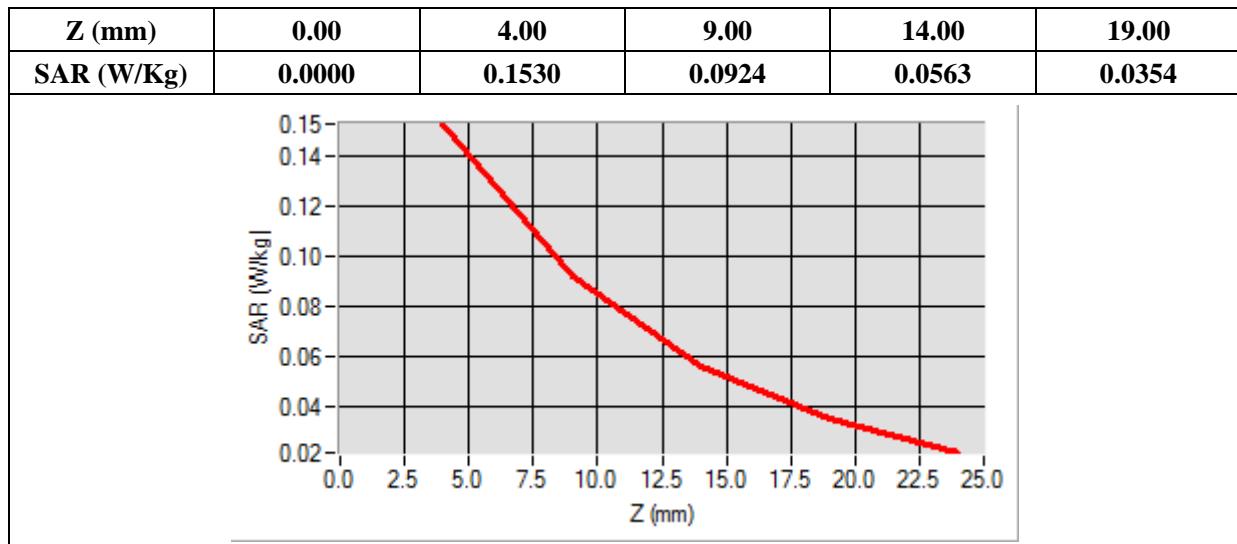
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	0.594566
Ambient Temperature	21.1
Liquid Temperature	21.3



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

SAR 10g (W/Kg)	0.083473
SAR 1g (W/Kg)	0.143223



MEASUREMENT 90

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

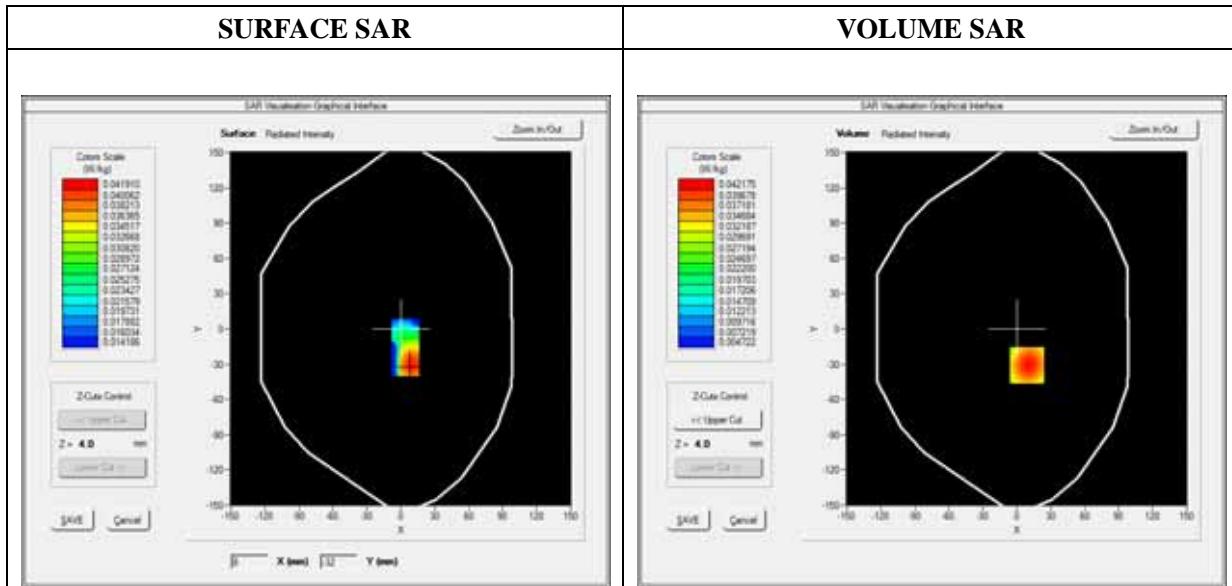
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

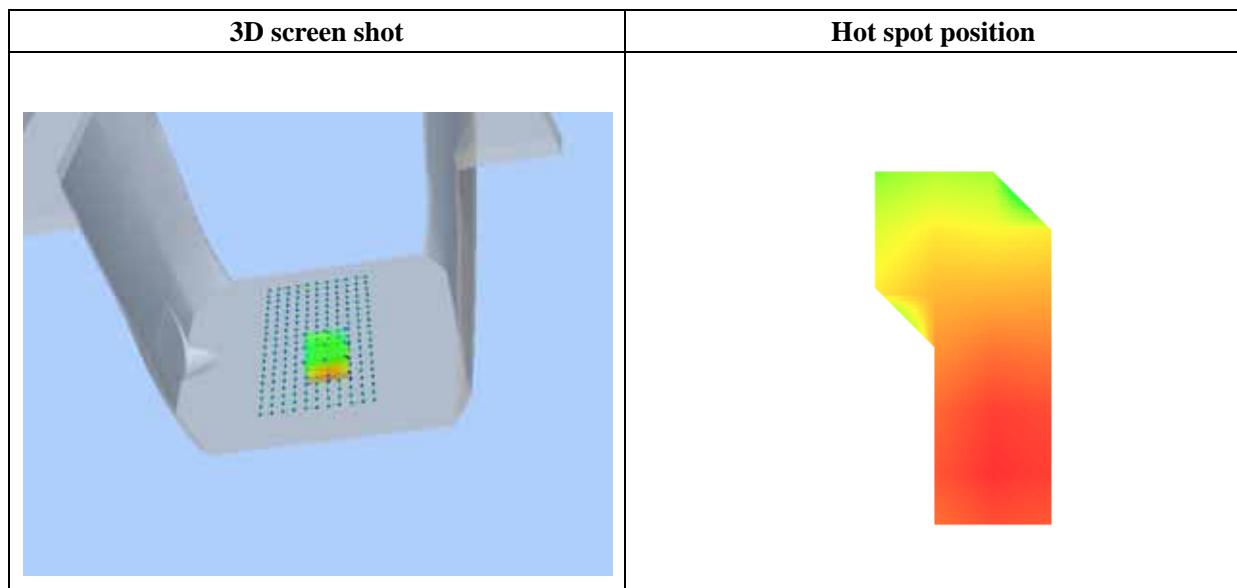
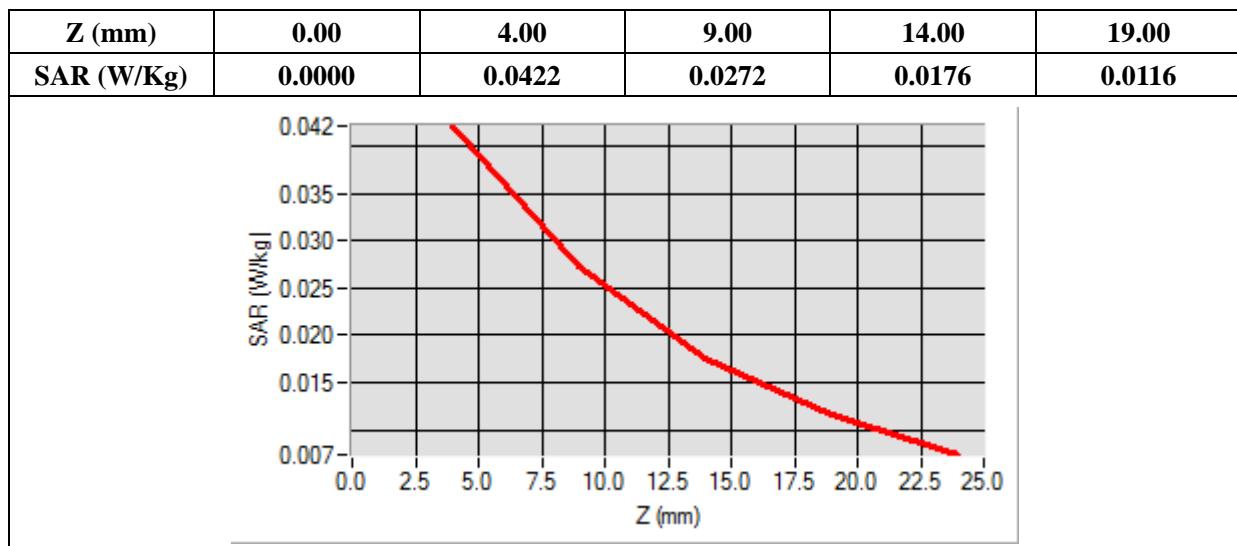
B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	52.420415
Conductivity (S/m)	1.501966
Power Variation (%)	2.452244
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=9.00, Y=-31.00

