

FCC SAR

Measurement and Test Report

For

JALA ASIA LTD.

SUITE 1004, 10TH ELOOR, BANK OF AMERICA TOWER, 12
HARCOURT ROAD, CENRAL, HONGKONG

FCC ID: 2AFYR-ENTELE6

| | |
|--------------------------------------|---|
| Test Standards: | FCC Part 2.1093 ANSI / IEEE C95.1 :2005 ANSI / IEEE C95.3 :2002 <u>IEEE 1528 :2013</u> |
| Product Description: | <u>Smart Phone</u> |
| Tested Model: | <u>Entel E6</u> |
| Report No.: | <u>STR15098140H</u> |
| Tested Date: | <u>2015-09-28 to 2015-09-30</u> |
| Issued Date: | <u>2015-10-08</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: JALA ASIA LTD.
Address of applicant: SUITE 1004, 10TH ELOOR, BANK OF AMERICA TOWER, 12
HARCOURT ROAD, CENRAL, HONGKONG
Manufacturer: JALA ASIA LTD.
Address of manufacturer: SUITE 1004, 10TH ELOOR, BANK OF AMERICA TOWER, 12
HARCOURT ROAD, CENRAL, HONGKONG

| General Description of EUT: | |
|---|------------------------|
| Product Name: | Smart Phone |
| Brand Name: | / |
| Model No.: | Entel E6 |
| Hardware version: | HCT-T925MB-B1 |
| Software version: | V158.F3P.1.07092015 |
| Rated Voltage: | DC 3.7V Li-ion Battery |
| Battery Capacity: | 1800mAh |
| Device Category: | Portable Device |
| <i>The EUT Main board support GSM850/900/DCS1800/PCS1900, WCDMA Band 2/4/5, LTE Band 2/4/5 function. It is intended for speech, Multimedia Message Service (MMS) transmission and Entel E6. It is equipped with GPRS/EDGE class 12 for GSM850/900/DCS1800/PCS1900, GPS, FM, Bluetooth and Wi-Fi 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: | |
|--|---|
| 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: 32.04dBm, GSM1900: 28.63dBm EDGE850: 25.74dBm, EDGE1900: 24.67dBm |
| Type of Modulation: | GMSK, 8PSK |
| Type of Antenna: | Integral Antenna |
| Antenna Gain: | GSM850: 0dBi GSM1900: 0dBi |
| GRPS/EDGE Class: | Class 12 |
| 3G | |
| Support Networks: | WCDMA, HSDPA, HSUPA |
| Support Band: | WCDMA Band 2, WCDMA Band 4, WCDMA Band 5 |
| Uplink Frequency: | WCDMA Band 2: 1850~1910MHz WCDMA Band 4: 1710~1755MHz WCDMA Band 5: 824~849MHz |
| Downlink Frequency: | WCDMA Band 2: 1930~1990MHz WCDMA Band 4: 2110~2155MHz WCDMA Band 5: 869~894MHz |
| RF Output Power: | WCDMA Band 2: 22.26dBm, WCDMA Band 4: 22.43dBm WCDMA Band 5: 23.22dBm |
| Type of Modulation: | BPSK |
| Antenna Type: | Integral Antenna |
| Antenna Gain: | WCDMA Band 2: 0dBi, WCDMA Band 4: 0dBi, WCDMA Band 5: 0dBi |
| 4G | |
| Support Networks: | FDD-LTE |
| Support Band: | FDD-LTE Band 2, 4, 5 |
| Uplink Frequency: | FDD-LTE Band 2: Tx: 1850-1910MHz, FDD-LTE Band 4: Tx: 1710-1755MHz, FDD-LTE Band 5: Tx: 824-849MHz, |
| Downlink Frequency: | FDD-LTE Band 2: Rx: 1930-1990MHz, FDD-LTE Band 4: Rx: 2110-2155MHz, FDD-LTE Band 5: Rx: 869-894MHz, |
| RF Output Power: | FDD-LTE Band 2: 23.41dBm, |

| | |
|-----------------------|---|
| | FDD-LTE Band 4: 23.56dBm, FDD-LTE Band 5: 23.63dBm, |
| Type of Modulation: | QPSK, 16QAM |
| Antenna Type: | Integral Antenna |
| Antenna Gain: | FDD-LTE Band 2: 0dBi, FDD-LTE Band 4: 0dBi, FDD-LTE Band 5: 0dBi, |
| 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: | 13.48dBm (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: | 0dBi |
| Bluetooth | |
| Bluetooth Version: | V4.0 |
| Frequency Range: | 2402-2480MHz |
| AV Output Power: | 4.971dBm (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: | 0dBi |

1.2 Test Standards

The following report is prepared on behalf of the JALA ASIA LTD. 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 3G SAR Procedures v03
941225 D06 Hotspot Mode SAR v02
248227 D01 SAR Meas for 802.11abg v02r01
865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
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 v01r04 and KDB 865664 D02 v01r01. The public notice KDB 447498 D01 v05r02 for Mobile and Portable Devices RF Exposure Procedure also.

1.4 Test Facility

- **FCC – Registration No.: 934118**

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

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

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

- **CNAS Registration No.: L4062**

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

2. Summary of Test Results

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

| Frequency Band | Head SAR | Body-worn (10mm Gap) | Hotspot (10mm Gap) | SAR _{1g} Limit (W/kg) |
|---------------------------|--|-------------------------------------|-------------------------------------|--------------------------------------|
| | Maximum SAR _{1g} (W/kg) | Maximum SAR _{1g} (W/kg) | Maximum SAR _{1g} (W/kg) | |
| GSM850 | 0.2215 | 0.4444 | 1.0543 | 1.6 |
| GSM1900 | 0.0542 | 0.3535 | 1.4880 | 1.6 |
| WCDMA Band 2 | 0.3044 | 0.6804 | 0.9205 | 1.6 |
| WCDMA Band 5 | 0.2025 | 0.3190 | 0.3190 | 1.6 |
| WCDMA Band 4 | 0.2834 | 1.1029 | 1.2813 | 1.6 |
| FDD-LTE Band 2 | 0.2337 | 0.7965 | 0.7965 | 1.6 |
| FDD-LTE Band 4 | 0.3472 | 0.8762 | 0.9761 | 1.6 |
| FDD-LTE Band 5 | 0.0943 | 0.1708 | 0.170 | 1.6 |
| WLAN 2.4G | 0.3725 | 0.1199 | 0.1199 | 1.6 |
| Simultaneous Transmission | 0.7197 | 1.1881 | 1.5613 | 1.6 |

Remark:

The highest reported SAR values for head, body-worn accessory, wireless router(hotspot), and simultaneous transmission conditions are 0.373W/kg, 1.103W/kg, 1.488W/kg, and 1.5613W/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 C95.1-2005, and had been tested in accordance with the measurement methods and procedure specified in IEEE 1528-2013 and KDB 865664 D01 v01r04 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.

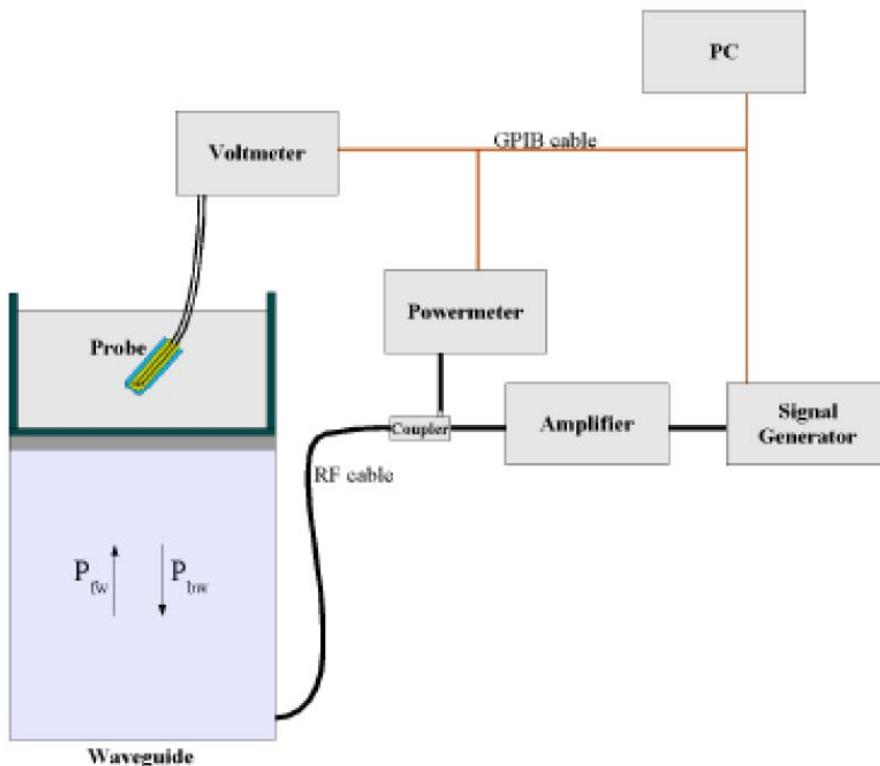
4.2 Probe

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

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

Where:

σ = simulated tissue conductivity,

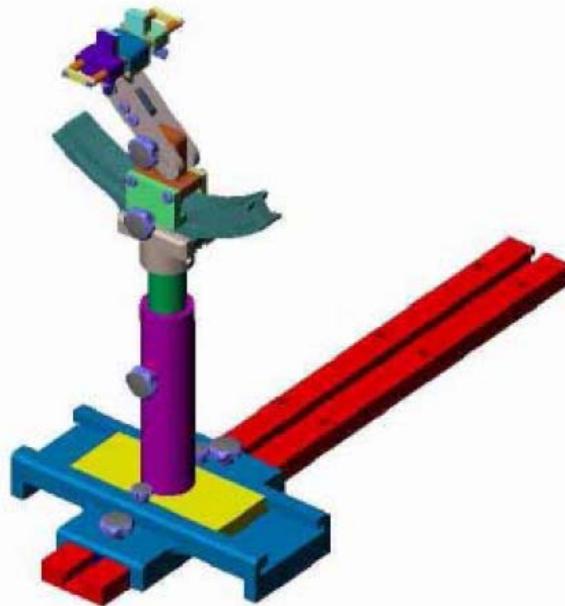
ρ = Tissue density (1.25 g/cm³ for brain tissue)

4.4 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

4.5 Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.



| System Material | Permittivity | Loss Tangent |
|-----------------|--------------|--------------|
| Delrin | 3.7 | 0.005 |

4.6 Test Equipment List

| Description | Manufacturer | Model | Serial Number | Cal. Date | Due. Date |
|------------------------------|-----------------|---------------|------------------------|------------|------------|
| E-Field Probe | SATIMO | SSE5 | SN 09/13 EP168 | 2015-06-03 | 2016-06-02 |
| 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 |
| 1800MHz Dipole | SATIMO | SID1800 | SN 47/12 DIP 1G800-206 | 2015-03-16 | 2016-03-15 |
| 1900MHz Dipole | SATIMO | SID1900 | SN 47/12 DIP 1G900-207 | 2015-03-16 | 2016-03-15 |
| 2450MHz Dipole | SATIMO | SID2450 | SN 13/15 DIP 2G450-364 | 2015-04-13 | 2016-04-12 |
| Dielectric Probe Kit | SATIMO | SCLMP | SN 47/12 OCPG49 | 2015-03-16 | 2016-03-15 |
| SAM Phantom | SATIMO | SAM | SN/ 47/12 SAM95 | N/A | N/A |
| MULTIMETER | KEITHLEY | Keithley 2000 | 4006367 | 2015-06-17 | 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 | | | | | | |
| 835 | 35.34 | 0.98 | 0.00 | 0.00 | 63.68 | 0.00 |
| 1800 | 55.19 | 0.66 | 30.35 | 0.00 | 0.00 | 13.80 |
| 1900 | 55.26 | 0.52 | 30.40 | 0.00 | 0.00 | 13.82 |
| 2450 | 55.44 | 0.32 | 30.50 | 0.00 | 0.00 | 13.74 |
| Body | | | | | | |
| 835 | 52.87 | 1.07 | 0.00 | 0.00 | 46.10 | 0.00 |
| 1800 | 70.81 | 0.52 | 20.01 | 0.00 | 0.00 | 8.65 |
| 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. (°C) | Conductivity | | | Permittivity | | | Limit (%) | Date |
| | | Reading (σ) | Target (σ) | Delta (%) | Reading (ϵ_r) | Target (ϵ_r) | Delta (%) | | |
| 835 | 21.2 | 0.87 | 0.90 | -3.33 | 41.11 | 41.50 | -0.94 | ±5 | 2015-09-28 |
| 1800 | 21.3 | 1.37 | 1.40 | -2.14 | 39.02 | 40.0 | -2.50 | ±5 | 2015-09-28 |
| 1900 | 21.3 | 1.38 | 1.40 | -1.43 | 38.56 | 40.00 | -3.60 | ±5 | 2015-09-28 |
| 2450 | 21.3 | 1.74 | 1.80 | -3.33 | 38.15 | 39.20 | -2.68 | ±5 | 2015-09-28 |

| Body Tissue Simulating Liquid | | | | | | | | | |
|-------------------------------|---------------|-------------------------|------------------------|--------------|-----------------------------|----------------------------|--------------|--------------|------------|
| Freq. MHz. | Temp. (°C) | Conductivity | | | Permittivity | | | Limit (%) | Date |
| | | Reading (σ) | Target (σ) | Delta (%) | Reading (ϵ_r) | Target (ϵ_r) | Delta (%) | | |
| 835 | 21.2 | 0.95 | 0.97 | -2.06 | 54.85 | 55.20 | -0.63 | ±5 | 2015-09-28 |
| 1800 | 21.3 | 1.46 | 1.52 | -3.95 | 51.22 | 53.30 | -3.94 | ±5 | 2015-09-28 |
| 1900 | 21.3 | 1.50 | 1.52 | -1.32 | 52.42 | 53.30 | -1.65 | ±5 | 2015-09-28 |
| 2450 | 21.3 | 1.91 | 1.95 | -2.05 | 52.01 | 52.70 | -1.31 | ±5 | 2015-09-28 |

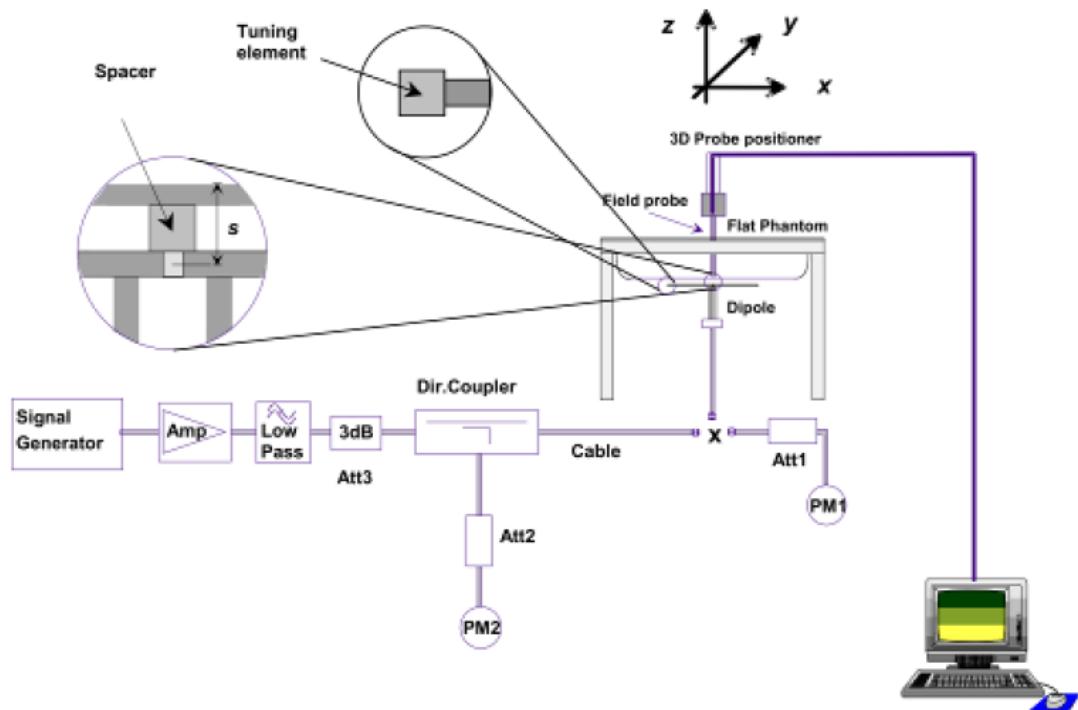
6. SAR Measurement Evaluation

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 MHz | Targeted SAR _{1g} (W/kg) | Measured SAR _{1g} (W/kg) | Normalized SAR _{1g} (W/kg) | Tolerance (%) |
|------------------|--------------------------------------|--------------------------------------|--|------------------|
| Head | | | | |
| 835 | 9.65 | 2.41 | 9.64 | -0.10 |
| 1800 | 38.49 | 9.61 | 38.45 | -0.10 |
| 1900 | 39.59 | 9.91 | 39.62 | 0.08 |
| 2450 | 53.76 | 13.45 | 53.78 | 0.04 |
| Body | | | | |
| 835 | 9.36 | 2.35 | 9.38 | 0.21 |
| 1800 | 38.29 | 9.58 | 38.32 | 0.08 |
| 1900 | 39.01 | 9.78 | 39.10 | 0.23 |
| 2450 | 50.33 | 12.59 | 50.35 | 0.04 |

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.

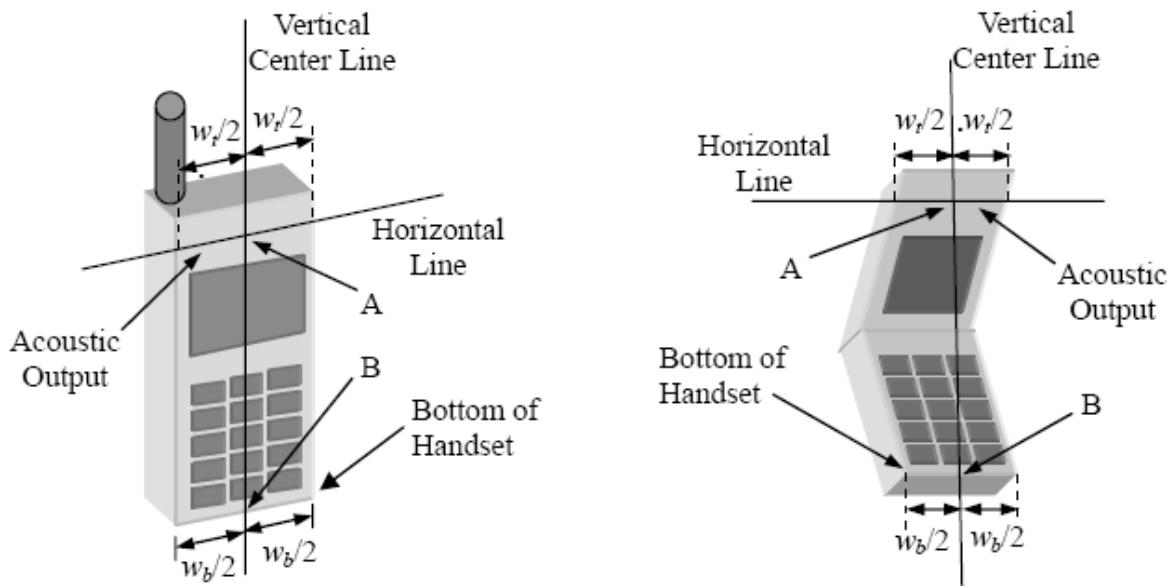


Illustration for Handset Vertical and Horizontal Reference Lines

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).

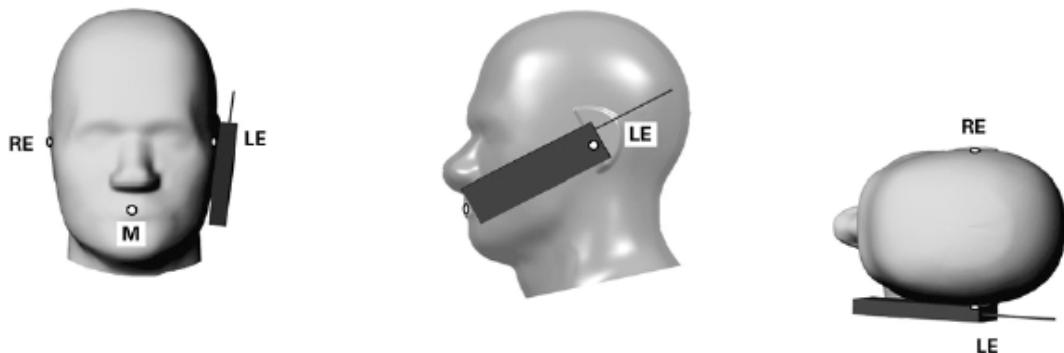


Illustration for Cheek Position

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).

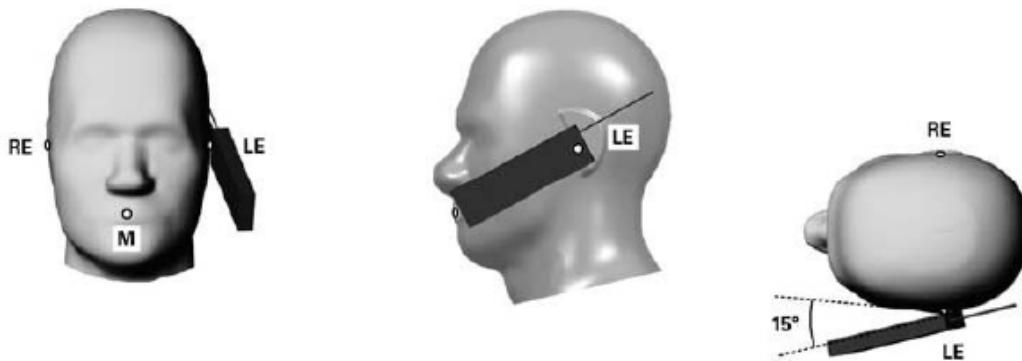


Illustration for Tilted Position

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.

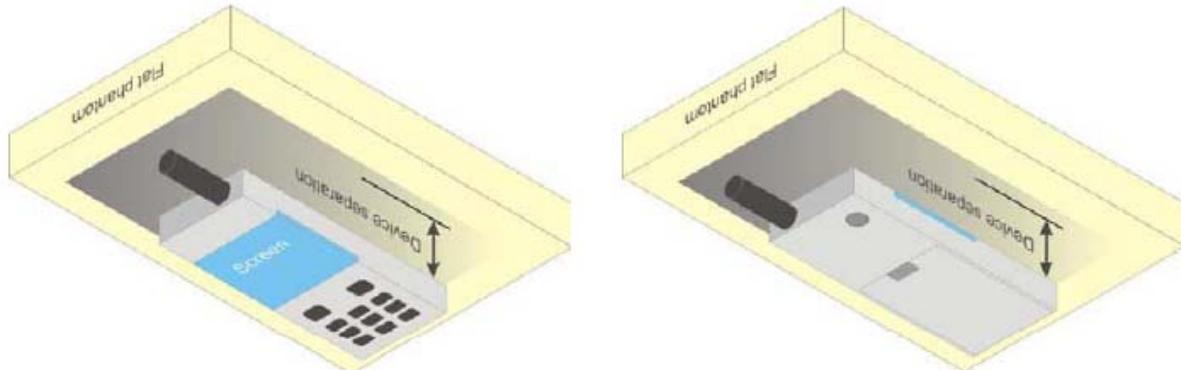
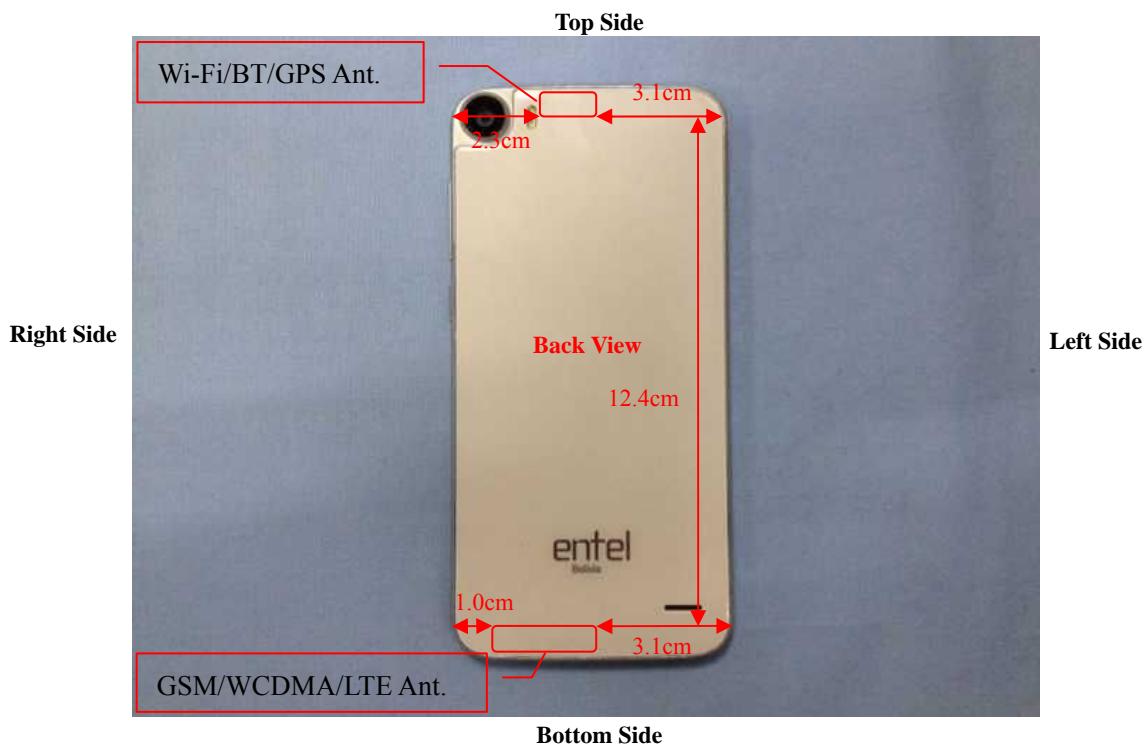


Illustration for Body Position

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 | No | No | Yes |
| WLAN | Yes | Yes | Yes | No | Yes | No |

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

Remark:

- 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

| 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 | 31.90 | 31.99 | 31.95 | 28.52 | 28.63 | 28.62 |
| GPRS (1 slot) | 31.93 | 32.04 | 32.03 | 28.54 | 28.63 | 28.61 |
| GPRS (2 slots) | 31.22 | 31.27 | 31.29 | 27.71 | 27.88 | 27.96 |
| GPRS (3 slots) | 29.55 | 29.59 | 29.60 | 25.70 | 25.94 | 26.25 |
| GPRS (4 slots) | 28.49 | 28.56 | 28.52 | 24.64 | 24.87 | 25.14 |
| EDGE (1 slot) | 25.60 | 25.74 | 25.64 | 24.07 | 24.39 | 24.67 |
| EDGE (2 slots) | 24.66 | 24.66 | 24.70 | 22.98 | 23.30 | 23.55 |
| EDGE (3 slots) | 22.75 | 22.70 | 22.69 | 20.94 | 21.16 | 21.42 |
| EDGE (4 slots) | 21.69 | 21.70 | 21.72 | 20.05 | 20.07 | 20.30 |

| 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 | 22.90 | 22.99 | 22.95 | 19.52 | 19.63 | 19.62 |
| GPRS (1 slot) | 22.93 | 23.04 | 23.03 | 19.54 | 19.63 | 19.61 |
| GPRS (2 slots) | 25.22 | 25.27 | 25.29 | 21.71 | 21.88 | 21.96 |
| GPRS (3 slots) | 25.30 | 25.34 | 25.35 | 21.45 | 21.69 | 22.00 |
| GPRS (4 slots) | 25.49 | 25.56 | 25.52 | 21.64 | 21.87 | 22.14 |
| EDGE (1 slot) | 16.60 | 16.74 | 16.64 | 15.07 | 15.39 | 15.67 |
| EDGE (2 slots) | 18.66 | 18.66 | 18.70 | 16.98 | 17.30 | 17.55 |
| EDGE (3 slots) | 18.50 | 18.45 | 18.44 | 16.69 | 16.91 | 17.17 |
| EDGE (4 slots) | 18.69 | 18.70 | 18.72 | 17.05 | 17.07 | 17.30 |

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 (4TX slots) for GSM850 and 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 | 4183 | 4233 |
| Frequency (MHz) | 1852.4 | 1880.0 | 1907.6 | 826.4 | 836.6 | 846.6 |
| RMC 12.2k | 22.16 | 22.06 | 22.26 | 22.97 | 23.22 | 23.01 |
| HSDPA Subtest-1 | 20.93 | 20.87 | 21.21 | 22.10 | 22.28 | 22.06 |
| HSDPA Subtest-2 | 20.67 | 20.64 | 20.94 | 21.92 | 22.05 | 21.85 |
| HSDPA Subtest-3 | 20.52 | 20.49 | 20.79 | 21.79 | 21.91 | 21.69 |
| HSDPA Subtest-4 | 20.41 | 20.35 | 20.71 | 21.72 | 21.81 | 21.58 |
| HSUPA Subtest-1 | 20.81 | 20.83 | 21.22 | 22.18 | 22.31 | 22.17 |
| HSUPA Subtest-2 | 20.66 | 20.68 | 21.04 | 22.04 | 22.15 | 22.08 |
| HSUPA Subtest-3 | 20.59 | 20.62 | 20.93 | 21.96 | 22.02 | 21.97 |
| HSUPA Subtest-4 | 20.49 | 20.51 | 20.88 | 21.92 | 21.96 | 21.92 |
| HSUPA Subtest-5 | 20.43 | 20.45 | 20.81 | 21.84 | 21.93 | 21.84 |

| WCDMA - Average Power (dBm) | | | | | | |
|-----------------------------|---------------|---------------|---------------|---|---|---|
| Band | WCDMA Band 4 | | | / | | |
| Channel | 1312 | 1412 | 1513 | / | / | / |
| Frequency (MHz) | 1712.4 | 1732.4 | 1752.6 | / | / | / |
| RMC 12.2k | 22.90 | 22.43 | 22.65 | / | / | / |
| HSDPA Subtest-1 | 21.77 | 21.42 | 21.63 | / | / | / |
| HSDPA Subtest-2 | 21.50 | 21.24 | 21.41 | / | / | / |
| HSDPA Subtest-3 | 21.35 | 21.11 | 21.26 | / | / | / |
| HSDPA Subtest-4 | 21.27 | 21.02 | 21.16 | / | / | / |
| HSUPA Subtest-1 | 21.58 | 21.23 | 21.40 | / | / | / |
| HSUPA Subtest-2 | 21.43 | 21.05 | 21.26 | / | / | / |
| HSUPA Subtest-3 | 21.37 | 20.94 | 21.18 | / | / | / |
| HSUPA Subtest-4 | 21.26 | 20.89 | 21.14 | / | / | / |
| HSUPA Subtest-5 | 21.22 | 20.82 | 21.06 | / | / | / |

Remark:

- For Head SAR, per KDB 941225 D01 v03, 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.
- For Body SAR, per KDB 941225 D01 v03, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA subset-1 output power is < 1/4 dB higher than RMC, and SAR with RMC 12.2kbps setting is $\leq 1.2\text{W/kg}$, HSDPA SAR evaluation can be excluded.

| FDD-LTE Band 2 | | | | FDD-LTE Band 4 | | | |
|----------------|-----------------|---------|---------------------|----------------|-----------------|---------|---------------------|
| Modulation | Bandwidth (MHz) | Channel | Average Power (dBm) | Modulation | Bandwidth (MHz) | Channel | Average Power (dBm) |
| QPSK | 1.4 | LCH | 23.34 | QPSK | 1.4 | LCH | 23.41 |
| | | MCH | 22.97 | | | MCH | 23.42 |
| | | HCH | 23.01 | | | HCH | 23.19 |
| | 3 | LCH | 23.09 | | 3 | LCH | 23.37 |
| | | MCH | 23.28 | | | MCH | 23.36 |
| | | HCH | 23.25 | | | HCH | 23.17 |
| | 5 | LCH | 23.35 | | 5 | LCH | 23.44 |
| | | MCH | 23.41 | | | MCH | 23.42 |
| | | HCH | 22.56 | | | HCH | 23.28 |
| | 10 | LCH | 22.53 | | 10 | LCH | 23.38 |
| | | MCH | 22.57 | | | MCH | 23.34 |
| | | HCH | 22.65 | | | HCH | 23.21 |
| | 15 | LCH | 22.64 | | 15 | LCH | 23.40 |
| | | MCH | 22.91 | | | MCH | 23.40 |
| | | HCH | 23.03 | | | HCH | 23.28 |
| | 20 | LCH | 22.75 | | 20 | LCH | 23.56 |
| | | MCH | 23.40 | | | MCH | 23.51 |
| | | HCH | 23.33 | | | HCH | 23.45 |
| 16QAM | 1.4 | LCH | 22.17 | 16QAM | 1.4 | LCH | 22.73 |
| | | MCH | 22.17 | | | MCH | 22.83 |
| | | HCH | 21.89 | | | HCH | 22.38 |
| | 3 | LCH | 22.35 | | 3 | LCH | 22.69 |
| | | MCH | 22.42 | | | MCH | 22.65 |
| | | HCH | 22.36 | | | HCH | 22.47 |
| | 5 | LCH | 22.57 | | 5 | LCH | 22.86 |
| | | MCH | 22.54 | | | MCH | 22.84 |
| | | HCH | 21.79 | | | HCH | 22.49 |
| | 10 | LCH | 21.76 | | 10 | LCH | 22.68 |
| | | MCH | 21.76 | | | MCH | 22.64 |
| | | HCH | 21.93 | | | HCH | 22.60 |
| | 15 | LCH | 21.87 | | 15 | LCH | 22.72 |
| | | MCH | 22.06 | | | MCH | 22.70 |
| | | HCH | 22.14 | | | HCH | 22.56 |
| | 20 | LCH | 21.85 | | 20 | LCH | 22.72 |
| | | MCH | 22.33 | | | MCH | 22.68 |
| | | HCH | 22.49 | | | HCH | 22.75 |

| FDD-LTE Band 5 | | | | / | | | |
|----------------|-----------------|---------|---------------------|---|---|---|---|
| Modulation | Bandwidth (MHz) | Channel | Average Power (dBm) | / | / | / | / |
| QPSK | 1.4 | LCH | 23.45 | / | / | / | / |
| | | MCH | 23.44 | | | / | / |
| | | HCH | 23.38 | | | / | / |
| | 3 | LCH | 23.42 | | / | / | / |
| | | MCH | 23.33 | | | / | / |
| | | HCH | 23.33 | | | / | / |
| | 5 | LCH | 23.49 | | / | / | / |
| | | MCH | 23.45 | | | / | / |
| | | HCH | 23.40 | | | / | / |
| | 10 | LCH | 23.31 | | / | / | / |
| | | MCH | 23.51 | | | / | / |
| | | HCH | 23.63 | | | / | / |
| 16QAM | 1.4 | LCH | 22.83 | / | / | / | / |
| | | MCH | 22.72 | | | / | / |
| | | HCH | 22.57 | | | / | / |
| | 3 | LCH | 22.77 | | / | / | / |
| | | MCH | 22.59 | | | / | / |
| | | HCH | 22.58 | | | / | / |
| | 5 | LCH | 22.87 | | / | / | / |
| | | MCH | 22.77 | | | / | / |
| | | HCH | 22.75 | | | / | / |
| | 10 | LCH | 22.57 | | / | / | / |
| | | MCH | 22.86 | | | / | / |
| | | HCH | 22.86 | | | / | / |

| WLAN - Maximum Average Power | | | | |
|------------------------------|-----------|---------|-----------------|---------------------|
| Test Mode | Data Rate | Channel | Frequency (MHz) | Average Power (dBm) |
| 802.11b | 1Mbps | CH 01 | 2412 | 13.48 |
| | | CH 06 | 2437 | 12.78 |
| | | CH 11 | 2462 | 13.05 |
| 802.11g | 54Mbps | CH 01 | 2412 | 10.49 |
| | | CH 06 | 2437 | 9.89 |
| | | CH 11 | 2462 | 10.33 |
| 802.11n (20MHz) | MCS7 | CH 01 | 2412 | 9.74 |
| | | CH 06 | 2437 | 9.64 |
| | | CH 11 | 2462 | 9.58 |
| 802.11n (40MHz) | MCS7 | CH 03 | 2422 | 8.55 |
| | | CH 06 | 2437 | 8.86 |
| | | CH 09 | 2452 | 8.77 |

Remark:

1. Per KDB 248227 D01 v02r01, choose the highest output power channel to test SAR and determine further SAR exclusion
2. Per KDB 248227 D01 v02r01, 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 | 4.971 |
| | | CH 39 | 2441 | 4.918 |
| | | CH 78 | 2480 | 4.663 |
| 4*π4DQPSK | 2Mbps | CH 00 | 2402 | 3.422 |
| | | CH 39 | 2441 | 3.601 |
| | | CH 78 | 2480 | 3.576 |
| 8DPSK | 3Mbps | CH 00 | 2402 | 3.753 |
| | | CH 39 | 2441 | 3.869 |
| | | CH 78 | 2480 | 3.788 |
| BLE | 1Mbps | CH 00 | 2402 | -2.888 |
| | | CH 19 | 2440 | -2.563 |
| | | CH 39 | 2480 | -2.264 |

Remark:

Bluetooth maximum output power is 4.971dBm, and Tune-Up output power is 5.5dBm. Per KDB 648474 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 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 |
|---------------------|-----------------|---------------|-----------------|--------|-------|
| 5.5 | 3.5481 | 5 | 2.402 | 1.0998 | 3 |

The exclusion thresholds is 1.234 < 3, therefore, the RF exposure evaluation is not required.

9.2 Test Results for Standalone SAR Test

Head SAR

| GSM850 – Head SAR Test | | | | | | | | | |
|------------------------|------|--------------------|-----------|-------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Head | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 1 | GSM | Right Cheek | 190 | 836.6 | 31.99 | 32.50 | 1.1246 | 0.2033 | 0.2286 |
| 2 | GSM | Right Tilted | 190 | 836.6 | 31.99 | 32.50 | 1.1246 | 0.0695 | 0.0782 |
| 3 | GSM | Left Cheek | 190 | 836.6 | 31.99 | 32.50 | 1.1246 | 0.221 | 0.2485 |
| 4 | GSM | Left Tilted | 190 | 836.6 | 31.99 | 32.50 | 1.1246 | 0.0572 | 0.0643 |

| 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 | | | | | |
| 13 | GSM | Right Cheek | 661 | 1880.0 | 28.63 | 29.00 | 1.0889 | 0.0498 | 0.0542 |
| 14 | GSM | Right Tilted | 661 | 1880.0 | 28.63 | 29.00 | 1.0889 | 0.0124 | 0.0135 |
| 15 | GSM | Left Cheek | 661 | 1880.0 | 28.63 | 29.00 | 1.0889 | 0.0472 | 0.0514 |
| 16 | GSM | Left Tilted | 661 | 1880.0 | 28.63 | 29.00 | 1.0889 | 0.0097 | 0.0105 |

| WCDMA Band 2 – Head SAR Test | | | | | | | | | |
|------------------------------|------|--------------------|-----------|--------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Head | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 25 | RMC | Right Cheek | 9538 | 1907.6 | 22.26 | 22.50 | 1.0568 | 0.2881 | 0.3044 |
| 26 | RMC | Right Tilted | 9538 | 1907.6 | 22.26 | 22.50 | 1.0568 | 0.0482 | 0.0509 |
| 27 | RMC | Left Cheek | 9538 | 1907.6 | 22.26 | 22.50 | 1.0568 | 0.2315 | 0.2446 |
| 28 | RMC | Left Tilted | 9538 | 1907.6 | 22.26 | 22.50 | 1.0568 | 0.0448 | 0.0474 |

| WCDMA Band 5 – 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 | | | | | |
| 35 | RMC | Right Cheek | 4183 | 836.6 | 23.22 | 23.50 | 1.0666 | 0.1899 | 0.2025 |
| 36 | RMC | Right Tilted | 4183 | 836.6 | 23.22 | 23.50 | 1.0666 | 0.1560 | 0.1664 |
| 37 | RMC | Left Cheek | 4183 | 836.6 | 23.22 | 23.50 | 1.0666 | 0.1794 | 0.1914 |
| 38 | RMC | Left Tilted | 4183 | 836.6 | 23.22 | 23.50 | 1.0666 | 0.1260 | 0.1344 |

| WCDMA Band 4 – Head SAR Test | | | | | | | | | |
|------------------------------|------|-----------------------|-----------|--------|-----------------------|----------------------|----------------|-----------------|------------------------|
| Plot No. | Mode | Test Position Head | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 43 | RMC | Right Cheek | 1312 | 1712.4 | 22.90 | 23.00 | 1.0233 | 0.2093 | 0.2142 |
| 44 | RMC | Right Tilted | 1312 | 1712.4 | 22.90 | 23.00 | 1.0233 | 0.0503 | 0.0515 |
| 45 | RMC | Left Cheek | 1312 | 1712.4 | 22.90 | 23.00 | 1.0233 | 0.2769 | 0.2834 |
| 46 | RMC | Left Tilted | 1312 | 1712.4 | 22.90 | 23.00 | 1.0233 | 0.0297 | 0.0304 |

| LTE Band 2 – 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) |
| | Modulation, Bandwidth | | MHz | | | | | |
| 55 | RMC,QPSK 5MHz | Right Cheek | 1880.0 | 23.41 | 24.00 | 1.1455 | 0.2040 | 0.2337 |
| 56 | RMC,QPSK 5MHz | Right Tilted | 1880.0 | 23.41 | 24.00 | 1.1455 | 0.0407 | 0.0466 |
| 57 | RMC,QPSK 5MHz | Left Cheek | 1880.0 | 23.41 | 24.00 | 1.1455 | 0.1763 | 0.2019 |
| 58 | RMC,QPSK 5MHz | Left Tilted | 1880.0 | 23.41 | 24.00 | 1.1455 | 0.0318 | 0.0365 |

| LTE Band 4 – 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) |
| | Modulation, Bandwidth | | MHz | | | | | |
| 63 | RMC,QPSK 20MHz | Right Cheek | 1720.0 | 23.56 | 24.0 | 1.1066 | 0.3137 | 0.3472 |
| 64 | RMC,QPSK 20MHz | Right Tilted | 1720.0 | 23.56 | 24.0 | 1.1066 | 0.0300 | 0.0332 |
| 65 | RMC,QPSK 20MHz | Left Cheek | 1720.0 | 23.56 | 24.0 | 1.1066 | 0.1892 | 0.2094 |
| 66 | RMC,QPSK 20MHz | Left Tilted | 1720.0 | 23.56 | 24.0 | 1.1066 | 0.0243 | 0.0268 |

| LTE Band 5 – 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) |
| | Modulation, Bandwidth | | MHz | | | | | |
| 73 | RMC,QPSK 10MHz | Right Cheek | 844.0 | 23.63 | 24.0 | 1.0889 | 0.0866 | 0.0943 |
| 74 | RMC,QPSK 10MHz | Right Tilted | 844.0 | 23.63 | 24.0 | 1.0889 | 0.0500 | 0.0544 |
| 75 | RMC,QPSK 10MHz | Left Cheek | 844.0 | 23.63 | 24.0 | 1.0889 | 0.0768 | 0.0837 |
| 76 | RMC,QPSK 10MHz | Left Tilted | 844.0 | 23.63 | 24.0 | 1.0889 | 0.0447 | 0.0487 |

| 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 | | | | | |
| 81 | 802.11b | Right Cheek | 01 | 2412 | 13.48 | 14.5 | 1.2647 | 0.2945 | 0.3725 |
| 82 | 802.11b | Right Tilted | 01 | 2412 | 13.48 | 14.5 | 1.2647 | 0.1711 | 0.2164 |
| 83 | 802.11b | Left Cheek | 01 | 2412 | 13.48 | 14.5 | 1.2647 | 0.1054 | 0.1333 |
| 84 | 802.11b | Left Tilted | 01 | 2412 | 13.48 | 14.5 | 1.2647 | 0.0545 | 0.0689 |