SAR 10g (W/Kg)	0.025320
SAR 1g (W/Kg)	0.039920



MEASUREMENT 91

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

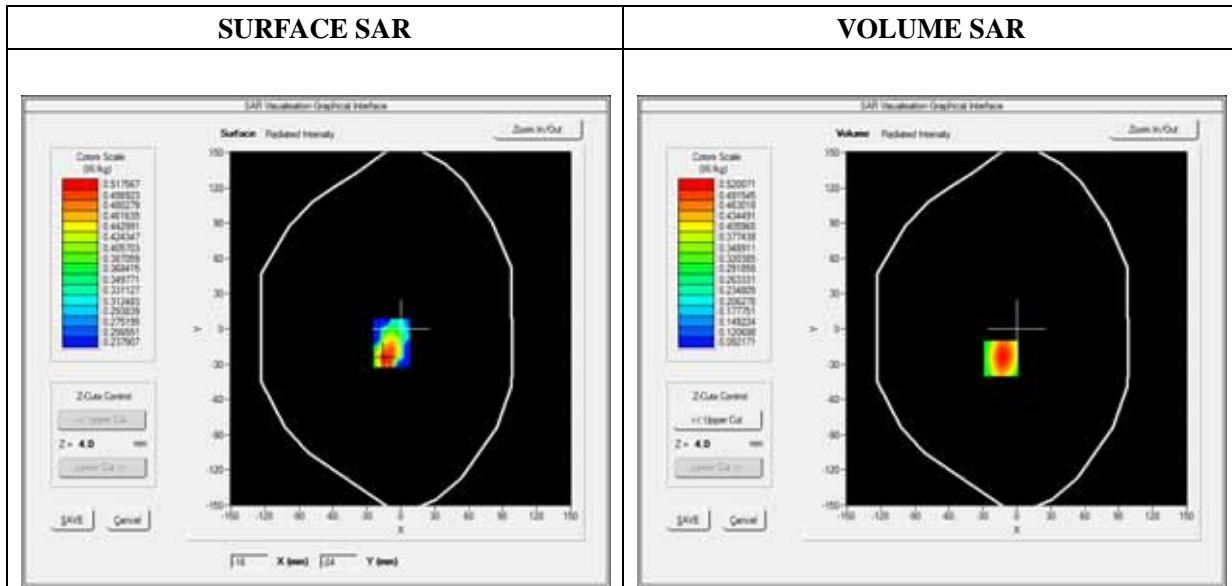
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

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

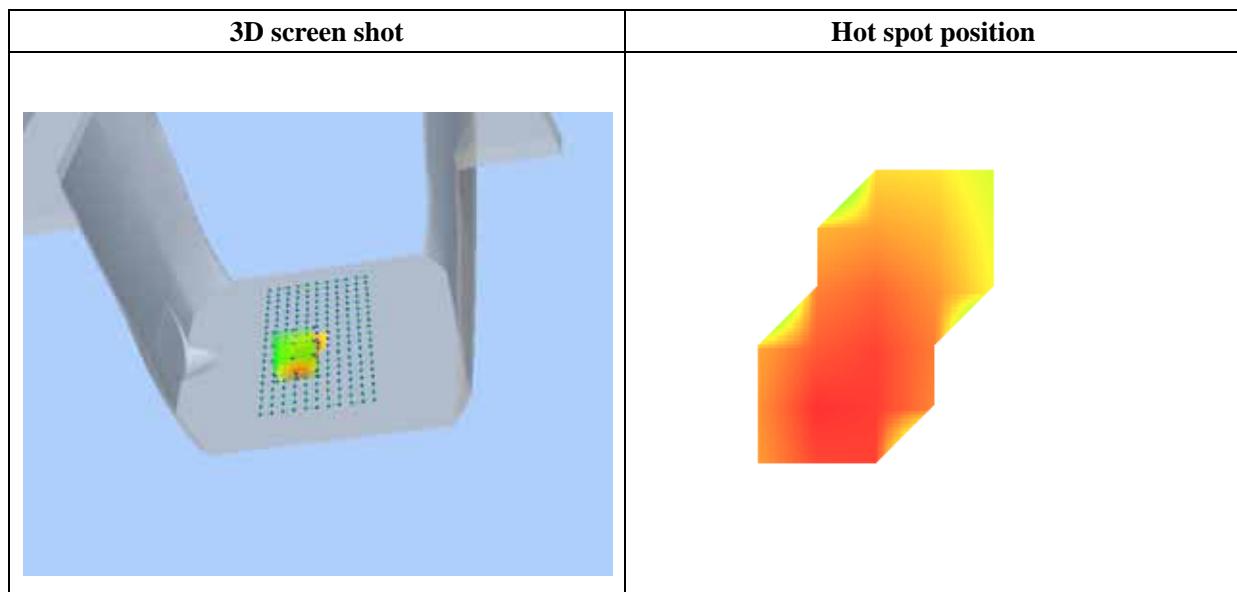
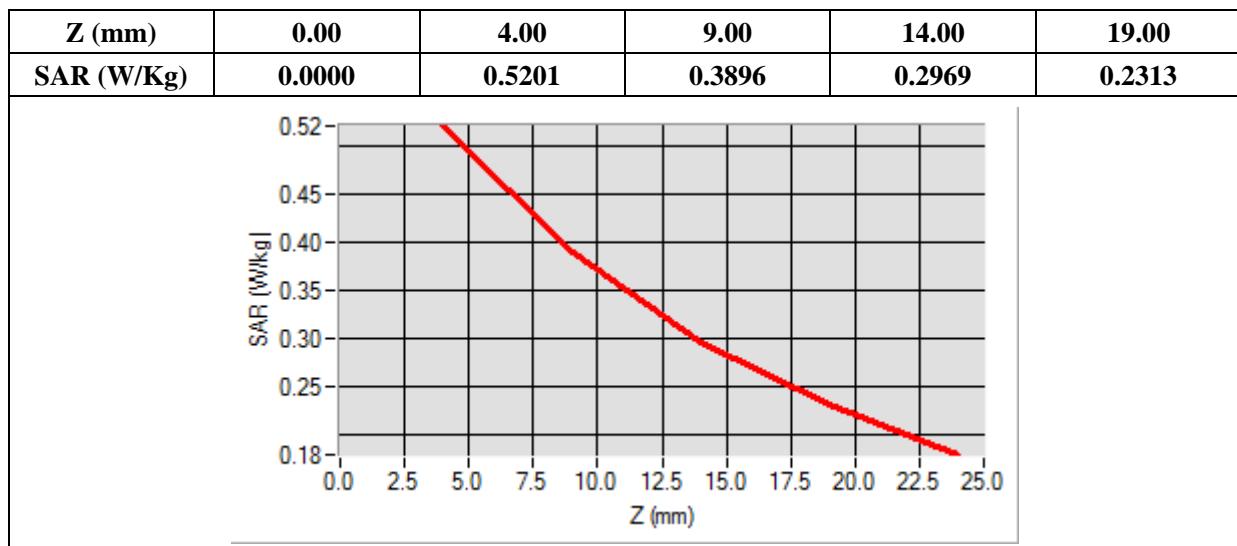
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	1.438266
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-14.00, Y=-25.00