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

Body-worn SAR

| GSM850 – Body SAR Test (Gap: 10mm) | | | | | | | | | |
|------------------------------------|------|--------------------|-----------|-------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 5 | GSM | Back | 190 | 836.6 | 31.99 | 32.50 | 1.1246 | 0.4405 | 0.4954 |
| 6 | GSM | Front | 190 | 836.6 | 31.99 | 32.50 | 1.1246 | 0.4433 | 0.4985 |

| GSM1900 – Body SAR Test (Gap: 10mm) | | | | | | | | | |
|-------------------------------------|------|--------------------|-----------|--------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 17 | GSM | Back | 661 | 1880.0 | 28.63 | 29.00 | 1.0889 | 0.3246 | 0.3535 |
| 18 | GSM | Front | 661 | 1880.0 | 28.63 | 29.00 | 1.0889 | 0.2774 | 0.3021 |

| WCDMA Band 2 – Body SAR Test (Gap: 10mm) | | | | | | | | | |
|--|-----------|--------------------|-----------|--------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 29 | RMC 12.2k | Back Side | 9538 | 1907.6 | 22.26 | 22.50 | 1.0568 | 0.4701 | 0.4968 |
| 30 | RMC 12.2k | Front Side | 9538 | 1907.6 | 22.26 | 22.50 | 1.0568 | 0.6438 | 0.6804 |

| WCDMA Band 5 – Body SAR Test (Gap: 10mm) | | | | | | | | | |
|--|-----------|--------------------|-----------|-------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 39 | RMC 12.2k | Back Side | 4183 | 836.6 | 23.22 | 23.50 | 1.0666 | 0.2991 | 0.3190 |
| 40 | RMC 12.2k | Front Side | 4183 | 836.6 | 23.22 | 23.50 | 1.0666 | 0.2441 | 0.2603 |

| WCDMA Band 4 – Body SAR Test (Gap: 10mm) | | | | | | | | | |
|--|-----------|--------------------|-----------|--------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 47 | RMC 12.2k | Back Side | 1312 | 1712.4 | 22.90 | 23.00 | 1.0233 | 0.7624 | 0.7802 |
| 48 | RMC 12.2k | Front Side | 1312 | 1712.4 | 22.90 | 23.00 | 1.0233 | 0.9865 | 1.0095 |
| 49 | RMC 12.2k | Front Side | 1412 | 1732.4 | 22.43 | 23.00 | 1.1402 | 0.9673 | 1.1029 |
| 50 | RMC 12.2k | Front Side | 1513 | 1752.6 | 22.65 | 23.00 | 1.0839 | 0.9686 | 1.0499 |

| LTE Band 2–Body SAR Test (Gap: 10mm) | | | | | | | | | |
|--------------------------------------|-----------------------|------------|--------------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | | Test Position Head | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | Modulation, Bandwidth | | | MHz | | | | | |
| 59 | RMC,QPSK 5MHz | Back Side | 1880.0 | 23.41 | 24.00 | 1.1455 | 0.3974 | 0.4552 | |
| 60 | RMC,QPSK 5MHz | Front Side | 1880.0 | 23.41 | 24.00 | 1.1455 | 0.6953 | 0.7965 | |

| LTE Band 4–Body SAR Test (Gap: 10mm) | | | | | | | | | |
|--------------------------------------|-----------------------|------------|--------------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | | Test Position Head | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | Modulation, Bandwidth | | | MHz | | | | | |
| 67 | RMC,QPSK 20MHz | Back Side | 1720.0 | 23.56 | 24.0 | 1.1066 | 0.5768 | 0.6383 | |
| 68 | RMC,QPSK 20MHz | Front Side | 1720.0 | 23.56 | 24.0 | 1.1066 | 0.7918 | 0.8762 | |

| LTE Band 5–Body SAR Test (Gap: 10mm) | | | | | | | | | |
|--------------------------------------|-----------------------|------------|--------------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | | Test Position Head | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | Modulation, Bandwidth | | | MHz | | | | | |
| 77 | RMC,QPSK 10MHz | Back Side | 844.0 | 23.63 | 24.0 | 1.0889 | 0.1568 | 0.1708 | |
| 78 | RMC,QPSK 10MHz | Front Side | 844.0 | 23.63 | 24.0 | 1.0889 | 0.1281 | 0.1395 | |

| WLAN 2.4GHz –Body SAR Test | | | | | | | | | |
|----------------------------|---------|--------------------|-----------|------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 85 | 802.11b | Back Side | 01 | 2412 | 13.48 | 14.5 | 1.2647 | 0.0948 | 0.1199 |
| 86 | 802.11b | Front Side | 01 | 2412 | 13.48 | 14.5 | 1.2647 | 0.0852 | 0.1078 |

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

Hotspot SAR

| GSM850 – Body SAR Test (Gap: 10mm) | | | | | | | | | |
|------------------------------------|----------|--------------------|-----------|-------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 7 | GPRS_4TX | Back Side | 128 | 824.2 | 28.49 | 29.00 | 1.1246 | 0.8587 | 0.9657 |
| 8 | GPRS_4TX | Back Side | 190 | 836.6 | 28.56 | 29.00 | 1.1066 | 0.8612 | 0.9530 |
| 9 | GPRS_4TX | Back Side | 251 | 848.8 | 28.52 | 29.00 | 1.1169 | 0.9440 | 1.0543 |
| 10 | GPRS_4TX | Front Side | 190 | 836.6 | 28.56 | 29.00 | 1.1066 | 0.7604 | 0.8415 |
| 11 | GPRS_4TX | Bottom side | 190 | 836.6 | 28.56 | 29.00 | 1.1066 | 0.4413 | 0.4884 |
| 12 | GPRS_4TX | Right side | 190 | 836.6 | 28.56 | 29.00 | 1.1066 | 0.4394 | 0.4863 |

| GSM1900 – Body SAR Test (Gap: 10mm) | | | | | | | | | |
|-------------------------------------|----------|--------------------|-----------|--------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 19 | GPRS_4TX | Back Side | 810 | 1909.8 | 25.14 | 25.50 | 1.0864 | 0.5411 | 0.5879 |
| 20 | GPRS_4TX | Front Side | 810 | 1909.8 | 25.14 | 25.50 | 1.0864 | 0.5470 | 0.5942 |
| 21 | GPRS_4TX | Bottom side | 512 | 1850.2 | 24.64 | 25.50 | 1.2190 | 1.2206 | 1.4880 |
| 22 | GPRS_4TX | Bottom side | 661 | 1880.0 | 24.87 | 25.50 | 1.1561 | 1.2356 | 1.4285 |
| 23 | GPRS_4TX | Bottom side | 810 | 1909.8 | 25.14 | 25.50 | 1.0864 | 1.1420 | 1.2407 |
| 24 | GPRS_4TX | Right side | 810 | 1909.8 | 25.14 | 25.50 | 1.0864 | 0.1336 | 0.1451 |

| WCDMA Band 2 – Body SAR Test (Gap: 10mm) | | | | | | | | | |
|--|-----------|--------------------|-----------|--------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 29 | RMC 12.2k | Back Side | 9538 | 1907.6 | 22.26 | 22.50 | 1.0568 | 0.4701 | 0.4968 |
| 30 | RMC 12.2k | Front Side | 9538 | 1907.6 | 22.26 | 22.50 | 1.0568 | 0.6438 | 0.6804 |
| 31 | RMC 12.2k | Bottom side | 9262 | 1852.4 | 22.16 | 22.50 | 1.0814 | 0.7216 | 0.7804 |
| 32 | RMC 12.2k | Bottom side | 9400 | 1880.0 | 22.06 | 22.50 | 1.1066 | 0.7812 | 0.8645 |
| 33 | RMC 12.2k | Bottom side | 9538 | 1907.6 | 22.26 | 22.50 | 1.0568 | 0.8710 | 0.9205 |
| 34 | RMC 12.2k | Right side | 9538 | 1907.6 | 22.26 | 22.50 | 1.0568 | 0.3072 | 0.3247 |

| WCDMA Band 5 – Body SAR Test (Gap: 10mm) | | | | | | | | |
|--|-----------|-----------------------|-----------|-------|-----------------------|----------------------|----------------|-----------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) |
| | | | CH. | MHz | | | | |
| 39 | RMC 12.2k | Back Side | 4183 | 836.6 | 23.22 | 23.50 | 1.0666 | 0.2991 |
| 40 | RMC 12.2k | Front Side | 4183 | 836.6 | 23.22 | 23.50 | 1.0666 | 0.2441 |
| 41 | RMC 12.2k | Bottom side | 4183 | 836.6 | 23.22 | 23.50 | 1.0666 | 0.1572 |
| 42 | RMC 12.2k | Right side | 4183 | 836.6 | 23.22 | 23.50 | 1.0666 | 0.2745 |
| | | | | | | | | 0.2927 |

| WCDMA Band 4 – Body SAR Test (Gap: 10mm) | | | | | | | | |
|--|-----------|-----------------------|-----------|--------|-----------------------|----------------------|----------------|-----------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) |
| | | | CH. | MHz | | | | |
| 47 | RMC 12.2k | Back Side | 1312 | 1712.4 | 22.90 | 23.00 | 1.0233 | 0.7624 |
| 48 | RMC 12.2k | Front Side | 1312 | 1712.4 | 22.90 | 23.00 | 1.0233 | 0.9865 |
| 49 | RMC 12.2k | Front Side | 1412 | 1732.4 | 22.43 | 23.00 | 1.1402 | 0.9673 |
| 50 | RMC 12.2k | Front Side | 1513 | 1752.6 | 22.65 | 23.00 | 1.0839 | 0.9686 |
| 51 | RMC 12.2k | Bottom side | 1312 | 1712.4 | 22.90 | 23.00 | 1.0233 | 1.1623 |
| 52 | RMC 12.2k | Bottom side | 1412 | 1732.4 | 22.43 | 23.00 | 1.1402 | 1.1237 |
| 53 | RMC 12.2k | Bottom side | 1513 | 1752.6 | 22.65 | 23.00 | 1.0839 | 1.1187 |
| 54 | RMC 12.2k | Right side | 1312 | 1712.4 | 22.90 | 23.00 | 1.0233 | 0.2688 |
| | | | | | | | | 0.2750 |

| LTE Band 2–Body SAR Test (Gap: 10mm) | | | | | | | | |
|--------------------------------------|--------------------------|-------------|-----------------------|-----------|-----------------------|----------------------|----------------|-----------------|
| Plot No. | Mode | | Test Position Head | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) |
| | Modulation, Bandwidth | MHz | | MHz | | | | |
| 59 | RMC,QPSK 5MHz | Back Side | 1880.0 | 23.41 | 24.0 | 1.1455 | 0.3974 | 0.4552 |
| 60 | RMC,QPSK 5MHz | Front Side | 1880.0 | 23.41 | 24.0 | 1.1455 | 0.6953 | 0.7965 |
| 61 | RMC,QPSK 5MHz | Bottom side | 1880.0 | 23.41 | 24.0 | 1.1455 | 0.6547 | 0.7499 |
| 62 | RMC,QPSK 5MHz | Right side | 1880.0 | 23.41 | 24.0 | 1.1455 | 0.1783 | 0.2043 |

| LTE Band 4–Body SAR Test (Gap: 10mm) | | | | | | | | |
|--------------------------------------|--------------------------|-------------|-----------------------|-----------|-----------------------|----------------------|----------------|-----------------|
| Plot No. | Mode | | Test Position Head | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) |
| | Modulation, Bandwidth | MHz | | MHz | | | | |
| 67 | RMC,QPSK 20MHz | Back Side | 1720.0 | 23.56 | 24.0 | 1.1066 | 0.5768 | 0.6383 |
| 68 | RMC,QPSK 20MHz | Front Side | 1720.0 | 23.56 | 24.0 | 1.1066 | 0.7918 | 0.8762 |
| 69 | RMC,QPSK 20MHz | Bottom side | 1720.0 | 23.56 | 24.0 | 1.1066 | 0.8305 | 0.9190 |
| 70 | RMC,QPSK 20MHz | Bottom side | 1732.5 | 23.51 | 24.0 | 1.1194 | 0.7840 | 0.8776 |
| 71 | RMC,QPSK 20MHz | Bottom side | 1745.0 | 23.45 | 24.0 | 1.1350 | 0.8600 | 0.9761 |
| 72 | RMC,QPSK 20MHz | Right side | 1720.0 | 23.56 | 24.0 | 1.1066 | 0.1813 | 0.2006 |

| LTE Band 5-Body SAR Test (Gap: 10mm) | | | | | | | | | |
|--------------------------------------|-----------------------|-------|--------------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | | Test Position Head | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | Modulation, Bandwidth | | | MHz | | | | | |
| 77 | RMC,QPSK | 10MHz | Back Side | 844.0 | 23.63 | 24.0 | 1.0889 | 0.1568 | 0.1708 |
| 78 | RMC,QPSK | 10MHz | Front Side | 844.0 | 23.63 | 24.0 | 1.0889 | 0.1281 | 0.1395 |
| 79 | RMC,QPSK | 10MHz | Bottom side | 844.0 | 23.63 | 24.0 | 1.0889 | 0.0397 | 0.0433 |
| 80 | RMC,QPSK | 10MHz | Right side | 844.0 | 23.63 | 24.0 | 1.0889 | 0.1405 | 0.1530 |

| WLAN 2.4GHz -Body SAR Test | | | | | | | | | |
|----------------------------|---------|--------------------|-----------|------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No. | Mode | Test Position Body | Frequency | | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
| | | | CH. | MHz | | | | | |
| 85 | 802.11b | Back Side | 01 | 2412 | 13.48 | 14.5 | 1.2647 | 0.0948 | 0.1199 |
| 86 | 802.11b | Front Side | 01 | 2412 | 13.48 | 14.5 | 1.2647 | 0.0852 | 0.1078 |
| 87 | 802.11b | Top side | 01 | 2412 | 13.48 | 14.5 | 1.2647 | 0.0515 | 0.0651 |
| 88 | 802.11b | Right side | 01 | 2412 | 13.48 | 14.5 | 1.2647 | 0.0543 | 0.0687 |

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

9.3 Simultaneous Multi-band Transmission SAR Analysis

List of Mode for Simultaneous Multi-band Transmission

| No. | Configurations | Head SAR | Body-worn SAR | Hotspot SAR |
|-----|--------------------------|----------|---------------|-------------|
| 1 | GSM + WLAN | Yes | Yes | - |
| 2 | GPRS + WLAN | - | - | Yes |
| 3 | WCDMA + WLAN | Yes | Yes | - |
| 4 | HSDPA + WLAN | - | - | Yes |
| 5 | HSUPA + WLAN | - | - | Yes |
| 6 | LTE + WLAN | Yes | Yes | Yes |
| 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:

$$(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})/x}] \text{ W/kg}$$
 for test separation distances $\leq 50 \text{ mm}$;
where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.

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

Bluetooth:

| Tune-Up Power (dBm) | Max. Power (mW) | Distance (mm) | Frequency (GHz) | X | SAR(1g) 5mm | SAR(1g) 10mm |
|---------------------|-----------------|---------------|-----------------|-----|-------------|--------------|
| 5.5 | 3.5481 | 5/10 | 2.402 | 7.5 | 0.1466 | 0.0733 |

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 | 0.2286 | 0.3725 | 0.6011 |
| Right Tilted | GSM850 | 0.0782 | 0.2164 | 0.2946 |
| Left Cheek | GSM850 | 0.2485 | 0.1333 | 0.3818 |
| Left Tilted | GSM850 | 0.0573 | 0.0689 | 0.1262 |
| Right Cheek | GSM1900 | 0.0542 | 0.3725 | 0.4267 |
| Right Tilted | GSM1900 | 0.0135 | 0.2164 | 0.2299 |
| Left Cheek | GSM1900 | 0.0514 | 0.1333 | 0.1847 |
| Left Tilted | GSM1900 | 0.0105 | 0.0689 | 0.0794 |
| Right Cheek | WCDMA Band 2 | 0.3044 | 0.3725 | 0.6769 |
| Right Tilted | WCDMA Band 2 | 0.0509 | 0.2164 | 0.2673 |
| Left Cheek | WCDMA Band 2 | 0.2446 | 0.1333 | 0.3779 |
| Left Tilted | WCDMA Band 2 | 0.0474 | 0.0689 | 0.1163 |
| Right Cheek | WCDMA Band 5 | 0.2025 | 0.3725 | 0.5750 |
| Right Tilted | WCDMA Band 5 | 0.1664 | 0.2164 | 0.3828 |
| Left Cheek | WCDMA Band 5 | 0.1914 | 0.1333 | 0.3247 |
| Left Tilted | WCDMA Band 5 | 0.1344 | 0.0689 | 0.2033 |
| Right Cheek | WCDMA Band 4 | 0.2142 | 0.3725 | 0.5867 |
| Right Tilted | WCDMA Band 4 | 0.0515 | 0.2164 | 0.2679 |
| Left Cheek | WCDMA Band 4 | 0.2834 | 0.1333 | 0.4167 |
| Left Tilted | WCDMA Band 4 | 0.0304 | 0.0689 | 0.0993 |
| Right Cheek | LTE Band 2 | 0.2337 | 0.3725 | 0.6062 |
| Right Tilted | LTE Band 2 | 0.0466 | 0.2164 | 0.2630 |
| Left Cheek | LTE Band 2 | 0.2019 | 0.1333 | 0.3352 |
| Left Tilted | LTE Band 2 | 0.0365 | 0.0689 | 0.1054 |
| Right Cheek | LTE Band 4 | 0.3472 | 0.3725 | 0.7197 |
| Right Tilted | LTE Band 4 | 0.0332 | 0.2164 | 0.2496 |
| Left Cheek | LTE Band 4 | 0.2094 | 0.1333 | 0.3427 |
| Left Tilted | LTE Band 4 | 0.0268 | 0.0689 | 0.0957 |
| Right Cheek | LTE Band 5 | 0.0943 | 0.3725 | 0.4668 |
| Right Tilted | LTE Band 5 | 0.0544 | 0.2164 | 0.2708 |
| Left Cheek | LTE Band 5 | 0.0837 | 0.1333 | 0.2170 |
| Left Tilted | LTE Band 5 | 0.0487 | 0.0689 | 0.1176 |

WWAN and Bluetooth

| Position | WWAN | | Bluetooth | Summed SAR (W/kg) |
|-----------------|--------------|------------------------------|------------------------------|------------------------------|
| | Band | Scaled SAR (W/kg) | Scaled SAR (W/kg) | |
| Right Cheek | GSM850 | 0.2286 | 0.1466 | 0.3752 |
| Right Tilted | GSM850 | 0.0782 | 0.1466 | 0.2248 |
| Left Cheek | GSM850 | 0.2485 | 0.1466 | 0.3951 |
| Left Tilted | GSM850 | 0.0643 | 0.1466 | 0.2109 |
| Right Cheek | GSM1900 | 0.0542 | 0.1466 | 0.2008 |
| Right Tilted | GSM1900 | 0.0135 | 0.1466 | 0.1601 |
| Left Cheek | GSM1900 | 0.0514 | 0.1466 | 0.1980 |
| Left Tilted | GSM1900 | 0.0105 | 0.1466 | 0.1571 |
| Right Cheek | WCDMA Band 2 | 0.3044 | 0.1466 | 0.4510 |
| Right Tilted | WCDMA Band 2 | 0.0509 | 0.1466 | 0.1975 |
| Left Cheek | WCDMA Band 2 | 0.2446 | 0.1466 | 0.3912 |
| Left Tilted | WCDMA Band 2 | 0.0474 | 0.1466 | 0.1940 |
| Right Cheek | WCDMA Band 5 | 0.2025 | 0.1466 | 0.3491 |
| Right Tilted | WCDMA Band 5 | 0.1664 | 0.1466 | 0.3130 |
| Left Cheek | WCDMA Band 5 | 0.1914 | 0.1466 | 0.3380 |
| Left Tilted | WCDMA Band 5 | 0.1344 | 0.1466 | 0.2810 |
| Right Cheek | WCDMA Band 4 | 0.2142 | 0.1466 | 0.3608 |
| Right Tilted | WCDMA Band 4 | 0.0515 | 0.1466 | 0.1981 |
| Left Cheek | WCDMA Band 4 | 0.2834 | 0.1466 | 0.4300 |
| Left Tilted | WCDMA Band 4 | 0.0304 | 0.1466 | 0.1770 |
| Right Cheek | LTE Band 2 | 0.2337 | 0.1466 | 0.3803 |
| Right Tilted | LTE Band 2 | 0.0466 | 0.1466 | 0.1932 |
| Left Cheek | LTE Band 2 | 0.2019 | 0.1466 | 0.3485 |
| Left Tilted | LTE Band 2 | 0.0365 | 0.1466 | 0.1831 |
| Right Cheek | LTE Band 4 | 0.3472 | 0.1466 | 0.4938 |
| Right Tilted | LTE Band 4 | 0.0332 | 0.1466 | 0.1798 |
| Left Cheek | LTE Band 4 | 0.2094 | 0.1466 | 0.3560 |
| Left Tilted | LTE Band 4 | 0.0268 | 0.1466 | 0.1734 |
| Right Cheek | LTE Band 5 | 0.0943 | 0.1466 | 0.2409 |
| Right Tilted | LTE Band 5 | 0.0544 | 0.1466 | 0.2010 |
| Left Cheek | LTE Band 5 | 0.0837 | 0.1466 | 0.2303 |
| Left Tilted | LTE Band 5 | 0.0487 | 0.1466 | 0.1953 |

Body-worn SAR
WWAN and WLAN

| Position | WWAN | | WLAN | Summed SAR (W/kg) |
|-----------------|--------------|------------------------------|------------------------------|------------------------------|
| | Band | Scaled SAR (W/kg) | Scaled SAR (W/kg) | |
| Back | GSM850 | 0.4954 | 0.0948 | 0.5902 |
| Front | GSM850 | 0.4985 | 0.0852 | 0.5837 |
| Back | GSM1900 | 0.3535 | 0.0948 | 0.4483 |
| Front | GSM1900 | 0.3021 | 0.0852 | 0.3873 |
| Back | WCDMA Band 2 | 0.4968 | 0.0948 | 0.5916 |
| Front | WCDMA Band 2 | 0.6804 | 0.0852 | 0.7656 |
| Back | WCDMA Band 5 | 0.3190 | 0.0948 | 0.4138 |
| Front | WCDMA Band 5 | 0.2603 | 0.0852 | 0.3455 |
| Back | WCDMA Band 4 | 0.7802 | 0.0948 | 0.8750 |
| Front | WCDMA Band 4 | 1.1029 | 0.0852 | 1.1881 |
| Back | LTE Band 2 | 0.4552 | 0.0948 | 0.5500 |
| Front | LTE Band 2 | 0.7965 | 0.0852 | 0.8817 |
| Back | LTE Band 4 | 0.6383 | 0.0948 | 0.7331 |
| Front | LTE Band 4 | 0.8762 | 0.0852 | 0.9614 |
| Back | LTE Band 5 | 0.1708 | 0.0948 | 0.2656 |
| Front | LTE Band 5 | 0.1395 | 0.0852 | 0.2247 |

WWAN and Bluetooth

| Position | WWAN | | Bluetooth | Summed SAR (W/kg) |
|-----------------|--------------|------------------------------|------------------------------|------------------------------|
| | Band | Scaled SAR (W/kg) | Scaled SAR (W/kg) | |
| Back | GSM850 | 0.4954 | 0.0733 | 0.5687 |
| Front | GSM850 | 0.4985 | 0.0733 | 0.5718 |
| Back | GSM1900 | 0.3535 | 0.0733 | 0.4268 |
| Front | GSM1900 | 0.3021 | 0.0733 | 0.3754 |
| Back | WCDMA Band 2 | 0.4968 | 0.0733 | 0.5701 |
| Front | WCDMA Band 2 | 0.6804 | 0.0733 | 0.7537 |
| Back | WCDMA Band 5 | 0.3190 | 0.0733 | 0.3923 |
| Front | WCDMA Band 5 | 0.2603 | 0.0733 | 0.3336 |
| Back | WCDMA Band 4 | 0.7802 | 0.0733 | 0.8535 |
| Front | WCDMA Band 4 | 1.1029 | 0.0733 | 1.1762 |
| Back | LTE Band 2 | 0.4552 | 0.0733 | 0.5285 |
| Front | LTE Band 2 | 0.7965 | 0.0733 | 0.8698 |
| Back | LTE Band 4 | 0.6383 | 0.0733 | 0.7116 |
| Front | LTE Band 4 | 0.8762 | 0.0733 | 0.9495 |
| Back | LTE Band 5 | 0.1708 | 0.0733 | 0.2441 |
| Front | LTE Band 5 | 0.1395 | 0.0733 | 0.2128 |

Hotspot SAR
WWAN and WLAN

| Position | WWAN | | WLAN | Summed SAR (W/kg) |
|-----------------|--------------|------------------------------|------------------------------|------------------------------|
| | Band | Scaled SAR (W/kg) | Scaled SAR (W/kg) | |
| Back | GSM850 | 1.0543 | 0.1199 | 1.1742 |
| Front | GSM850 | 0.8415 | 0.1078 | 0.9493 |
| Top side | GSM850 | -- | 0.0651 | 0.0651 |
| Bottom side | GSM850 | 0.4884 | -- | 0.4884 |
| Right side | GSM850 | 0.4863 | 0.0687 | 0.555 |
| Left side | GSM850 | -- | -- | -- |
| Back | GSM1900 | 0.5879 | 0.1199 | 0.7078 |
| Front | GSM1900 | 0.5942 | 0.1078 | 0.702 |
| Top side | GSM1900 | -- | 0.0651 | 0.0651 |
| Bottom side | GSM1900 | 1.4880 | -- | 1.4880 |
| Right side | GSM1900 | 0.1451 | 0.0687 | 0.2138 |
| Left side | GSM1900 | -- | -- | -- |
| Back | WCDMA Band 2 | 0.4968 | 0.1199 | 0.6167 |
| Front | WCDMA Band 2 | 0.6804 | 0.1078 | 0.7882 |
| Top side | WCDMA Band 2 | -- | 0.0651 | 0.0651 |
| Bottom side | WCDMA Band 2 | 0.9205 | -- | 0.9205 |
| Right side | WCDMA Band 2 | 0.3247 | 0.0687 | 0.3934 |
| Left side | WCDMA Band 2 | -- | -- | -- |
| Back | WCDMA Band 5 | 0.3190 | 0.1199 | 0.4389 |
| Front | WCDMA Band 5 | 0.2603 | 0.1078 | 0.3681 |
| Top side | WCDMA Band 5 | -- | 0.0651 | 0.0651 |
| Bottom side | WCDMA Band 5 | 0.1677 | -- | 0.1677 |
| Right side | WCDMA Band 5 | 0.2927 | 0.0687 | 0.3614 |
| Left side | WCDMA Band 5 | -- | -- | -- |
| Back | WCDMA Band 4 | 0.7802 | 0.1199 | 0.9001 |
| Front | WCDMA Band 4 | 1.1029 | 0.1078 | 1.2107 |
| Top side | WCDMA Band 4 | -- | 0.0651 | 0.0651 |
| Bottom side | WCDMA Band 4 | 1.2813 | -- | 1.2813 |
| Right side | WCDMA Band 4 | 0.2750 | 0.0687 | 0.3437 |
| Left side | WCDMA Band 4 | -- | -- | -- |
| Back | LTE Band 2 | 0.4552 | 0.1199 | 0.5751 |
| Front | LTE Band 2 | 0.7965 | 0.1078 | 0.9043 |
| Top side | LTE Band 2 | -- | 0.0651 | 0.0651 |
| Bottom side | LTE Band 2 | 0.7499 | -- | 0.7499 |
| Right side | LTE Band 2 | 0.2043 | 0.0687 | 0.273 |
| Left side | LTE Band 2 | -- | -- | -- |
| Back | LTE Band 4 | 0.6383 | 0.1199 | 0.7582 |

| | | | | |
|-------------|------------|--------|--------|--------|
| Front | LTE Band 4 | 0.8762 | 0.1078 | 0.984 |
| Top side | LTE Band 4 | -- | 0.0651 | 0.0651 |
| Bottom side | LTE Band 4 | 0.9761 | -- | 0.9761 |
| Right side | LTE Band 4 | 0.2006 | 0.0687 | 0.2693 |
| Left side | LTE Band 4 | -- | -- | -- |
| Back | LTE Band 5 | 0.1708 | 0.1199 | 0.2907 |
| Front | LTE Band 5 | 0.1395 | 0.1078 | 0.2473 |
| Top side | LTE Band 5 | -- | 0.0651 | 0.0651 |
| Bottom side | LTE Band 5 | 0.0433 | -- | 0.0433 |
| Right side | LTE Band 5 | 0.1530 | 0.0687 | 0.2217 |
| Left side | LTE Band 5 | -- | -- | -- |

WWAN and Bluetooth

| Position | WWAN | | Bluetooth | Summed SAR (W/kg) |
|-------------|--------------|----------------------|----------------------|----------------------|
| | Band | Scaled SAR (W/kg) | Scaled SAR (W/kg) | |
| Back | GSM850 | 1.0543 | 0.0733 | 1.1276 |
| Front | GSM850 | 0.8415 | 0.0733 | 0.9148 |
| Top side | GSM850 | -- | 0.0733 | 0.0733 |
| Bottom side | GSM850 | 0.4884 | 0.0733 | 0.5617 |
| Right side | GSM850 | 0.4863 | 0.0733 | 0.5596 |
| Left side | GSM850 | -- | 0.0733 | 0.0733 |
| Back | GSM1900 | 0.5879 | 0.0733 | 0.6612 |
| Front | GSM1900 | 0.5942 | 0.0733 | 0.6675 |
| Top side | GSM1900 | -- | 0.0733 | 0.0733 |
| Bottom side | GSM1900 | 1.4880 | 0.0733 | 1.5613 |
| Right side | GSM1900 | 0.1451 | 0.0733 | 0.2184 |
| Left side | GSM1900 | -- | 0.0733 | 0.0733 |
| Back | WCDMA Band 2 | 0.4968 | 0.0733 | 0.5701 |
| Front | WCDMA Band 2 | 0.6804 | 0.0733 | 0.7537 |
| Top side | WCDMA Band 2 | -- | 0.0733 | 0.0733 |
| Bottom side | WCDMA Band 2 | 0.9205 | 0.0733 | 0.9938 |
| Right side | WCDMA Band 2 | 0.3247 | 0.0733 | 0.3980 |
| Left side | WCDMA Band 2 | -- | 0.0733 | 0.0733 |
| Back | WCDMA Band 5 | 0.3190 | 0.0733 | 0.3923 |
| Front | WCDMA Band 5 | 0.2603 | 0.0733 | 0.3336 |
| Top side | WCDMA Band 5 | -- | 0.0733 | 0.0733 |
| Bottom side | WCDMA Band 5 | 0.1677 | 0.0733 | 0.2410 |
| Right side | WCDMA Band 5 | 0.2927 | 0.0733 | 0.3660 |
| Left side | WCDMA Band 5 | -- | 0.0733 | 0.0733 |
| Back | WCDMA Band 4 | 0.7802 | 0.0733 | 0.8535 |
| Front | WCDMA Band 4 | 1.1029 | 0.0733 | 1.1762 |
| Top side | WCDMA Band 4 | -- | 0.0733 | 0.0733 |

| | | | | |
|-------------|--------------|--------|--------|--------|
| Bottom side | WCDMA Band 4 | 1.2813 | 0.0733 | 1.3546 |
| Right side | WCDMA Band 4 | 0.2750 | 0.0733 | 0.3483 |
| Left side | WCDMA Band 4 | -- | 0.0733 | 0.0733 |
| Back | LTE Band 2 | 0.4552 | 0.0733 | 0.5285 |
| Front | LTE Band 2 | 0.7965 | 0.0733 | 0.8698 |
| Top side | LTE Band 2 | -- | 0.0733 | 0.0733 |
| Bottom side | LTE Band 2 | 0.7499 | 0.0733 | 0.8232 |
| Right side | LTE Band 2 | 0.2043 | 0.0733 | 0.2776 |
| Left side | LTE Band 2 | -- | 0.0733 | 0.0733 |
| Back | LTE Band 4 | 0.6383 | 0.0733 | 0.7116 |
| Front | LTE Band 4 | 0.8762 | 0.0733 | 0.9495 |
| Top side | LTE Band 4 | -- | 0.0733 | 0.0733 |
| Bottom side | LTE Band 4 | 0.9761 | 0.0733 | 1.0494 |
| Right side | LTE Band 4 | 0.2006 | 0.0733 | 0.2739 |
| Left side | LTE Band 4 | -- | 0.0733 | 0.0733 |
| Back | LTE Band 5 | 0.1708 | 0.0733 | 0.2441 |
| Front | LTE Band 5 | 0.1395 | 0.0733 | 0.2128 |
| Top side | LTE Band 5 | -- | 0.0733 | 0.0733 |
| Bottom side | LTE Band 5 | 0.0433 | 0.0733 | 0.1166 |
| Right side | LTE Band 5 | 0.1530 | 0.0733 | 0.2263 |
| Left side | LTE Band 5 | -- | 0.0733 | 0.0733 |

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: 09/28/2015

Measurement duration: 7 minutes 21 seconds

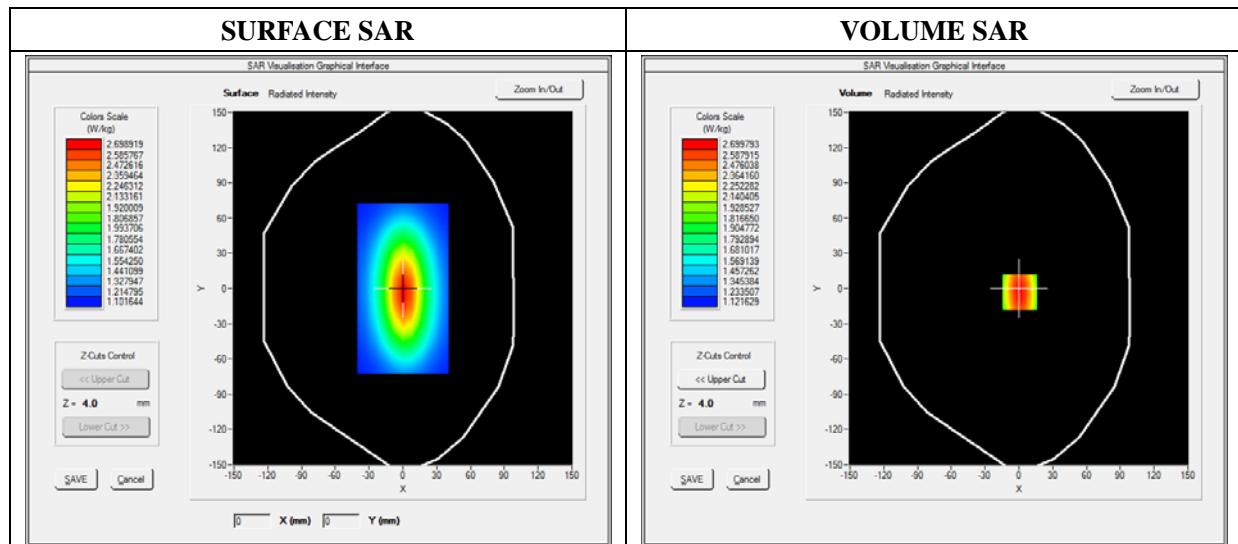
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

B. SAR Measurement Results

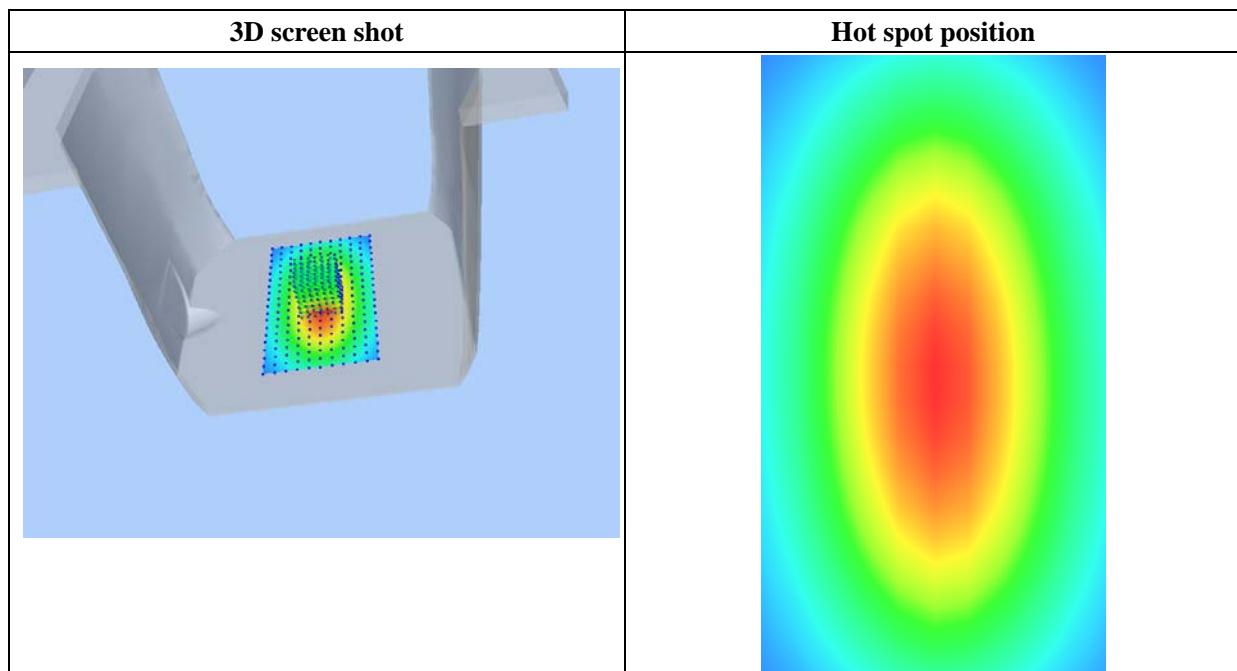
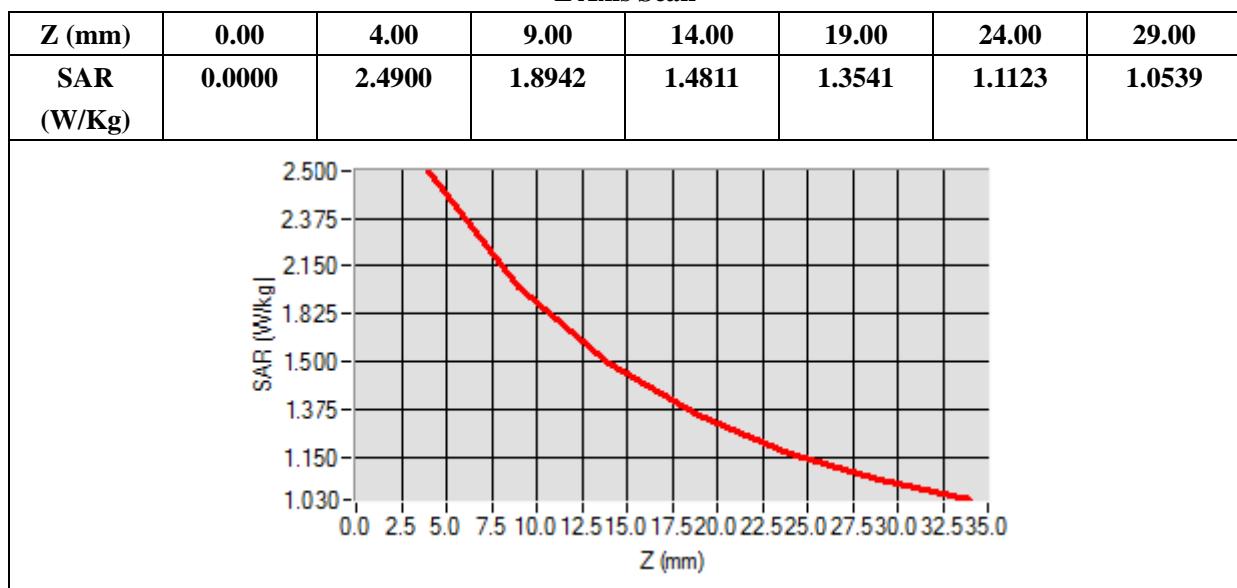
| | |
|--|------------|
| Frequency (MHz) | 835.000000 |
| Relative Permittivity (real part) | 41.110245 |
| Conductivity (S/m) | 0.871245 |
| Power Variation (%) | 0.038437 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=0.00, Y=0.00

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

Z Axis Scan



MEASUREMENT 2

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 21 seconds

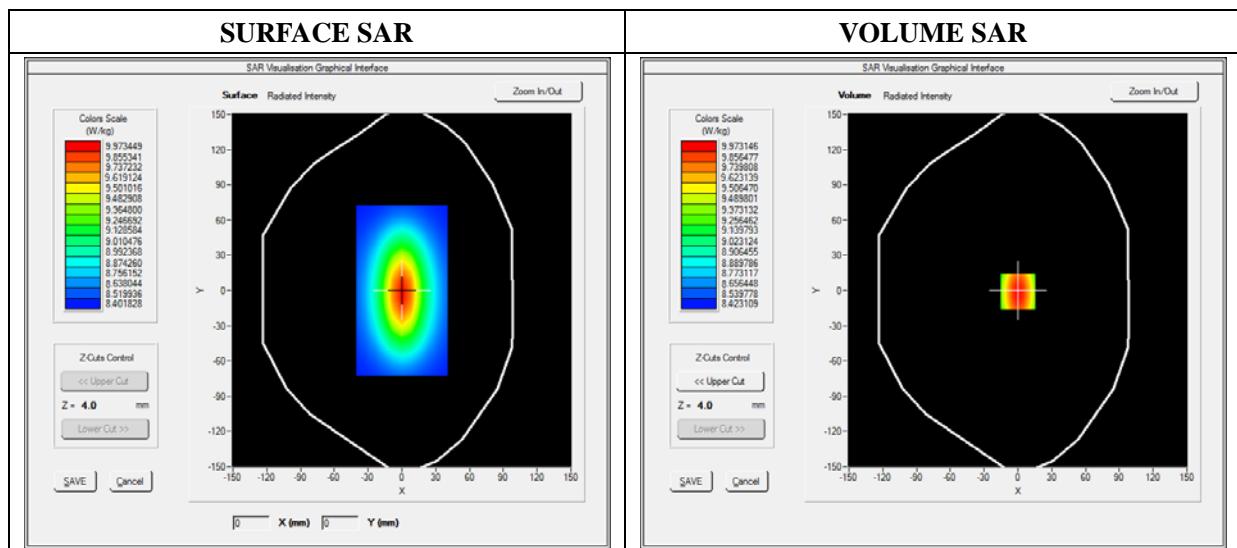
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.84; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|------------------------|
| Area Scan | dx=8mm dy=8mm |
| Phantom | Validation plane |
| Device Position | Dipole |
| Band | CW1800 |
| Signal | CW (Crest factor: 1.0) |

B. SAR Measurement Results

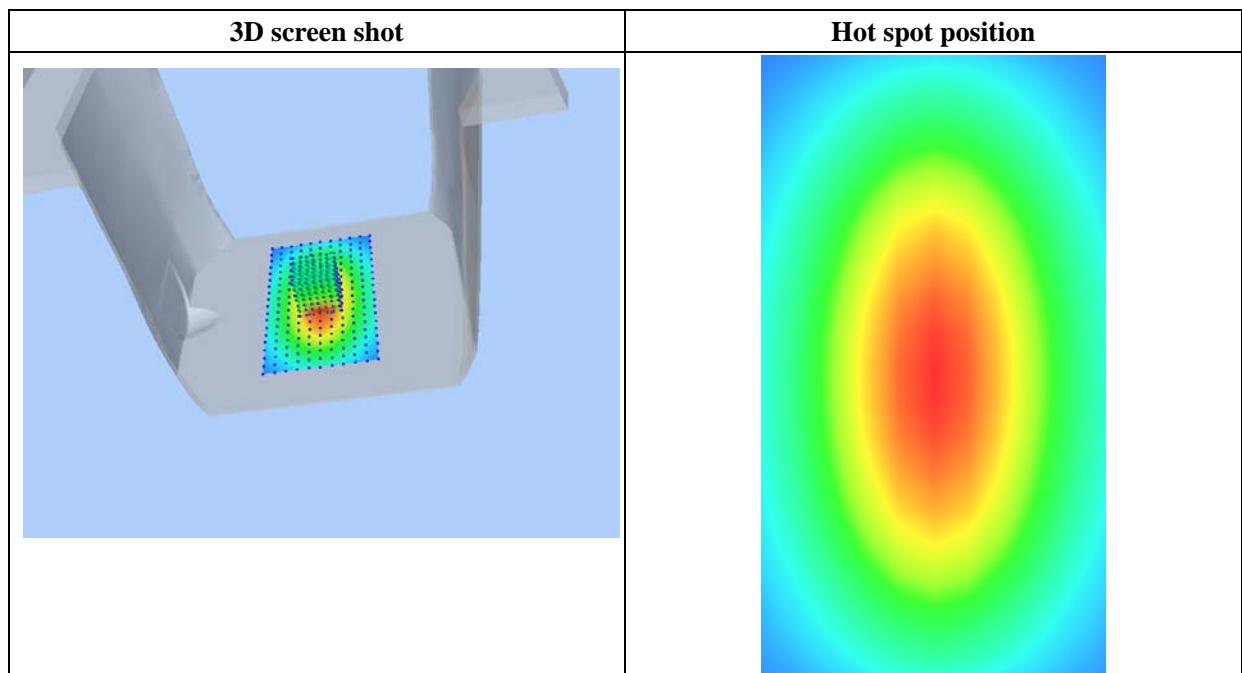
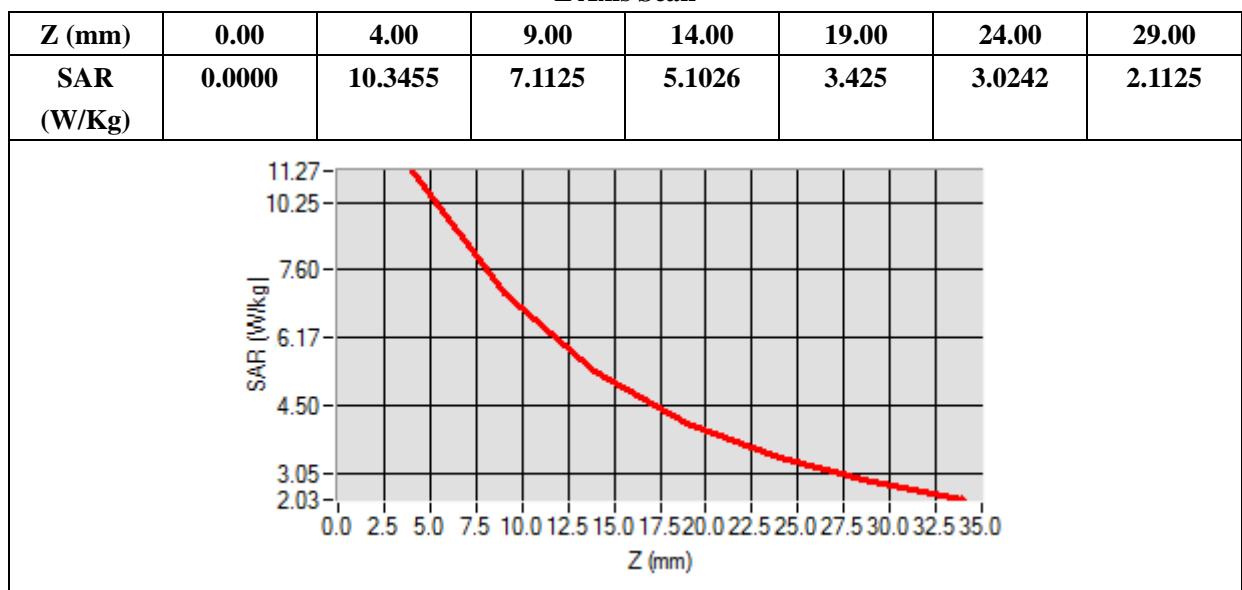
| | |
|--|-------------|
| Frequency (MHz) | 1800.000000 |
| Relative Permittivity (real part) | 39.024890 |
| Conductivity (S/m) | 1.371250 |
| Power Variation (%) | 1.401232 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.2 |