SAR 10g (W/Kg)	0.351927
SAR 1g (W/Kg)	0.495765



MEASUREMENT 92

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

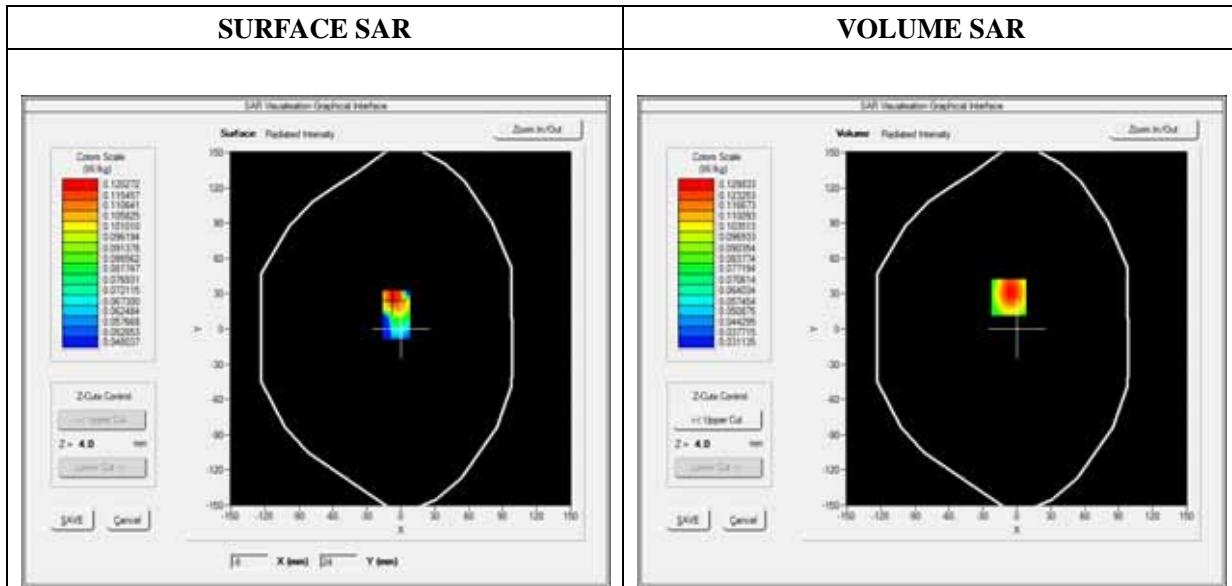
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

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

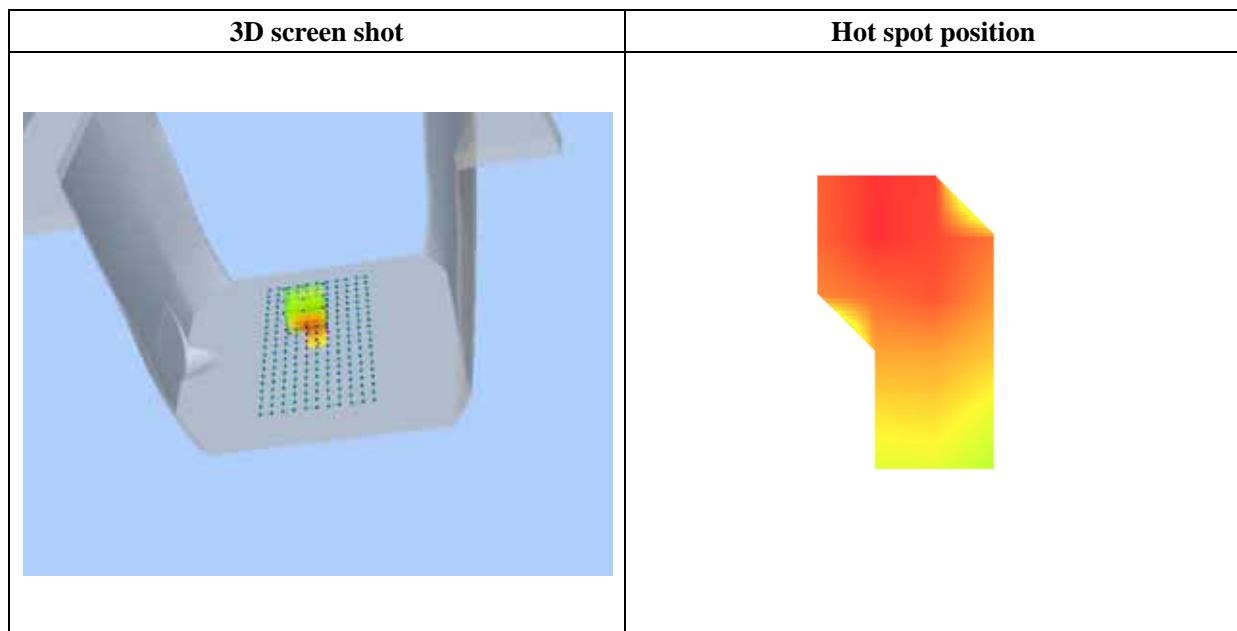
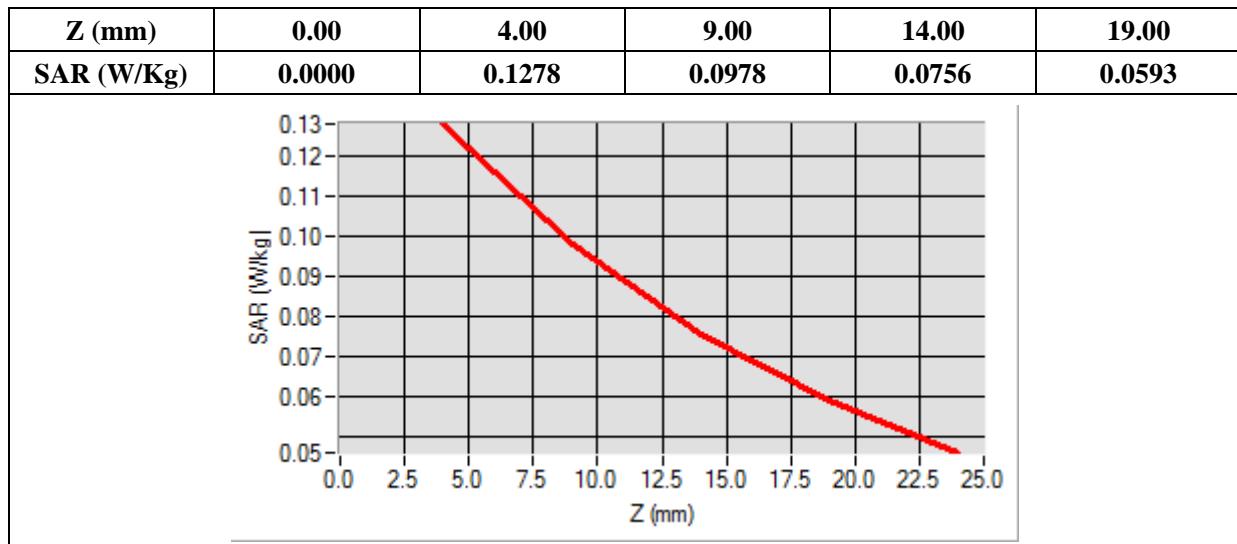
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.89384
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-7.00, Y=27.00