Maximum location: X=0.00, Y=0.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 5.171252 |
| SAR 1g (W/Kg) | 9.611250 |

Z Axis Scan



MEASUREMENT 3

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 21 seconds

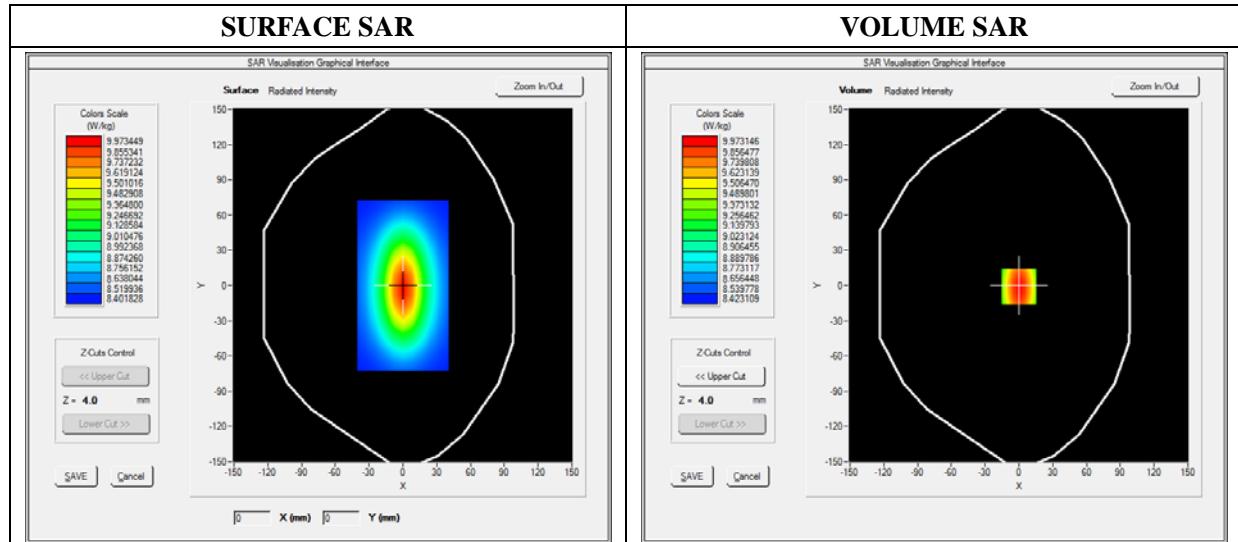
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

B. SAR Measurement Results

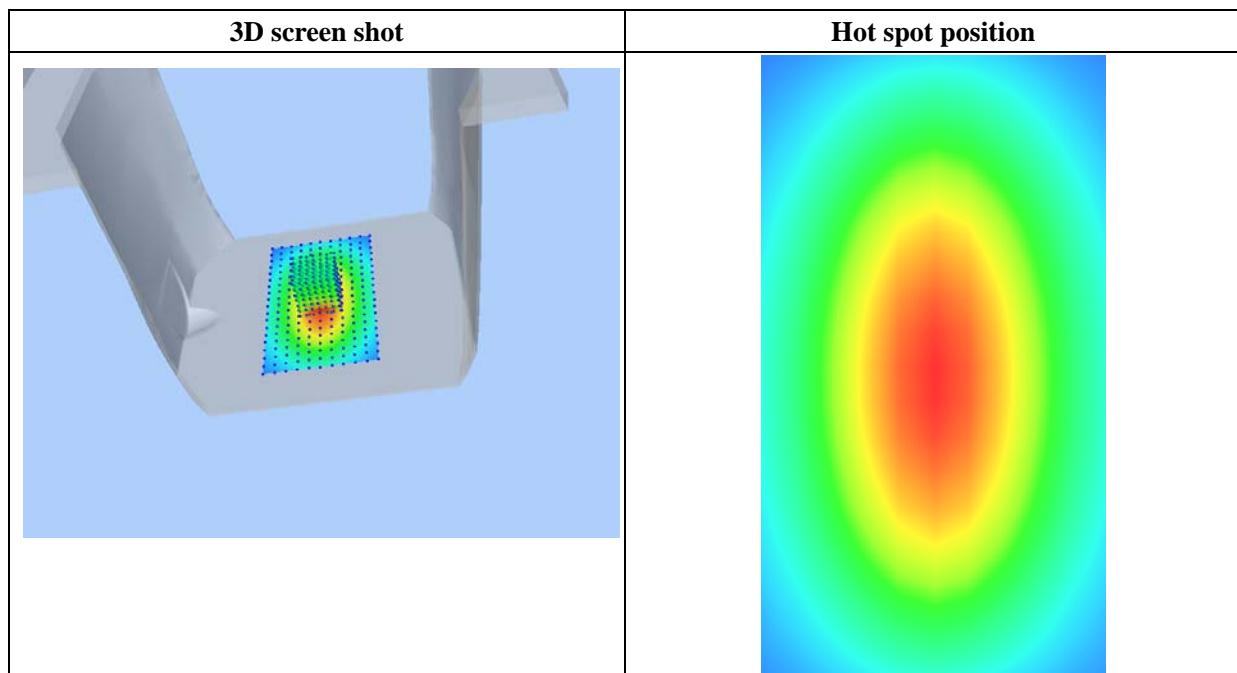
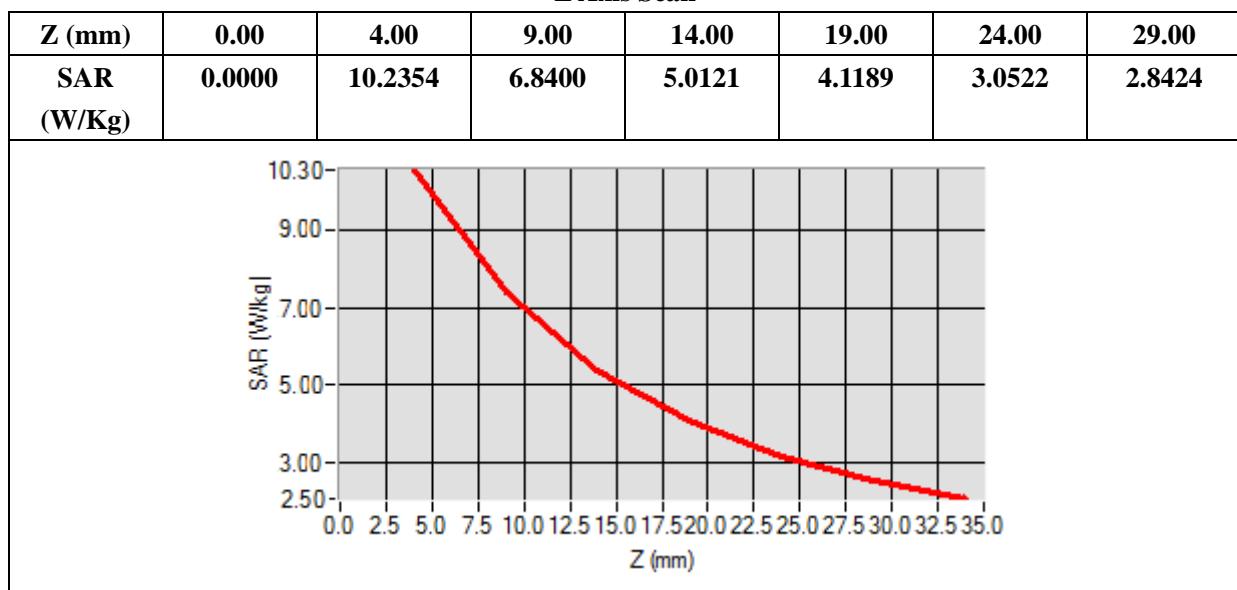
| | |
|--|-------------|
| Frequency (MHz) | 1900.000000 |
| Relative Permittivity (real part) | 38.560124 |
| Conductivity (S/m) | 1.380369 |
| Power Variation (%) | 1.022540 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=0.00, Y=0.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 7.174526 |
| SAR 1g (W/Kg) | 9.913214 |

Z Axis Scan



MEASUREMENT 4

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 21 seconds

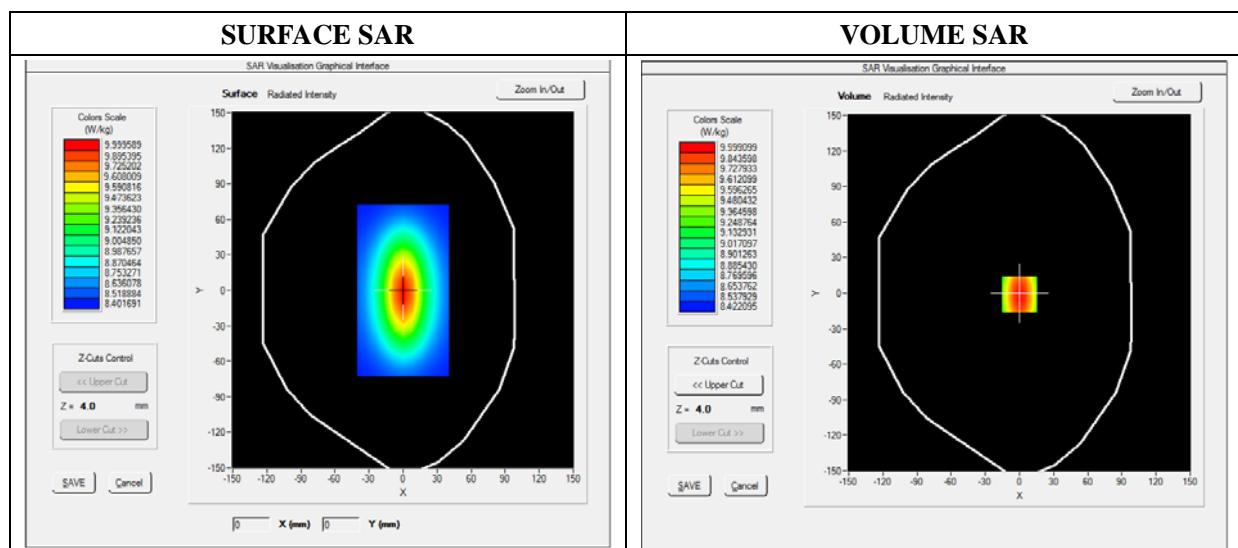
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.64; Calibrated: 06/03/2015

A. Experimental conditions

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

B. SAR Measurement Results

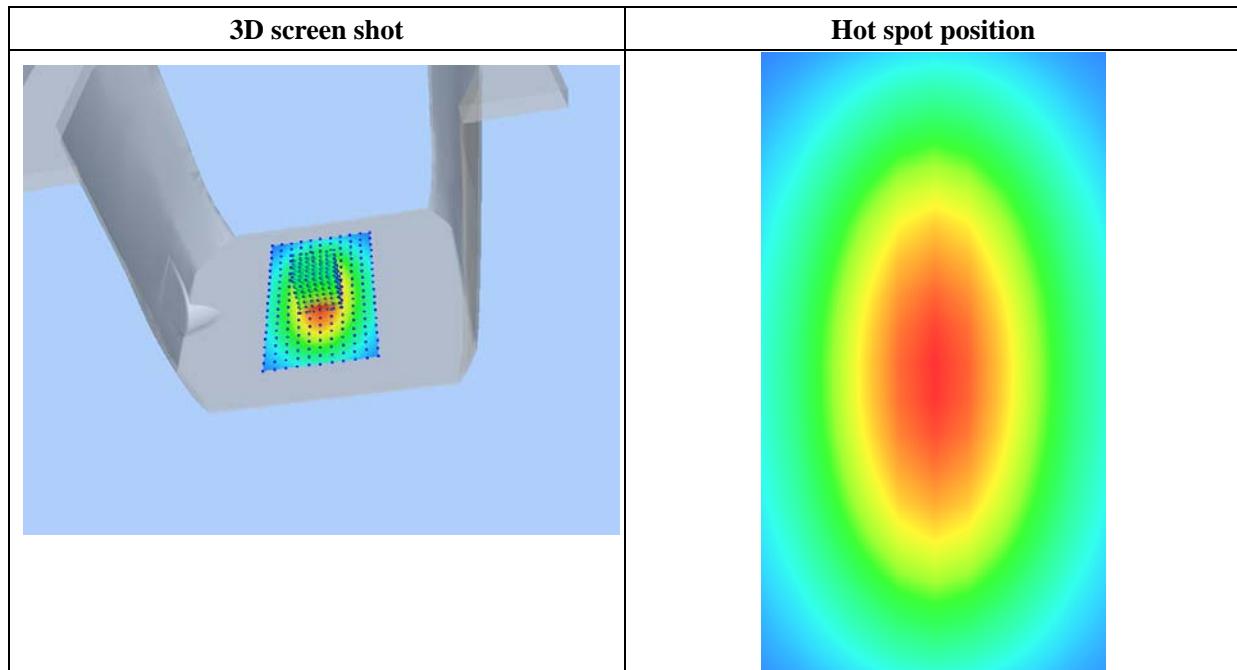
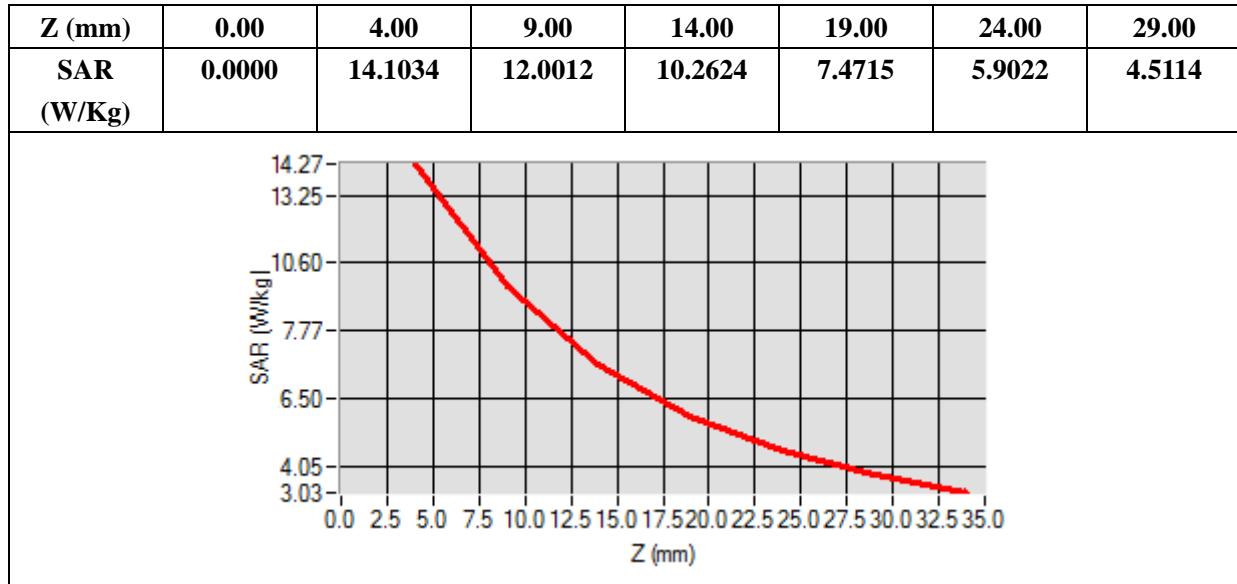
| | |
|--|-------------|
| Frequency (MHz) | 2450.000000 |
| Relative Permittivity (real part) | 38.153660 |
| Conductivity (S/m) | 1.740236 |
| Power Variation (%) | 1.141452 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.2 |



Maximum location: X=0.00, Y=0.00

| | |
|----------------|-----------|
| SAR 10g (W/Kg) | 8.020427 |
| SAR 1g (W/Kg) | 13.452457 |

Z Axis Scan



MEASUREMENT 5

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 21 seconds

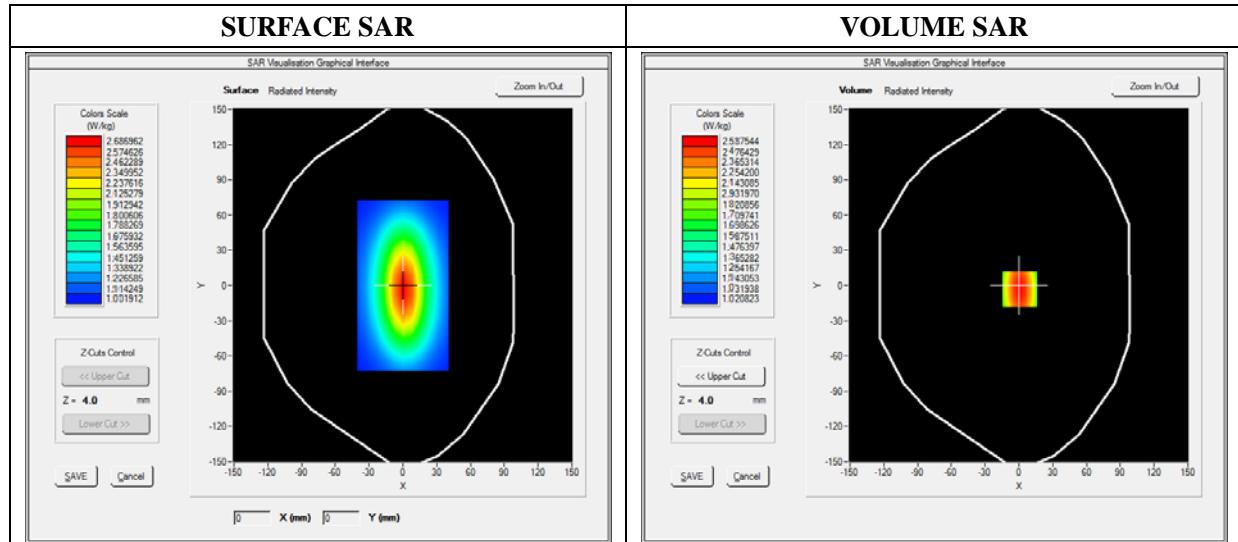
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

B. SAR Measurement Results

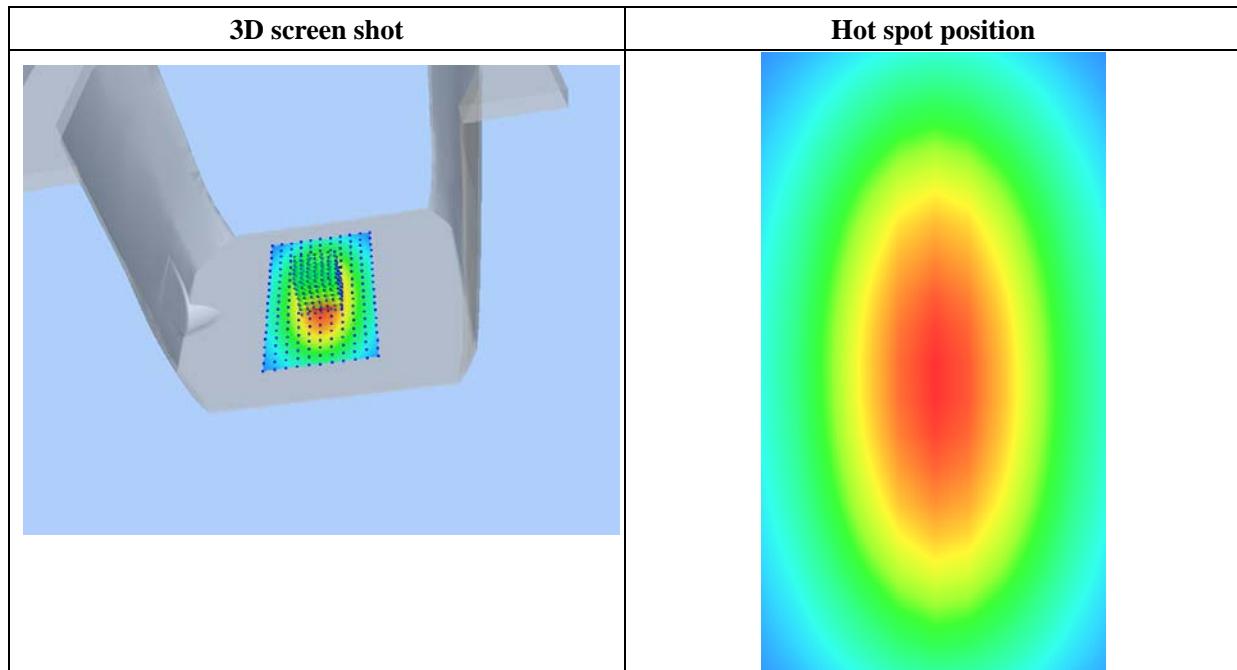
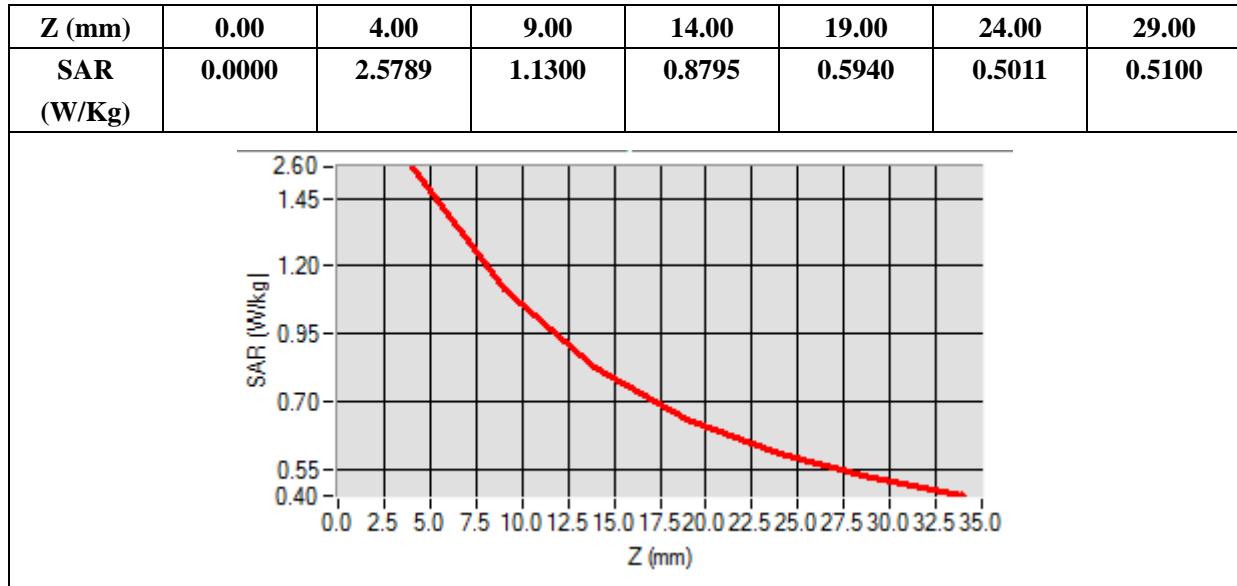
| | |
|--|------------|
| Frequency (MHz) | 835.000000 |
| Relative Permittivity (real part) | 54.851214 |
| Conductivity (S/m) | 0.951454 |
| Power Variation (%) | 0.901472 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=0.00, Y=0.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 1.028956 |
| SAR 1g (W/Kg) | 2.354211 |