SAR 10g (W/Kg)	0.089919
SAR 1g (W/Kg)	0.124222



MEASUREMENT 93

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

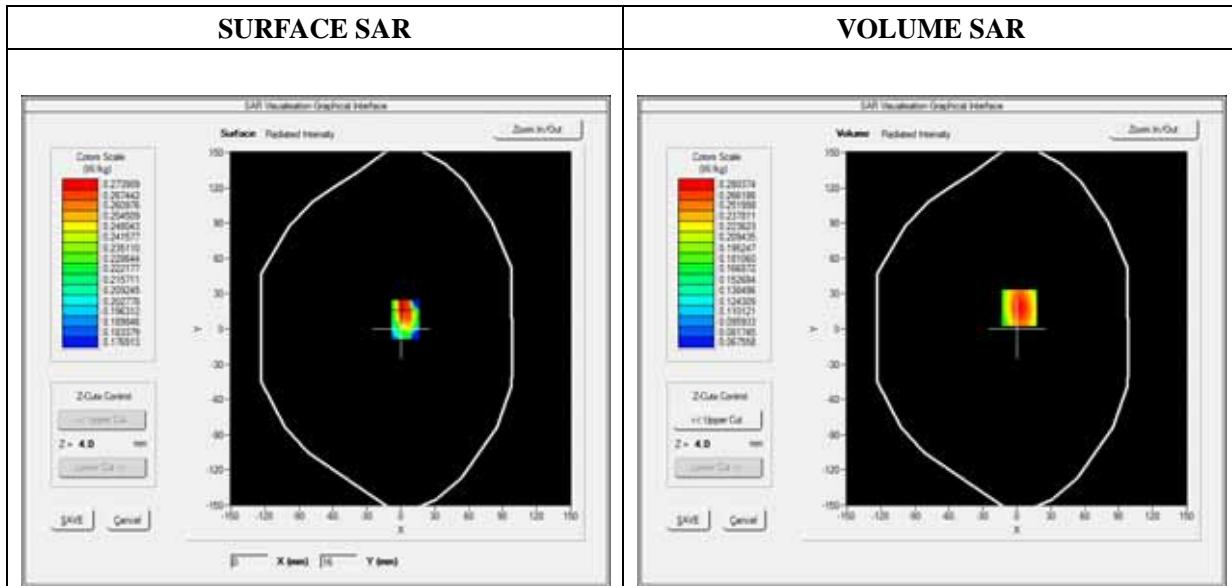
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

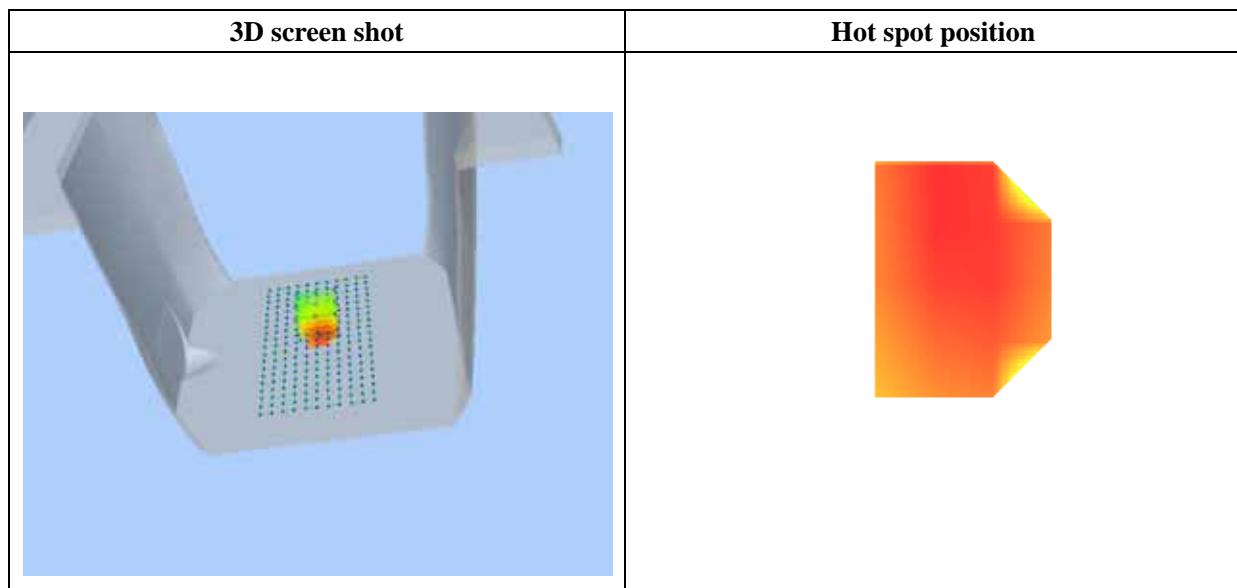
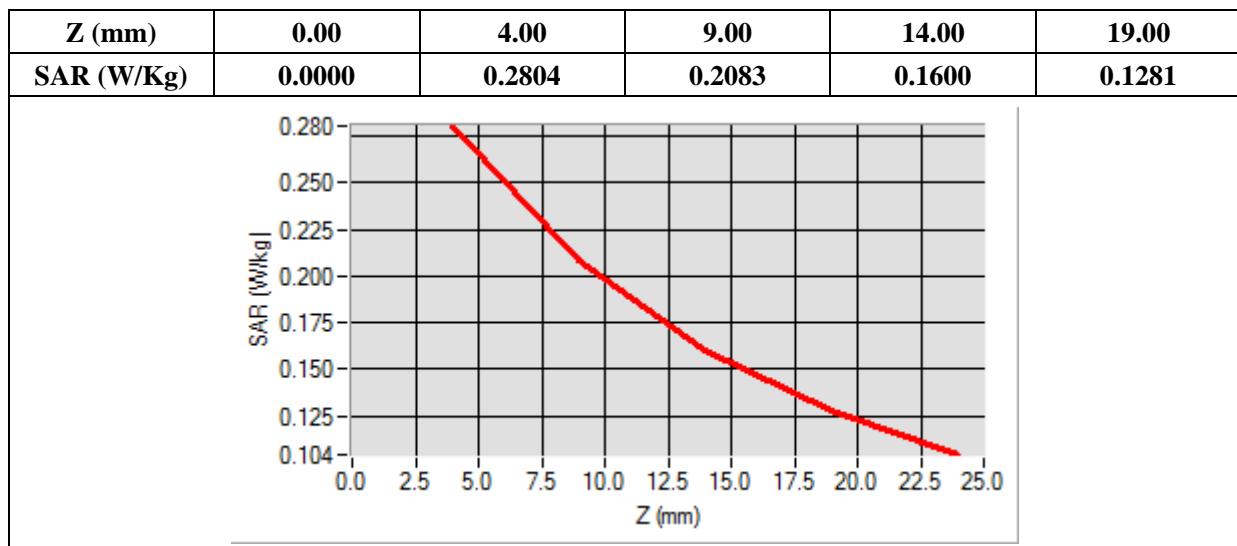
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	1.392722
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=2.00, Y=18.00