Z Axis Scan



MEASUREMENT 6

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 21 seconds

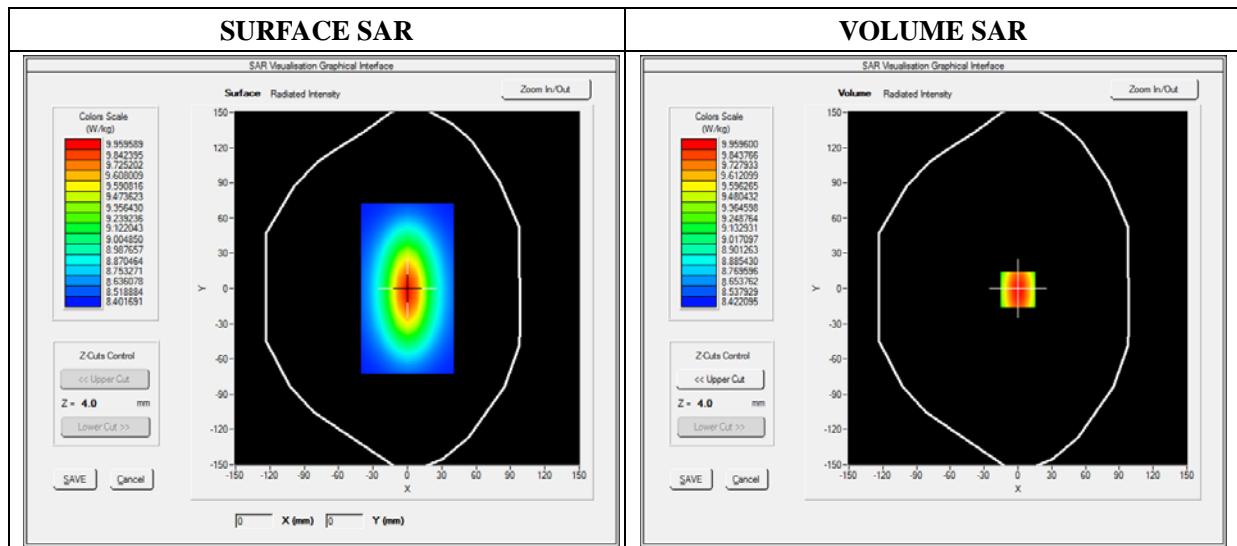
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.06; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|------------------------|
| Area Scan | dx=8mm dy=8mm |
| Phantom | Validation plane |
| Device Position | Dipole |
| Band | CW1800 |
| Signal | CW (Crest factor: 1.0) |

B. SAR Measurement Results

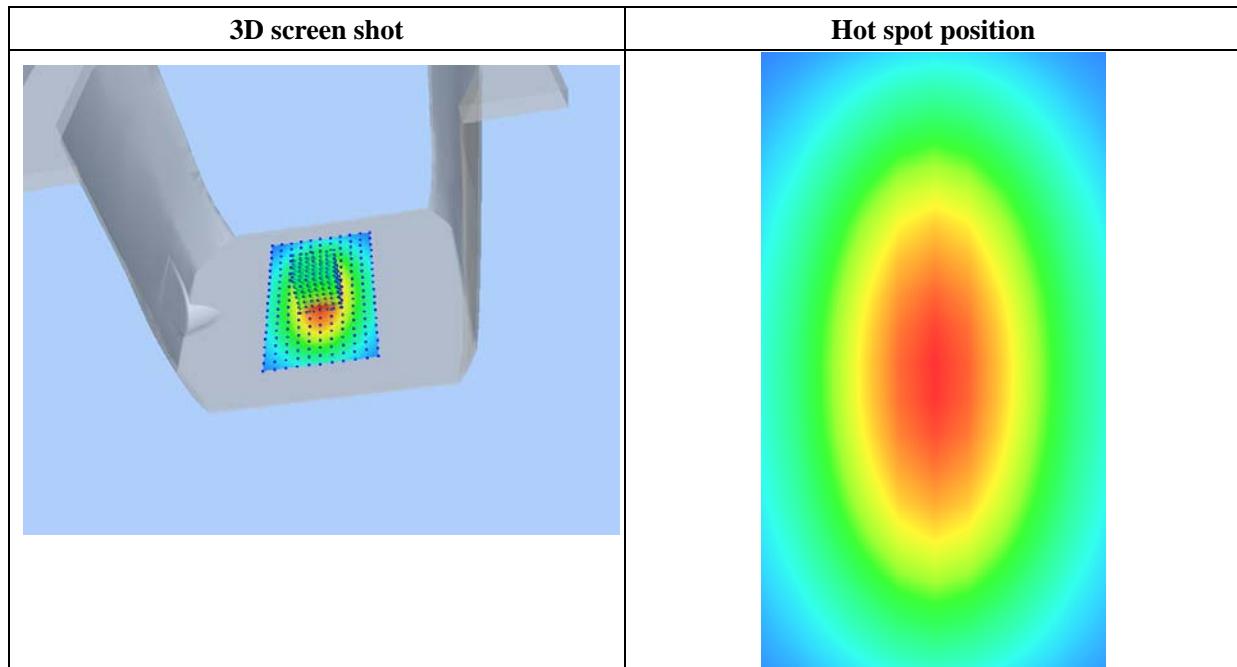
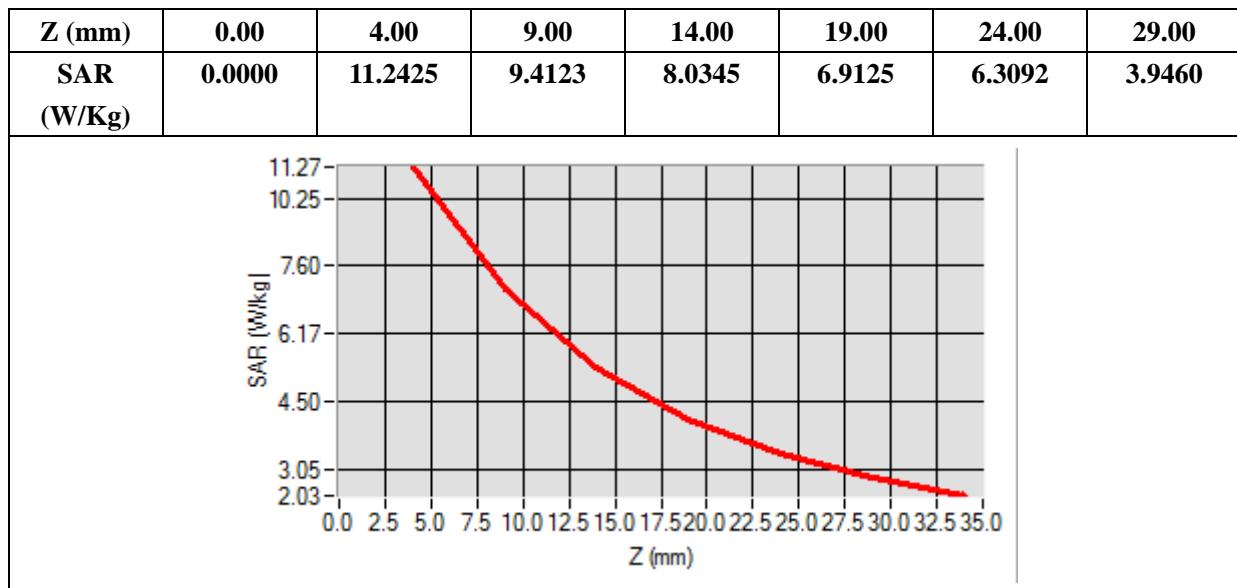
| | |
|--|-------------|
| Frequency (MHz) | 1800.000000 |
| Relative Permittivity (real part) | 51.224510 |
| Conductivity (S/m) | 1.461261 |
| Power Variation (%) | 0.845690 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.2 |



Maximum location: X=0.00, Y=0.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 5.221202 |
| SAR 1g (W/Kg) | 9.582560 |

Z Axis Scan



MEASUREMENT 7

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 21 seconds

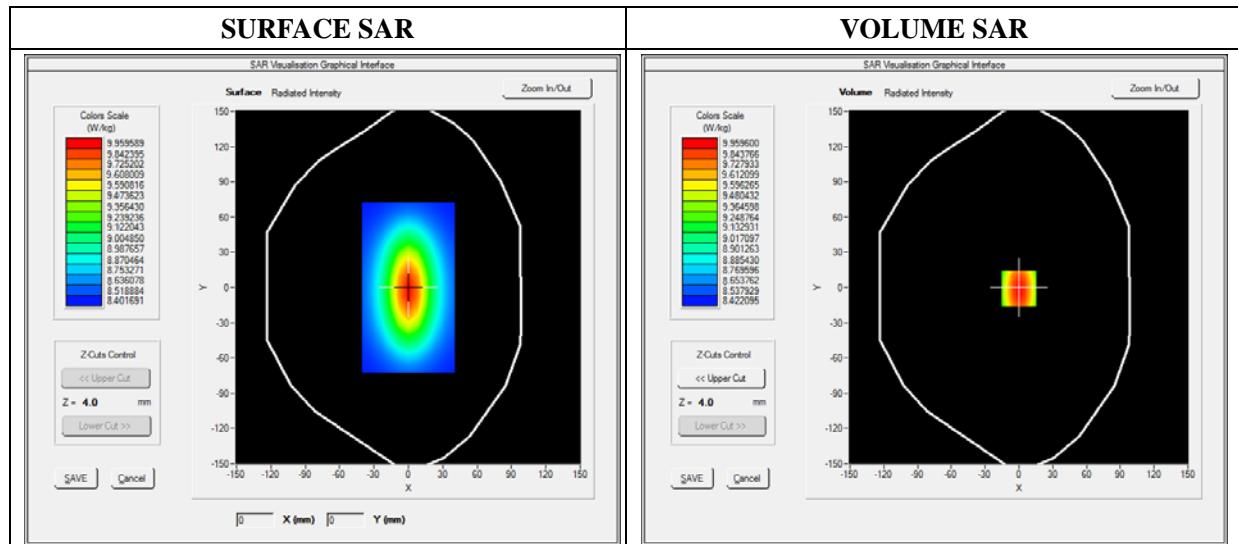
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

B. SAR Measurement Results

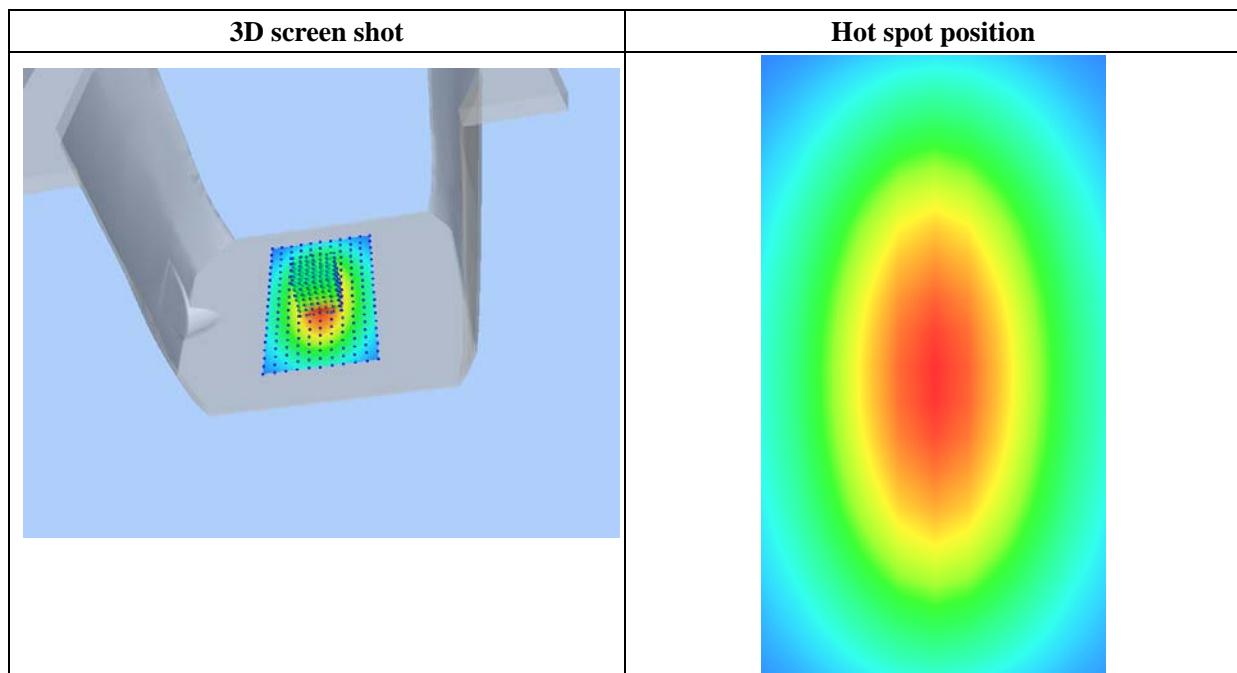
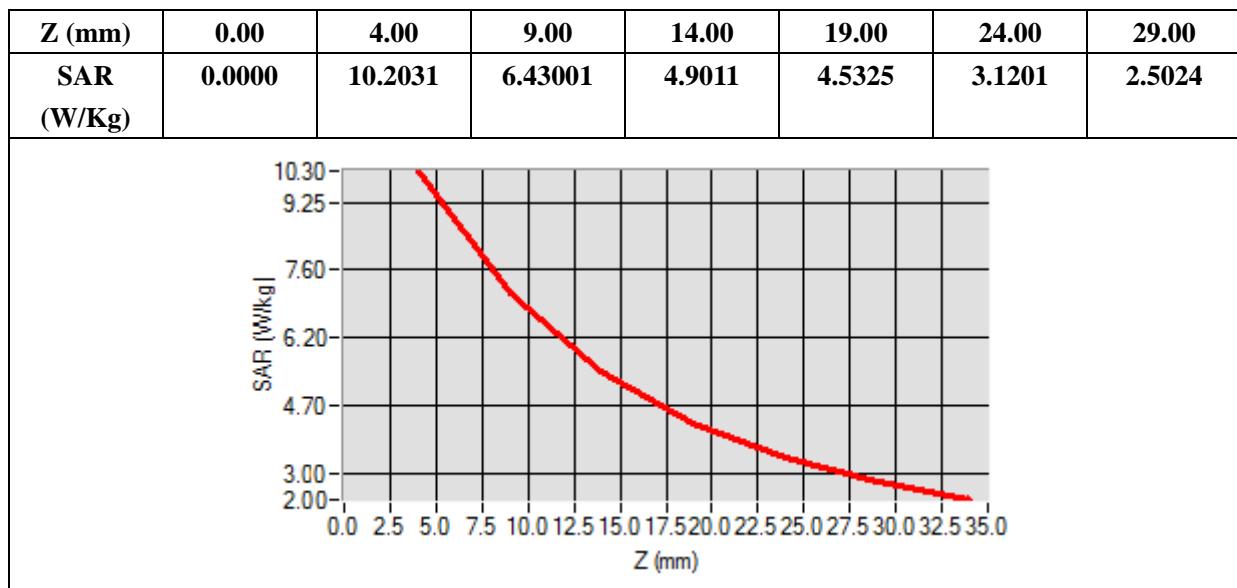
| | |
|--|-------------|
| Frequency (MHz) | 1900.000000 |
| Relative Permittivity (real part) | 52.420415 |
| Conductivity (S/m) | 1.501966 |
| Power Variation (%) | 0.541872 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=0.00, Y=0.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 5.134651 |
| SAR 1g (W/Kg) | 9.781550 |

Z Axis Scan



MEASUREMENT 8

For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 21 seconds

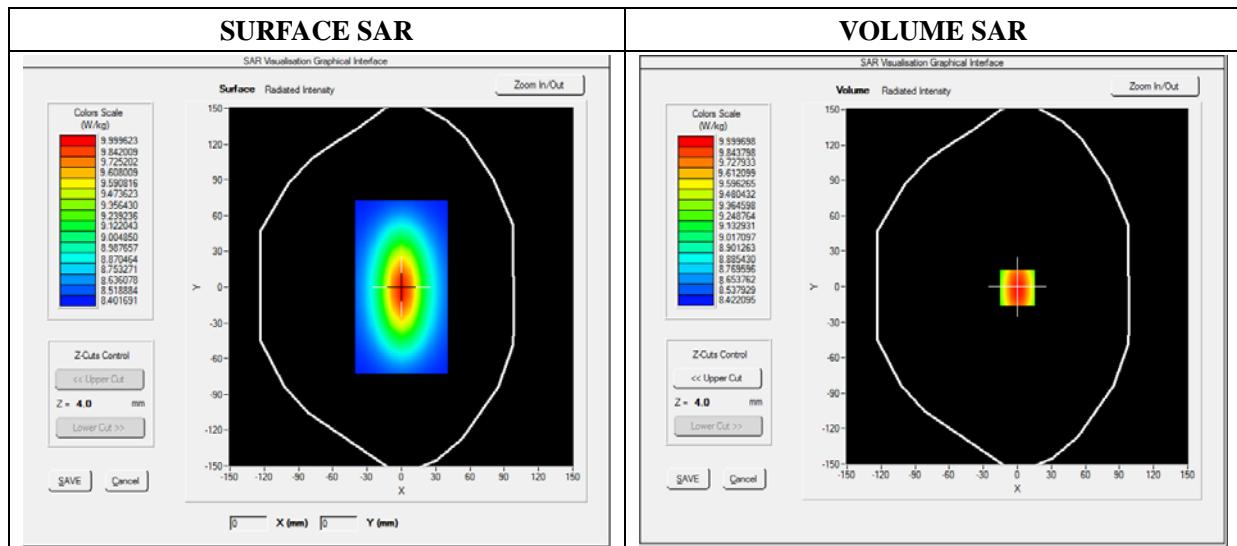
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 5.80; Calibrated: 06/03/2015

A. Experimental conditions

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

B. SAR Measurement Results

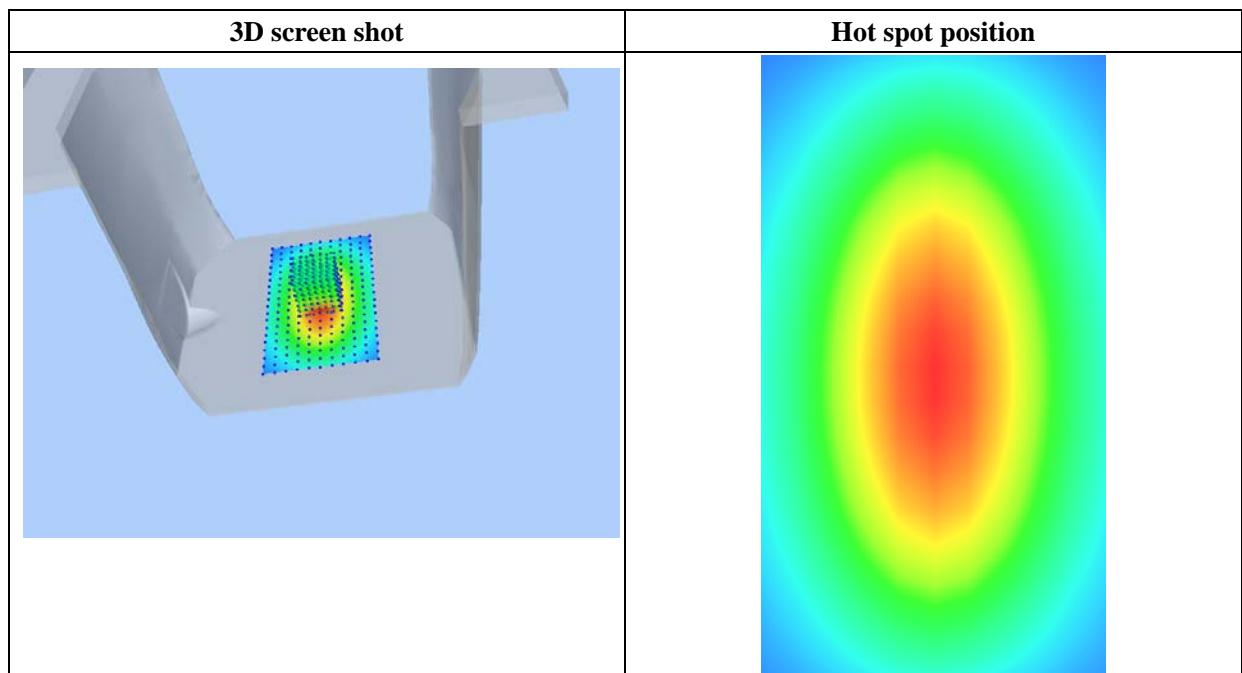
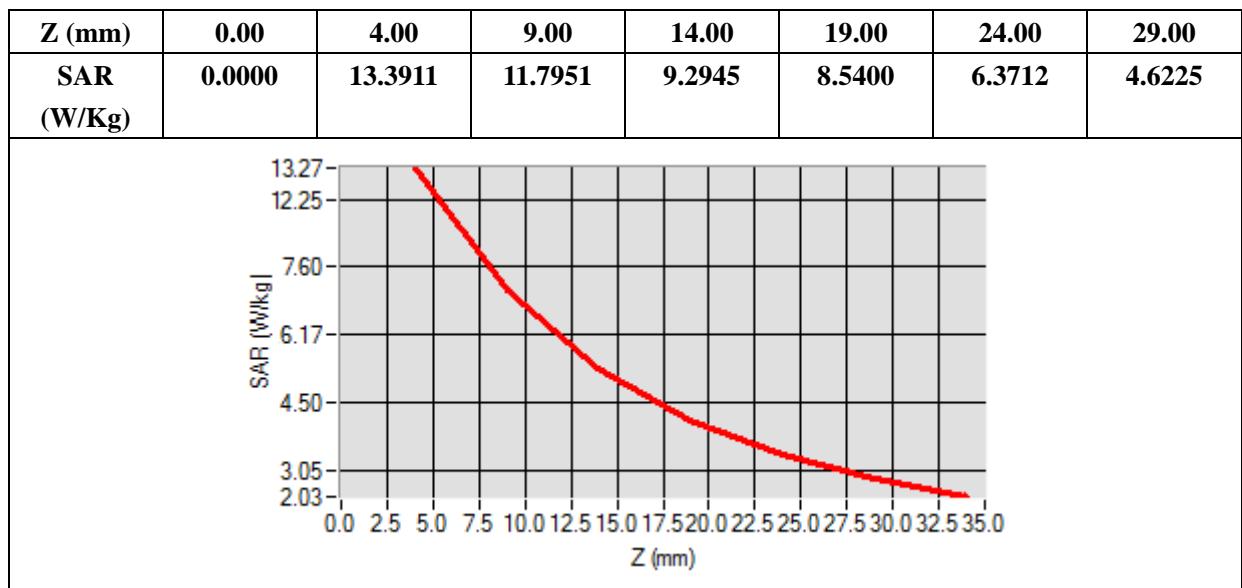
| | |
|--|-------------|
| Frequency (MHz) | 2450.000000 |
| Relative Permittivity (real part) | 52.0102121 |
| Conductivity (S/m) | 1.910255 |
| Power Variation (%) | 1.369745 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.2 |