SAR 10g (W/Kg)	0.193057
SAR 1g (W/Kg)	0.267160



MEASUREMENT 94

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

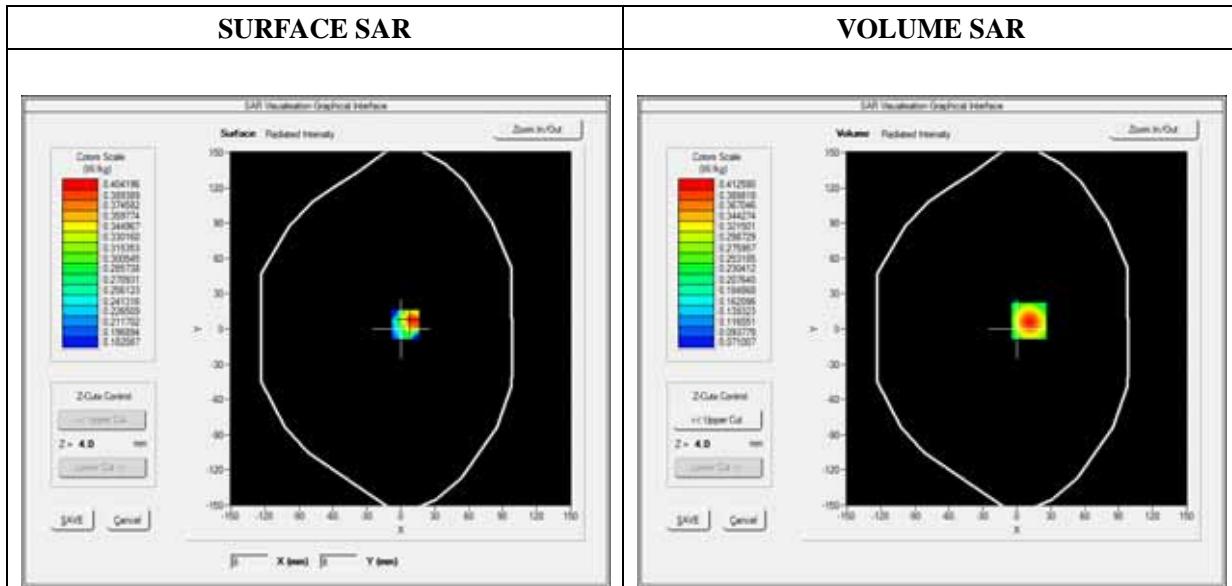
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

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

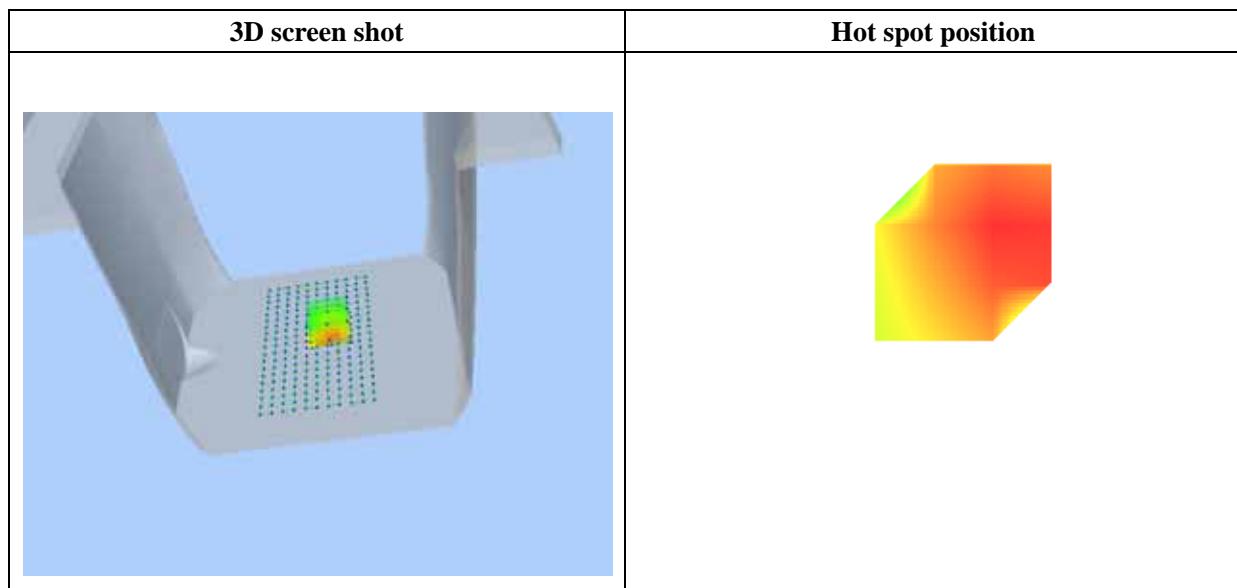
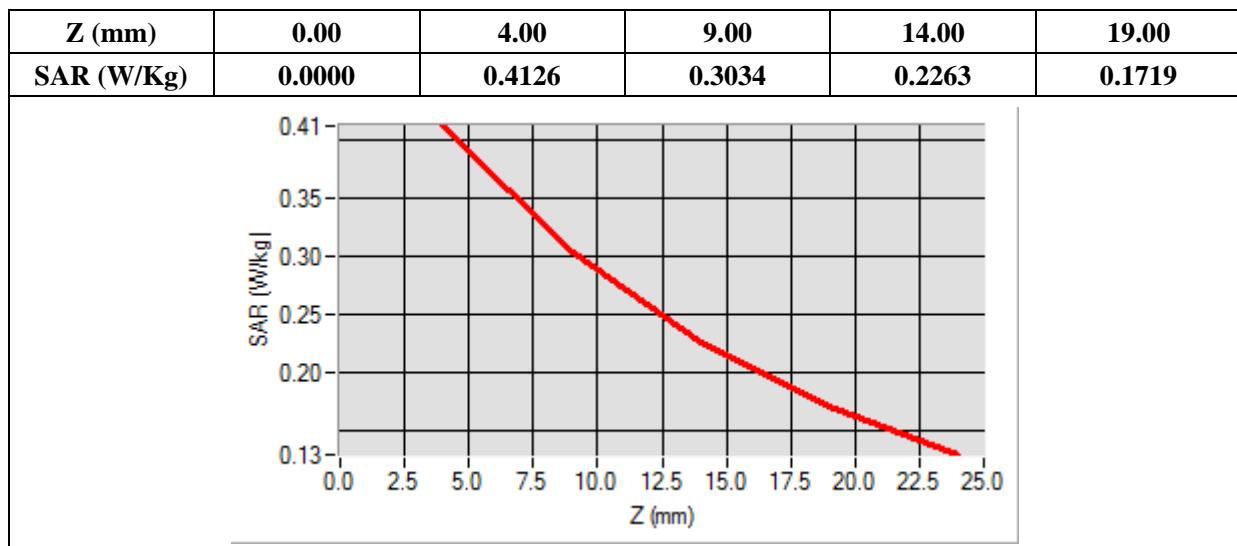
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.846733
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=11.00, Y=7.00

SAR 10g (W/Kg)	0.260405
SAR 1g (W/Kg)	0.385648



MEASUREMENT 95

Type: Phone measurement (Complete)

Date of measurement: 06/12/2015

Measurement duration: 12 minutes 3 seconds

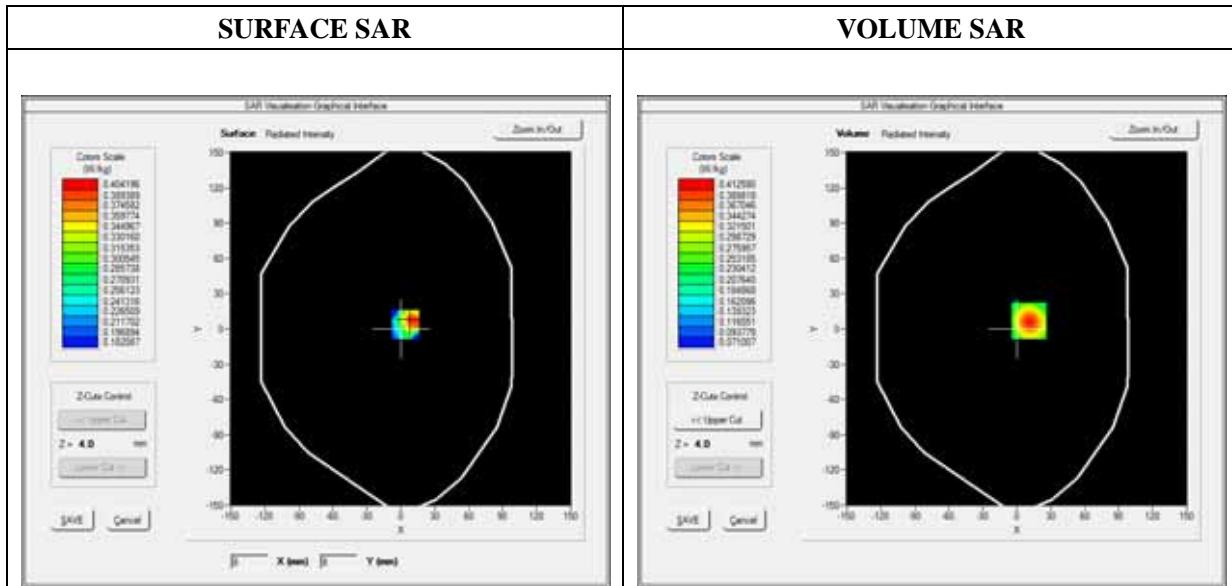
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

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

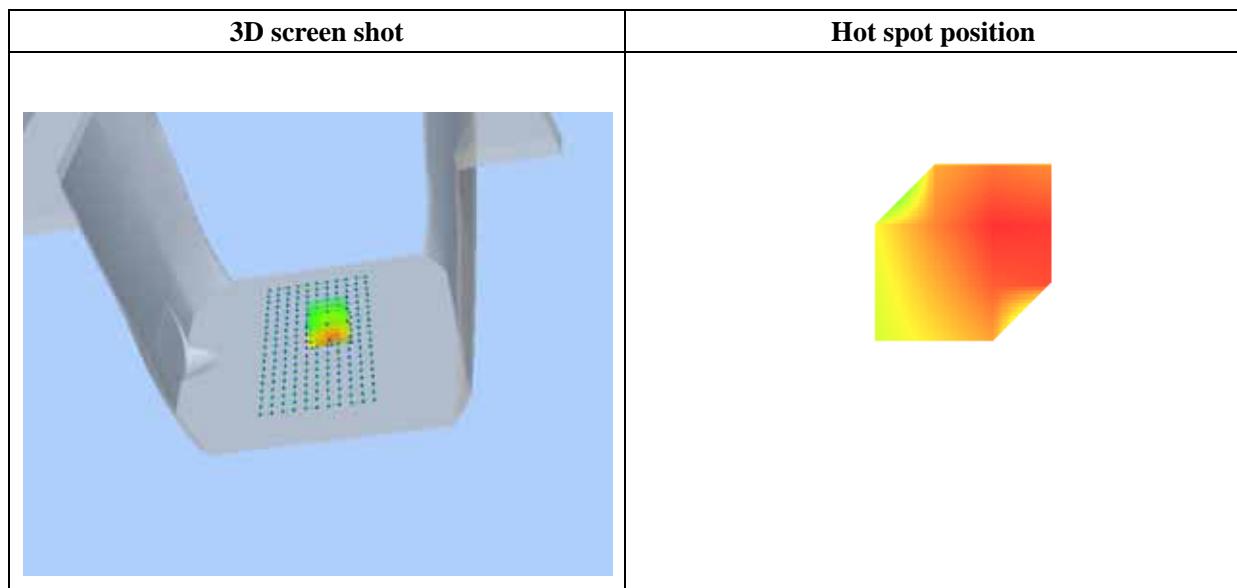
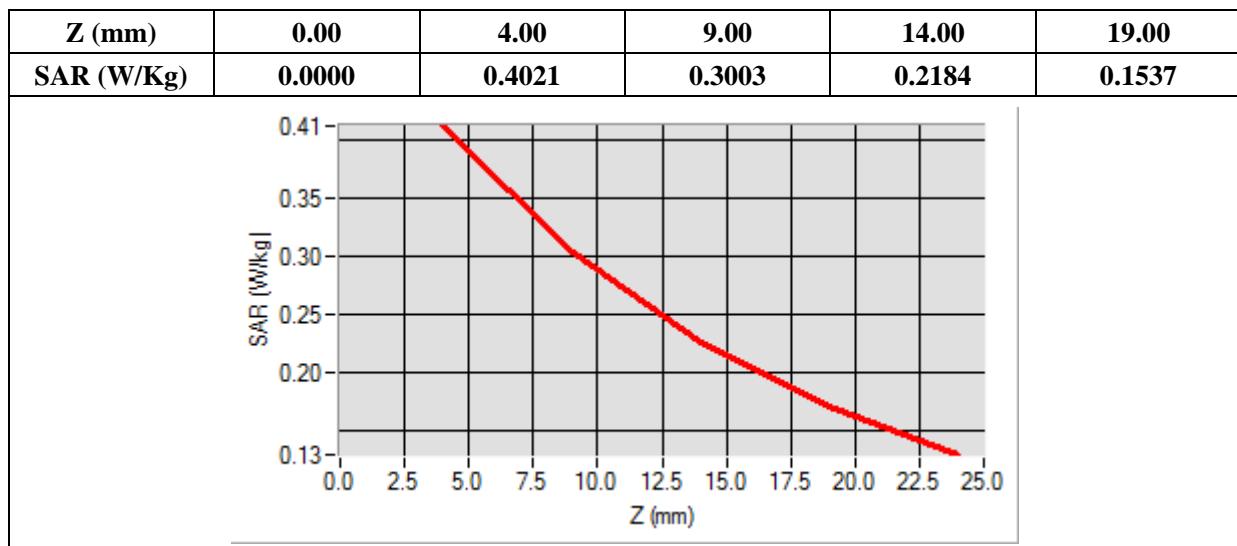
B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.945768
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=11.00, Y=7.00