Maximum location: X=0.00, Y=0.00

| | |
|----------------|-----------|
| SAR 10g (W/Kg) | 7.119522 |
| SAR 1g (W/Kg) | 12.592360 |

Z Axis Scan



Annex B. Plots of SAR Measurement

| <u>TYPE</u> | <u>BAND</u> | <u>PARAMETERS</u> |
|--------------------|--------------------|--|
| Phone | GSM850 | Measurement 1: Right Head with Cheek device position on Middle Channel in GSM mode |
| Phone | GSM850 | Measurement 2: Right Head with Tilt device position on Middle Channel in GSM mode |
| Phone | GSM850 | Measurement 3: Left Head with Cheek device position on Middle Channel in GSM mode |
| Phone | GSM850 | Measurement 4: Left Head with Tilt device position on Middle Channel in GSM mode |
| Phone | GSM850 | Measurement 5: Flat Plane with Back(Body-worn) device position on Middle Channel in GSM mode |
| Phone | GSM850 | Measurement 6: Flat Plane with Front(Body-worn) device position on Middle Channel in GSM mode |
| Phone | GPRS850_4TX | Measurement 7: Flat Plane with Back device position on Low Channel in GPRS mode |
| Phone | GPRS850_4TX | Measurement 8: Flat Plane with Back device position on Middle Channel in GPRS mode |
| Phone | GPRS850_4TX | Measurement 9: Flat Plane with Back device position on High Channel in GPRS mode |
| Phone | GPRS850_4TX | Measurement 10: Flat Plane with Front device position on Middle Channel in GPRS mode |
| Phone | GPRS850_4TX | Measurement 11: Flat Plane with Bottom side device position on Middle Channel in GPRS mode |
| Phone | GPRS850_4TX | Measurement 12: Flat Plane with Right side device position on Middle Channel in GPRS mode |
| Phone | GSM1900 | Measurement 13: Right Head with Cheek device position on Middle Channel in GSM mode |
| Phone | GSM1900 | Measurement 14: Right Head with Tilt device position on Middle Channel in GSM mode |
| Phone | GSM1900 | Measurement 15: Left Head with Cheek device position on Middle Channel in GSM mode |
| Phone | GSM1900 | Measurement 16: Left Head with Tilt device position on Middle Channel in GSM mode |
| Phone | GSM1900 | Measurement 17: Flat Plane with Back(Body-worn) device position on Middle Channel in GSM mode |
| Phone | GSM1900 | Measurement 18: Flat Plane with Front(Body-worn) device position on Middle Channel in GSM mode |
| Phone | GPRS1900_4TX | Measurement 19: Flat Plane with Back device position on High Channel in GPRS mode |

| | | |
|--------------|----------------------|---|
| Phone | GPRS1900_4TX | Measurement 20: Flat Plane with Front device position on High Channel in GPRS mode |
| Phone | GPRS1900_4TX | Measurement 21: Flat Plane with Bottom side device position on Low Channel in GPRS mode |
| Phone | GPRS1900_4TX | Measurement 22: Flat Plane with Bottom side device position on Middle Channel in GPRS mode |
| Phone | GPRS1900_4TX | Measurement 23: Flat Plane with Bottom side device position on High Channel in GPRS mode |
| Phone | GPRS1900_4TX | Measurement 24: Flat Plane with Right side device position on High Channel in GPRS mode |
| Phone | WCDMA1900_RMC | Measurement 25: Right Head with Cheek device position on High Channel in WCDMA mode |
| Phone | WCDMA1900_RMC | Measurement 26: Right Head with Tilt device position on High Channel in WCDMA mode |
| Phone | WCDMA1900_RMC | Measurement 27: Left Head with Cheek device position on High Channel in WCDMA mode |
| Phone | WCDMA1900_RMC | Measurement 28: Left Head with Tilt device position on High Channel in WCDMA mode |
| Phone | WCDMA1900_RMC | Measurement 29: Flat Plane with Back device position on High Channel in WCDMA mode |
| Phone | WCDMA1900_RMC | Measurement 30: Flat Plane with Front device position on High Channel in WCDMA mode |
| Phone | WCDMA1900_RMC | Measurement 31: Flat Plane with Bottom side device position on Low Channel in WCDMA mode |
| Phone | WCDMA1900_RMC | Measurement 32: Flat Plane with Bottom side device position on Middle Channel in WCDMA mode |
| Phone | WCDMA1900_RMC | Measurement 33: Flat Plane with Bottom side device position on High Channel in WCDMA mode |
| Phone | WCDMA1900_RMC | Measurement 34: Flat Plane with Right side device position on High Channel in WCDMA mode |
| Phone | WCDMA850_RMC | Measurement 35: Right Head with Cheek device position on Middle Channel in WCDMA mode |
| Phone | WCDMA850_RMC | Measurement 36: Right Head with Tilt device position on Middle Channel in WCDMA mode |
| Phone | WCDMA850_RMC | Measurement 37: Left Head with Cheek device position on Middle Channel in WCDMA mode |
| Phone | WCDMA850_RMC | Measurement 38: Left Head with Tilt device position on Middle Channel in WCDMA mode |
| Phone | WCDMA850_RMC | Measurement 39: Flat Plane with Back device position on Middle Channel in WCDMA mode |
| Phone | WCDMA850_RMC | Measurement 40: Flat Plane with Front device position on Middle Channel in WCDMA mode |
| Phone | WCDMA850_RMC | Measurement 41: Flat Plane with Bottom side device |

| | | |
|-------|-----------------------|--|
| | | position on Middle Channel in WCDMA mode |
| Phone | WCDMA850_RMC | <u>Measurement 42:</u> Flat Plane with Right side device position on Middle Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 43:</u> Right Head with Cheek device position on Low Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 44:</u> Right Head with Tilt device position on Low Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 45:</u> Left Head with Cheek device position on Low Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 46:</u> Left Head with Tilt device position on Low Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 47:</u> Flat Plane with Back device position on Low Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 48:</u> Flat Plane with Front device position on Low Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 49:</u> Flat Plane with Front device position on Middle Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 50:</u> Flat Plane with Front device position on High Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 51:</u> Flat Plane with Bottom side device position on Low Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 52:</u> Flat Plane with Bottom side device position on Middle Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 53:</u> Flat Plane with Bottom side device position on High Channel in WCDMA mode |
| Phone | WCDMA1700_RMC | <u>Measurement 54:</u> Flat Plane with Right side device position on Low Channel in WCDMA mode |
| Phone | LTE Band 2_RMC | <u>Measurement 55:</u> Right Head with Cheek device position on Middle Channel in LTE mode |
| Phone | LTE Band 2_RMC | <u>Measurement 56:</u> Right Head with Tilt device position on Middle Channel in LTE mode |
| Phone | LTE Band 2_RMC | <u>Measurement 57:</u> Left Head with Cheek device position on Middle Channel in LTE mode |
| Phone | LTE Band 2_RMC | <u>Measurement 58:</u> Left Head with Tilt device position on Middle Channel in LTE mode |
| Phone | LTE Band 2_RMC | <u>Measurement 59:</u> Flat Plane with Back device position on Middle Channel in LTE mode |
| Phone | LTE Band 2_RMC | <u>Measurement 60:</u> Flat Plane with Front device position on Middle Channel in LTE mode |
| Phone | LTE Band 2_RMC | <u>Measurement 61:</u> Flat Plane with Bottom side device position on Middle Channel in LTE mode |
| Phone | LTE Band 2_RMC | <u>Measurement 62:</u> Flat Plane with Right side device position on Middle Channel in LTE mode |
| Phone | LTE Band 4_RMC | <u>Measurement 63:</u> Right Head with Cheek device |

| | | |
|-------|-----------------------|--|
| | | position on Low Channel in LTE mode |
| Phone | LTE Band 4_RMC | <u>Measurement 64:</u> Right Head with Tilt device position on Low Channel in LTE mode |
| Phone | LTE Band 4_RMC | <u>Measurement 65:</u> Left Head with Cheek device position on Low Channel in LTE mode |
| Phone | LTE Band 4_RMC | <u>Measurement 66:</u> Left Head with Tilt device position on Low Channel in LTE mode |
| Phone | LTE Band 4_RMC | <u>Measurement 67:</u> Flat Plane with Back device position on Low Channel in LTE mode |
| Phone | LTE Band 4_RMC | <u>Measurement 68:</u> Flat Plane with Front device position on Low Channel in LTE mode |
| Phone | LTE Band 4_RMC | <u>Measurement 69:</u> Flat Plane with Bottom side device position on Low Channel in LTE mode |
| Phone | LTE Band 4_RMC | <u>Measurement 70:</u> Flat Plane with Bottom side device position on Middle Channel in LTE mode |
| Phone | LTE Band 4_RMC | <u>Measurement 71:</u> Flat Plane with Bottom side device position on High Channel in LTE mode |
| Phone | LTE Band 4_RMC | <u>Measurement 72:</u> Flat Plane with Right side device position on Low Channel in LTE mode |
| Phone | LTE Band 5_RMC | <u>Measurement 73:</u> Right Head with Cheek device position on High Channel in LTE mode |
| Phone | LTE Band 5_RMC | <u>Measurement 74:</u> Right Head with Tilt device position on High Channel in LTE mode |
| Phone | LTE Band 5_RMC | <u>Measurement 75:</u> Left Head with Cheek device position on High Channel in LTE mode |
| Phone | LTE Band 5_RMC | <u>Measurement 76:</u> Left Head with Tilt device position on High Channel in LTE mode |
| Phone | LTE Band 5_RMC | <u>Measurement 77:</u> Flat Plane with Back device position on High Channel in LTE mode |
| Phone | LTE Band 5_RMC | <u>Measurement 78:</u> Flat Plane with Front device position on High Channel in LTE mode |
| Phone | LTE Band 5_RMC | <u>Measurement 79:</u> Flat Plane with Bottom side device position on High Channel in LTE mode |
| Phone | LTE Band 5_RMC | <u>Measurement 80:</u> Flat Plane with Right side device position on High Channel in LTE mode |
| Phone | WiFi_802.11b | <u>Measurement 81:</u> Right Head with Cheek device position on Low Channel in 802.11b mode |
| Phone | WiFi_802.11b | <u>Measurement 82:</u> Right Head with Tilt device position on Low Channel in 802.11b mode |
| Phone | WiFi_802.11b | <u>Measurement 83:</u> Left Head with Cheek device position on Low Channel in 802.11b mode |
| Phone | WiFi_802.11b | <u>Measurement 84:</u> Left Head with Tilt device position on Low Channel in 802.11b mode |
| Phone | WiFi_802.11b | <u>Measurement 85:</u> Flat Plane with Back side device |

| | | |
|--------------|---------------------|--|
| | | position on Low Channel in 802.11b mode |
| Phone | WiFi_802.11b | <u>Measurement 86:</u> Flat Plane with Front side device position on Low Channel in 802.11b mode |
| Phone | WiFi_802.11b | <u>Measurement 87:</u> Flat Plane with Top side device position on Low Channel in 802.11b mode |
| Phone | WiFi_802.11b | <u>Measurement 88</u> Flat Plane with Right side device position on Low Channel in 802.11b mode |

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

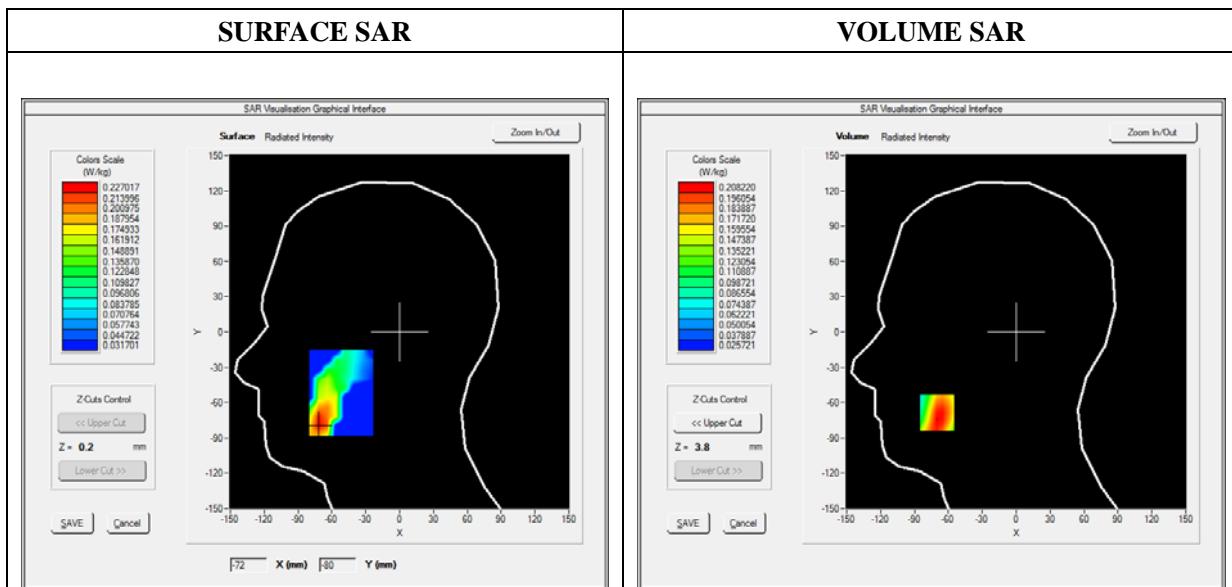
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

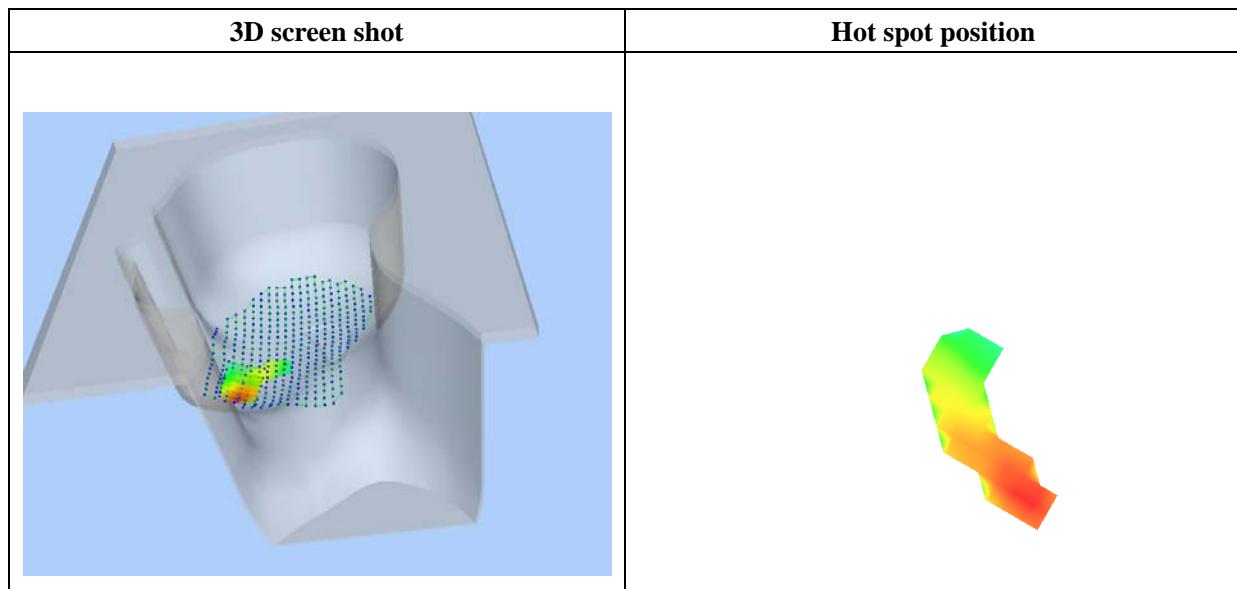
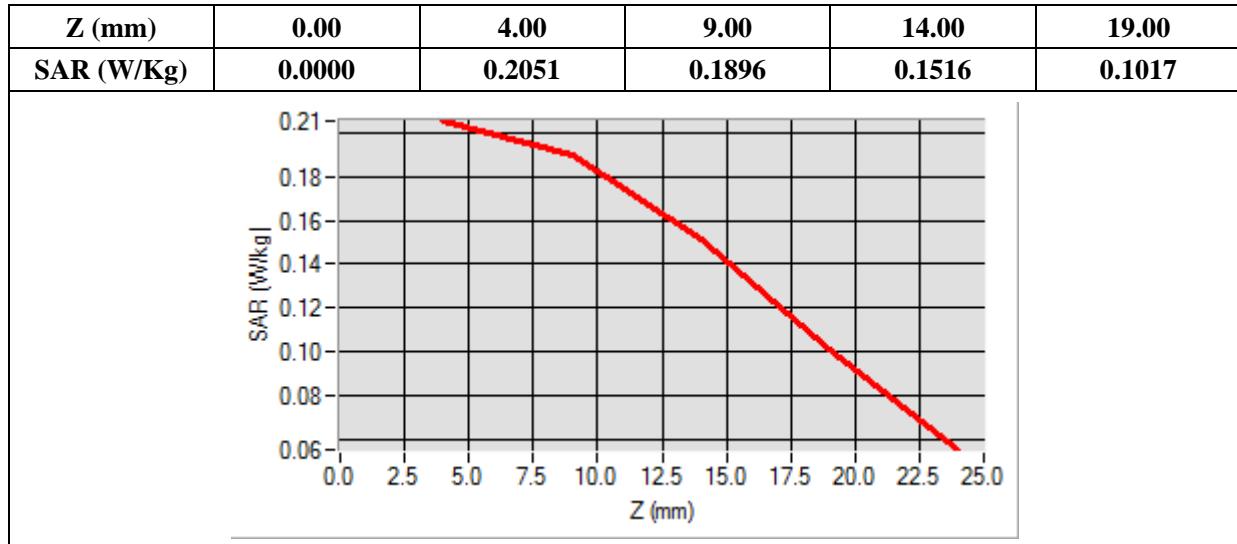
B. SAR Measurement Results

| | |
|--|------------|
| 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=-70.00, Y=-69.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.161853 |
| SAR 1g (W/Kg) | 0.203255 |



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

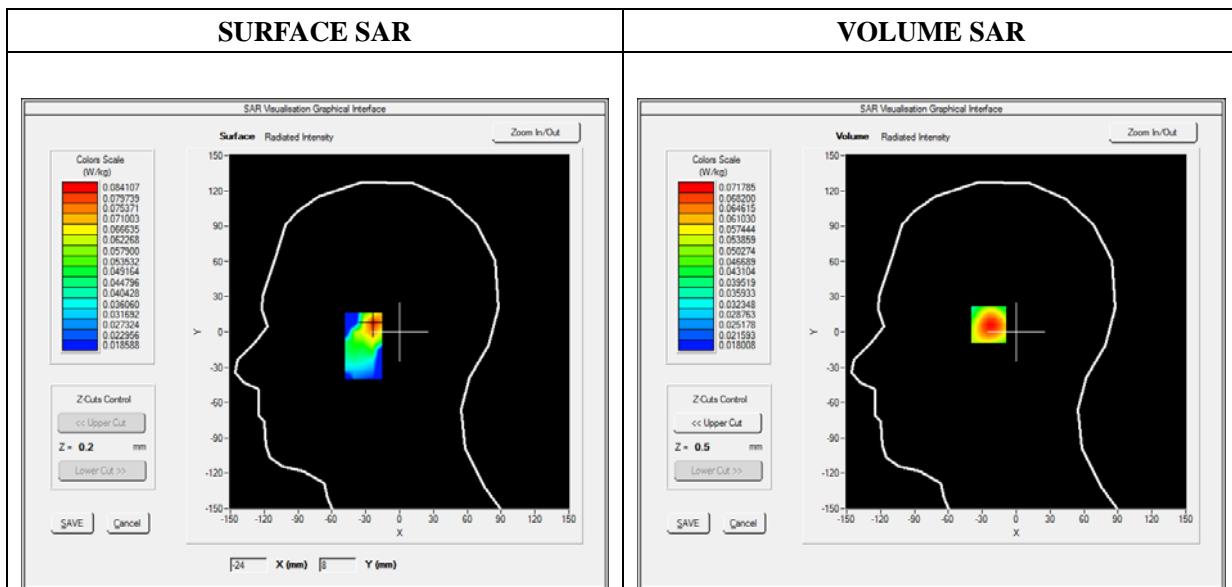
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

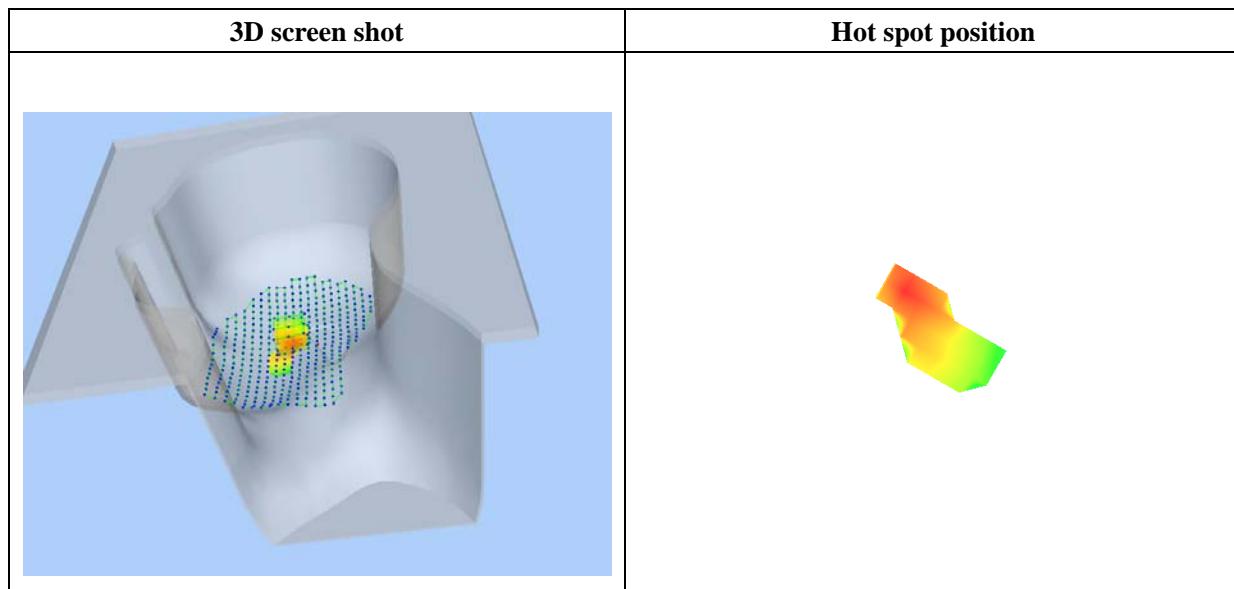
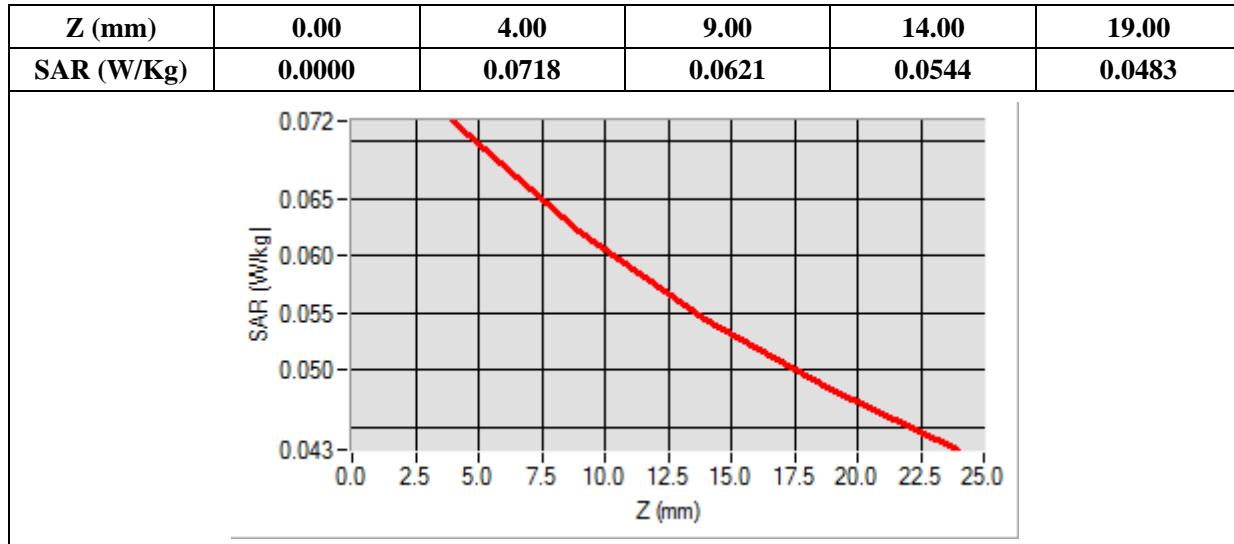
B. SAR Measurement Results

| | |
|--|------------|
| 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=-23.00, Y=7.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.058390 |
| SAR 1g (W/Kg) | 0.069490 |