SAR 10g (W/Kg)	0.234572
SAR 1g (W/Kg)	0.352840



Annex C. EUT Photos

EUT View Front



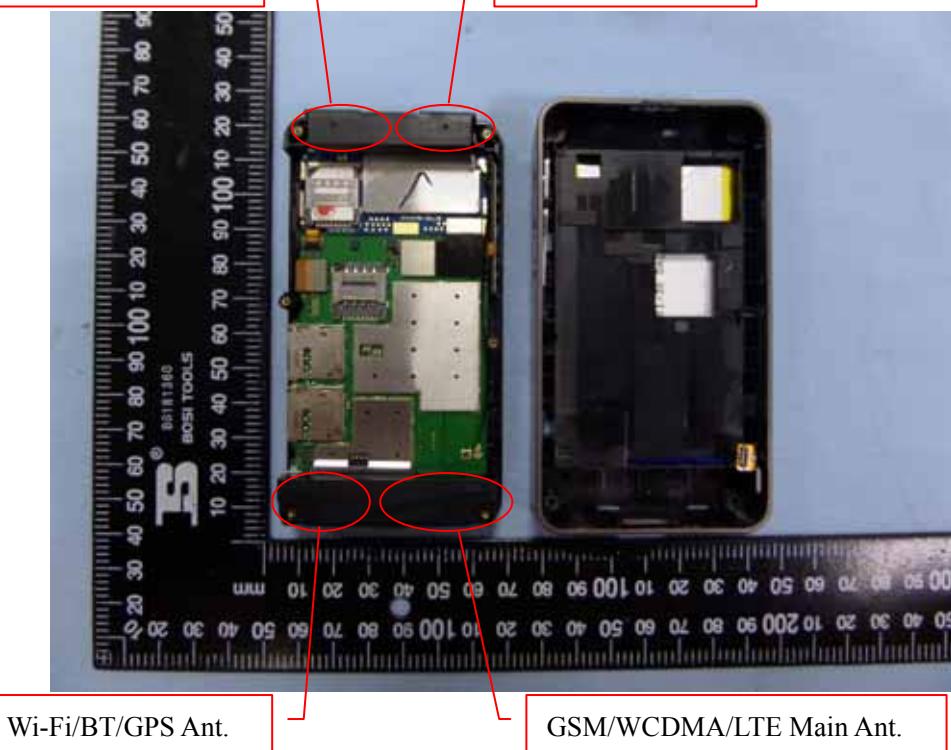
EUT View Back



Antenna View

GSM/WCDMA Vice Ant.

LTE Diversity Ant.



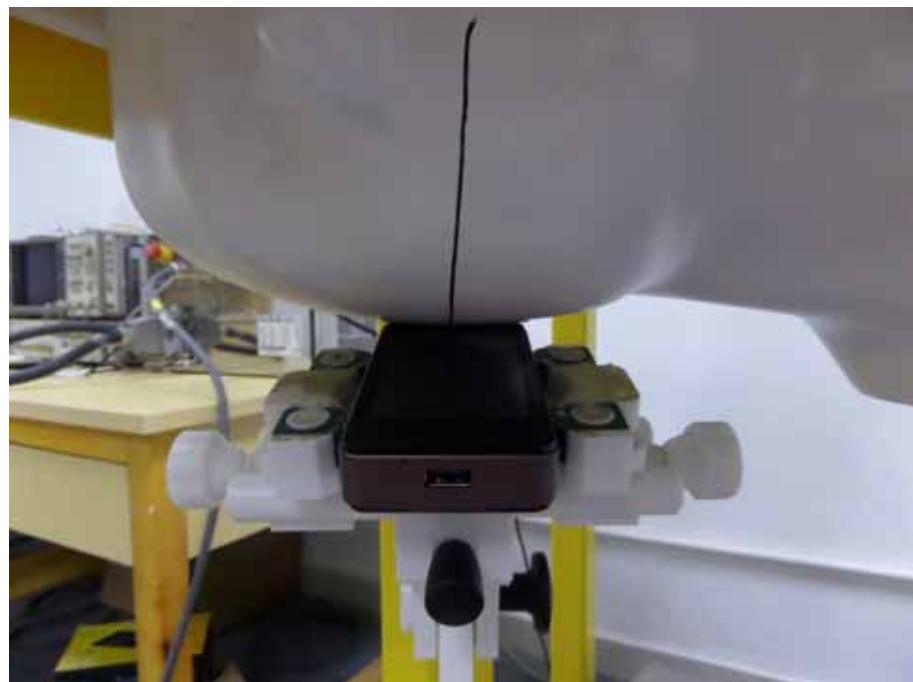
Annex D. Test Setup Photos

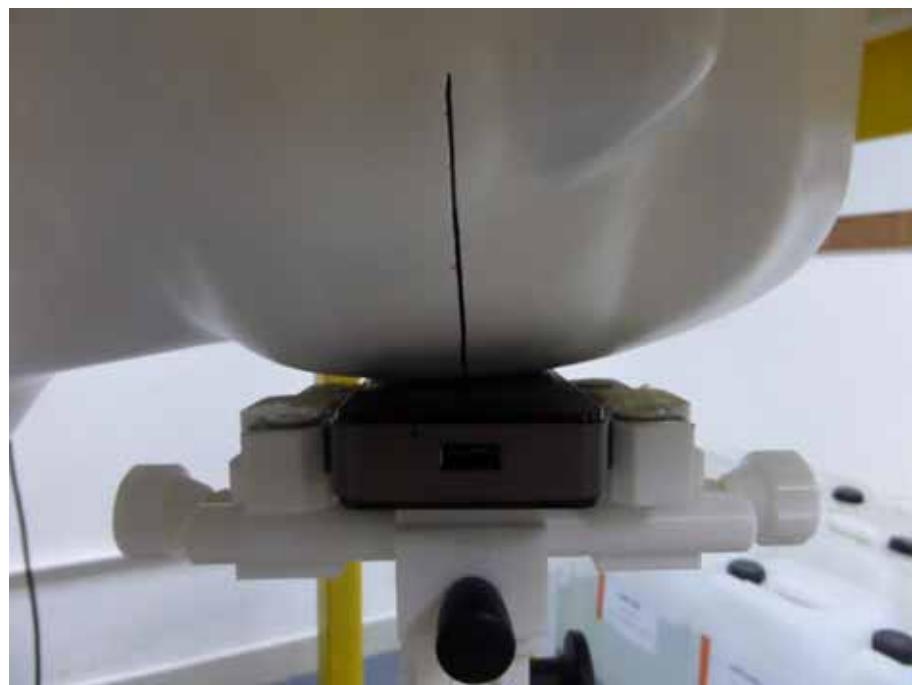
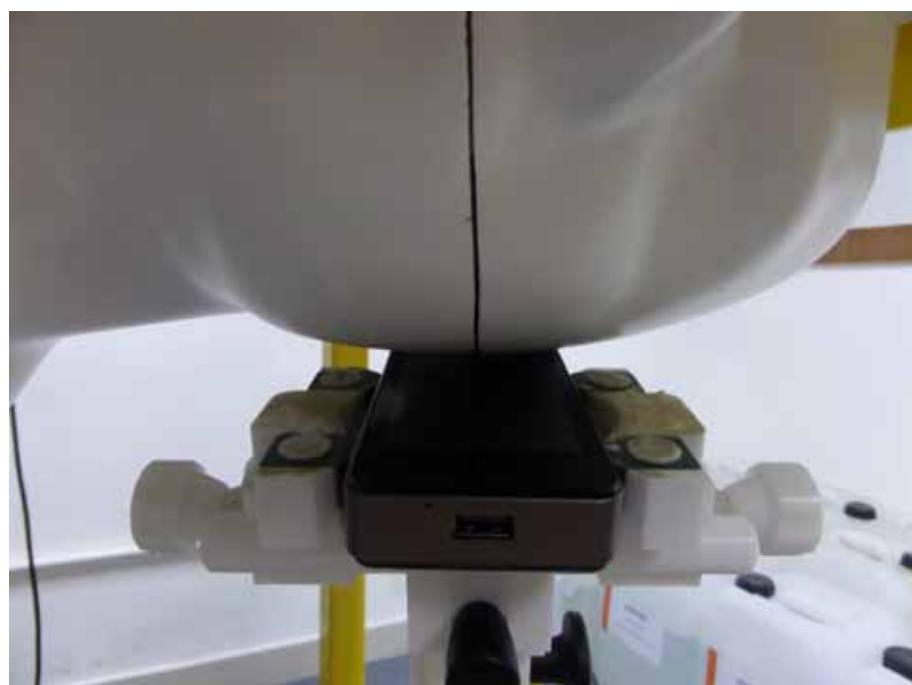
Test View 1 (Right Head)

Cheek

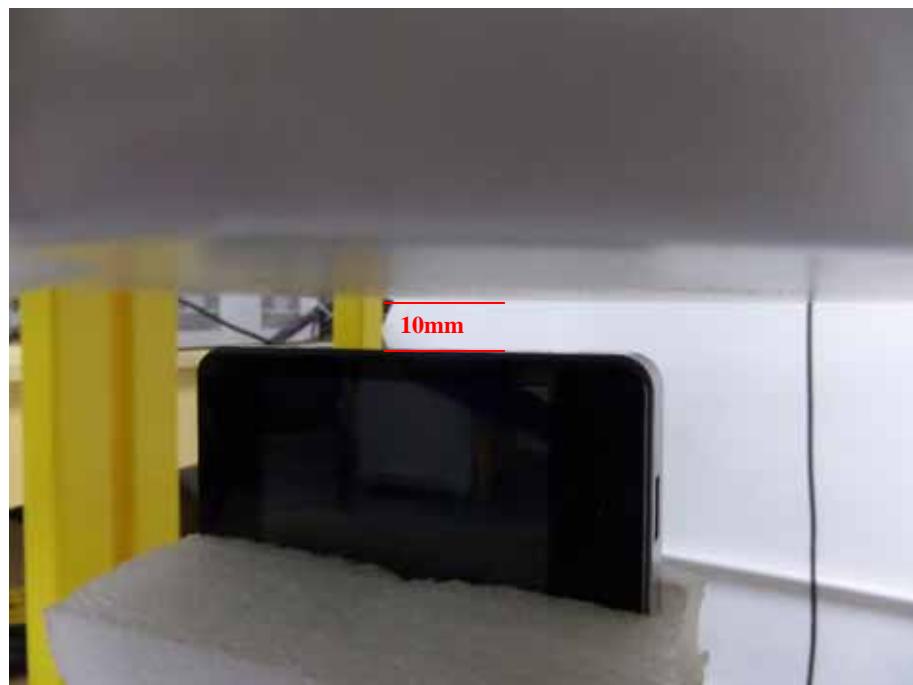
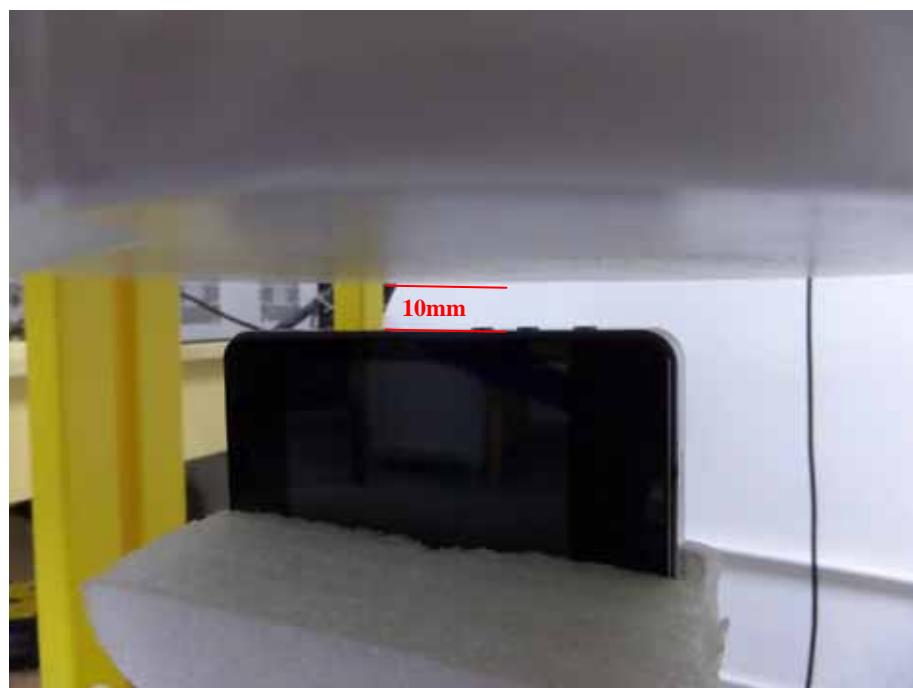


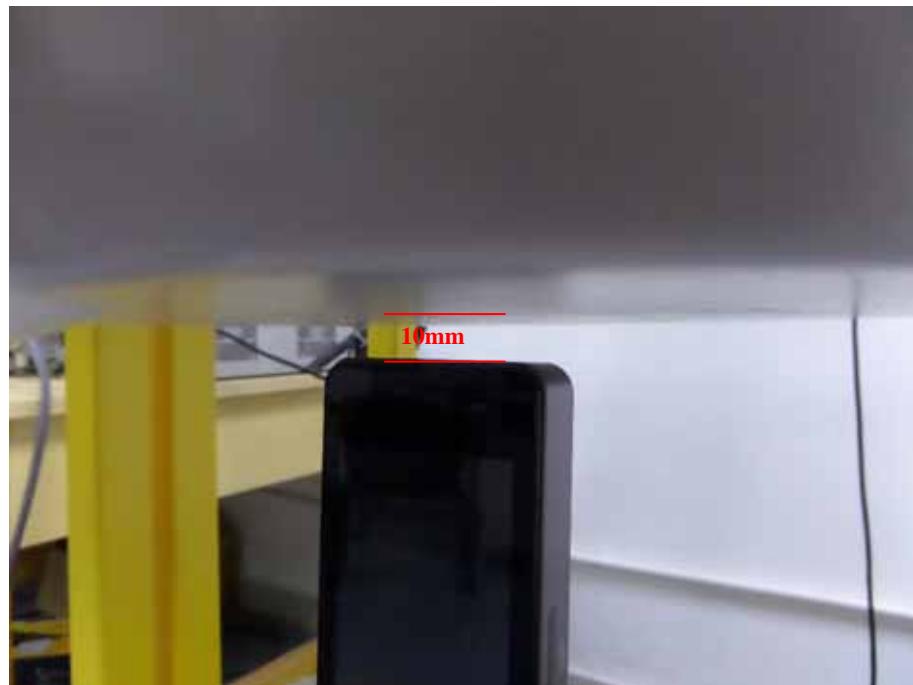
Tilt



Test View 2 (Left Head)**Cheek****Tilt**

Test View 3**Front Side****Back Side**

Right side**Left side**

Top Side**Bottom Side**

Annex E. Calibration Certificate

Please refer to the exhibit for the calibration certificate

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