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 11 minutes 48 seconds

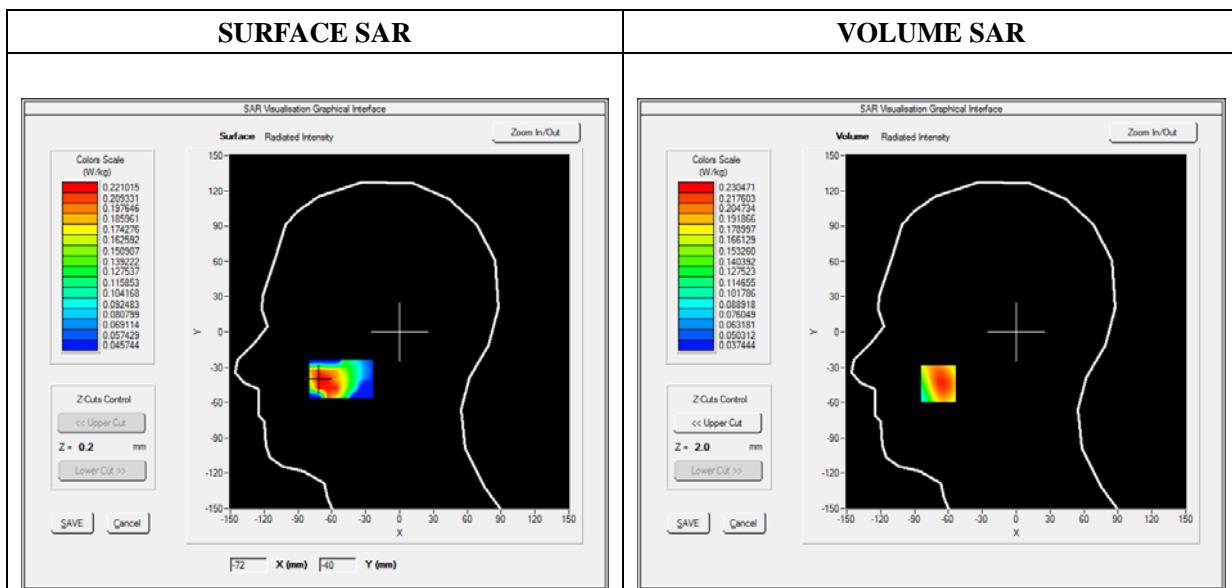
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

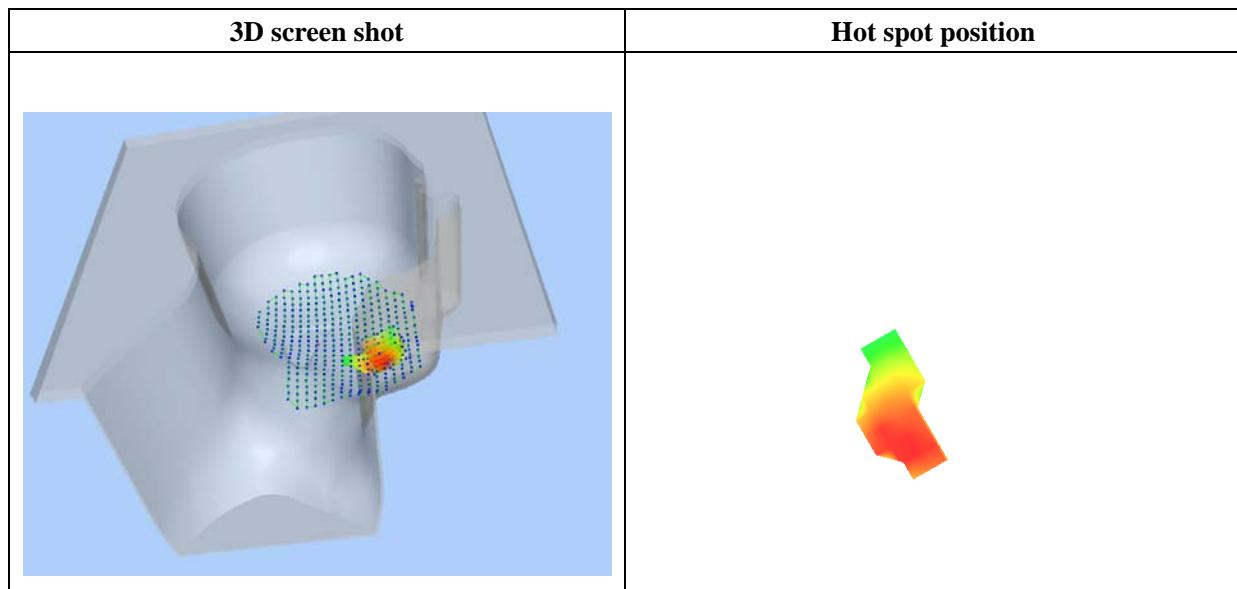
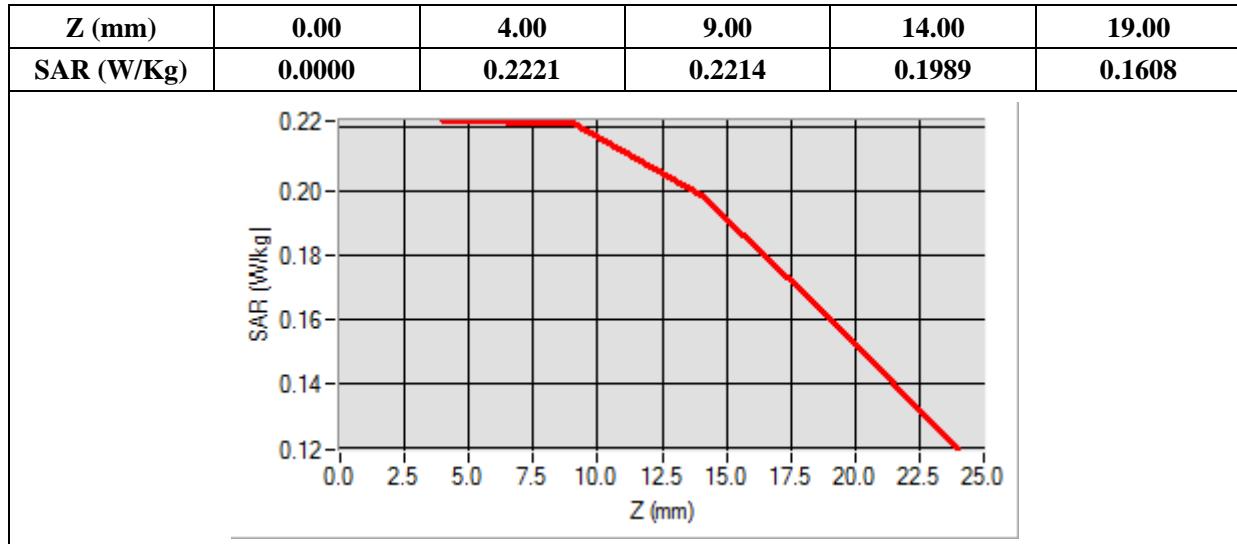
B. SAR Measurement Results

| | |
|--|------------|
| 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=-69.00, Y=-44.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.196612 |
| SAR 1g (W/Kg) | 0.220995 |



MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

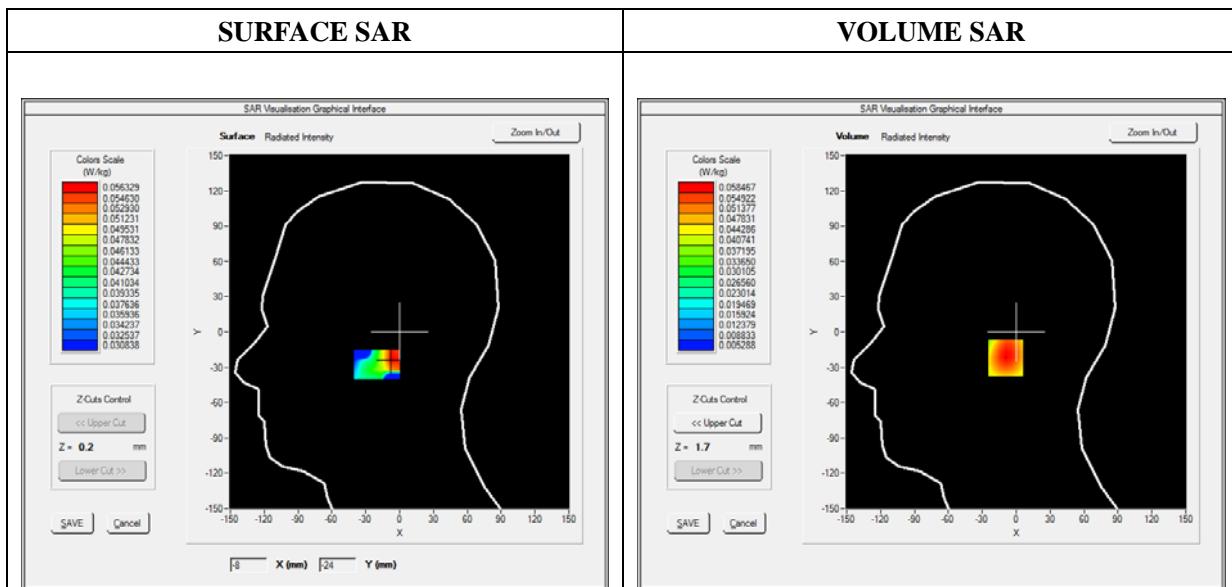
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

A. Experimental conditions

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

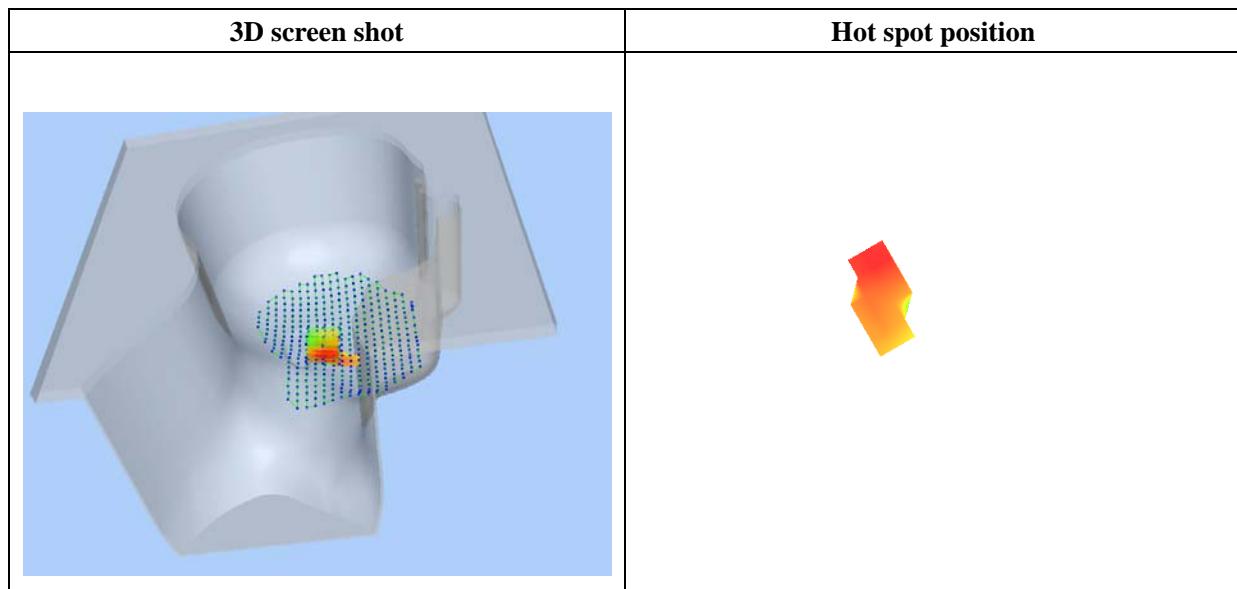
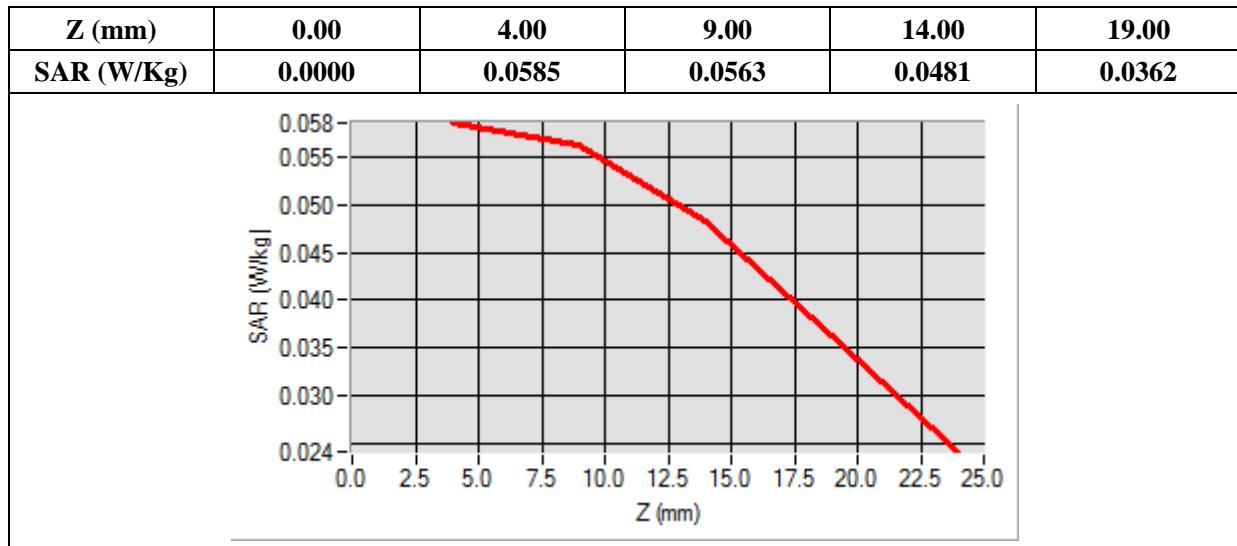
B. SAR Measurement Results

| | |
|--|------------|
| Frequency (MHz) | 836.600000 |
| 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=-6.00, Y=-22.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.048234 |
| SAR 1g (W/Kg) | 0.057162 |



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

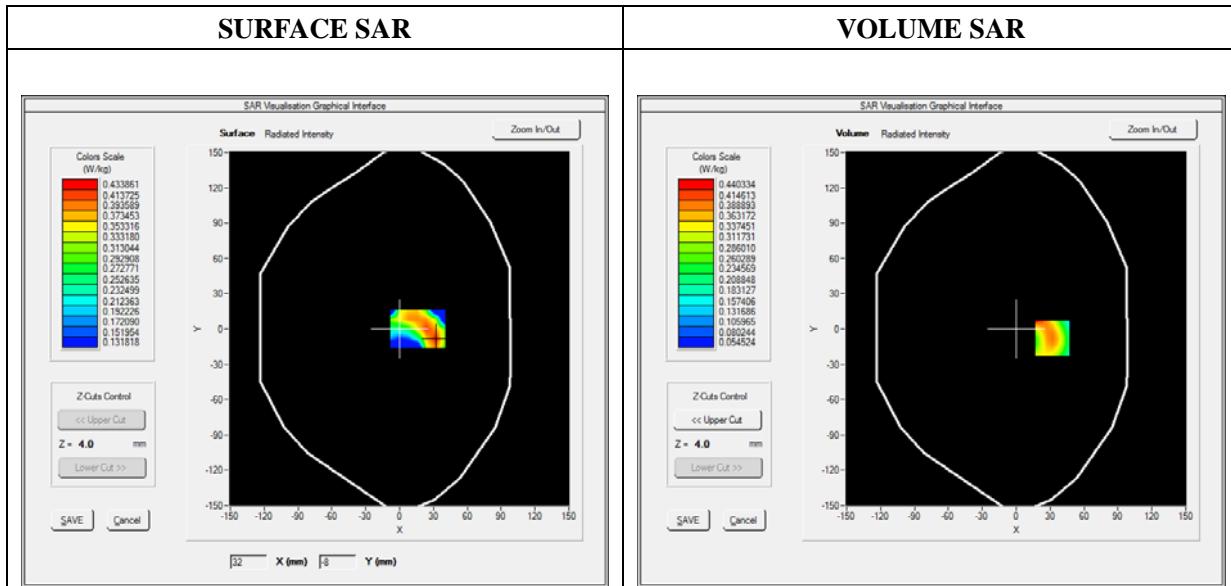
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

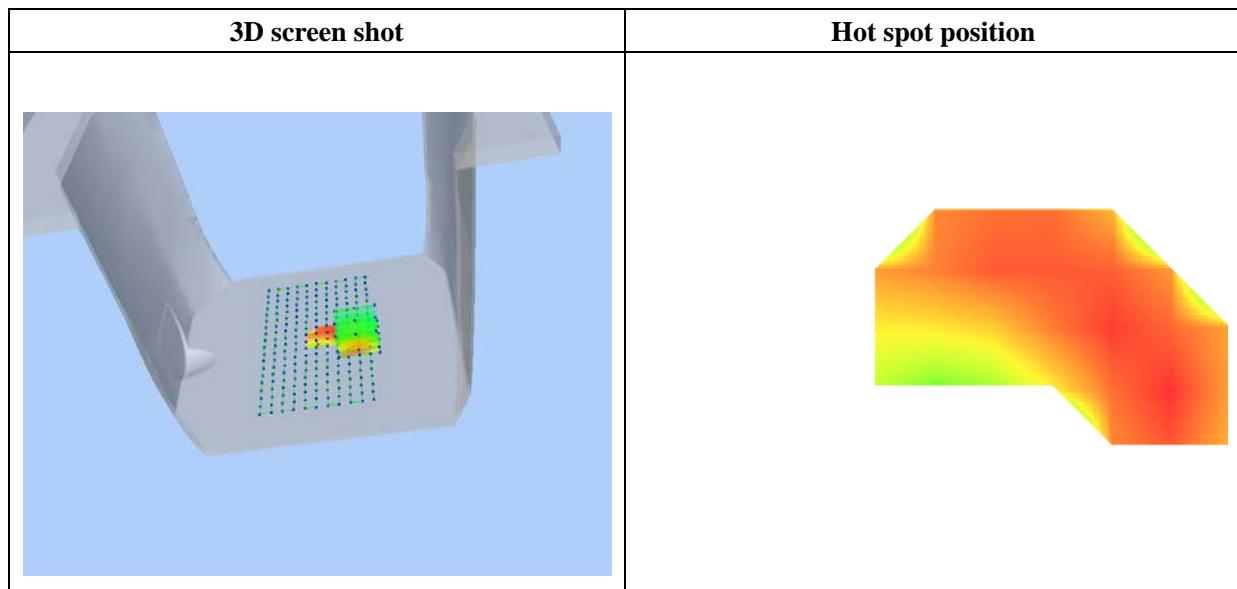
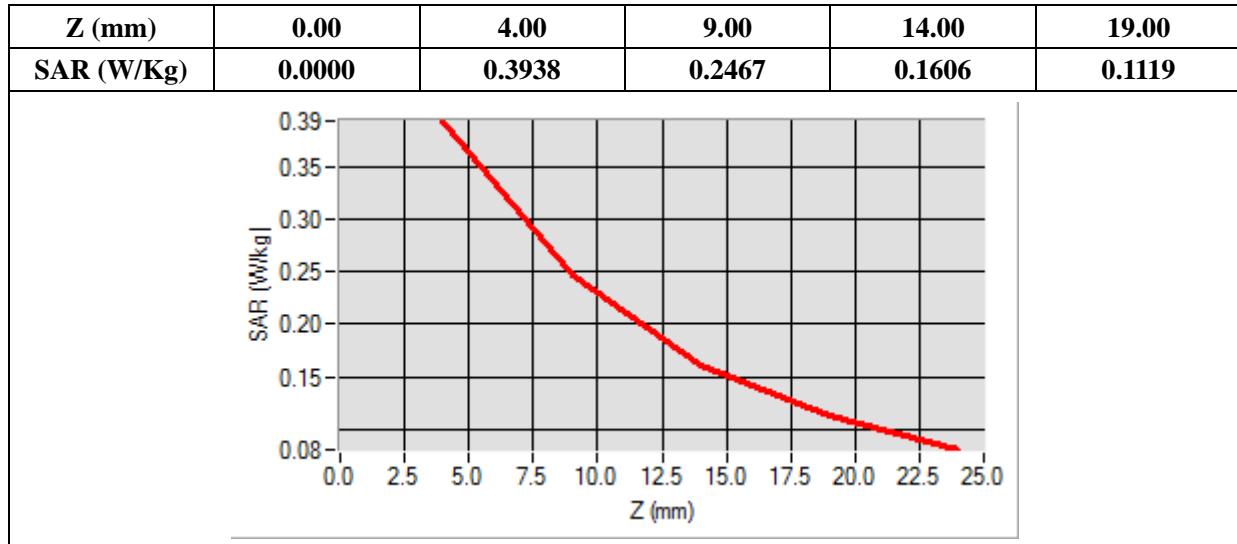
B. SAR Measurement Results

| | |
|--|------------|
| 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=32.00, Y=-8.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.279648 |
| SAR 1g (W/Kg) | 0.440518 |



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

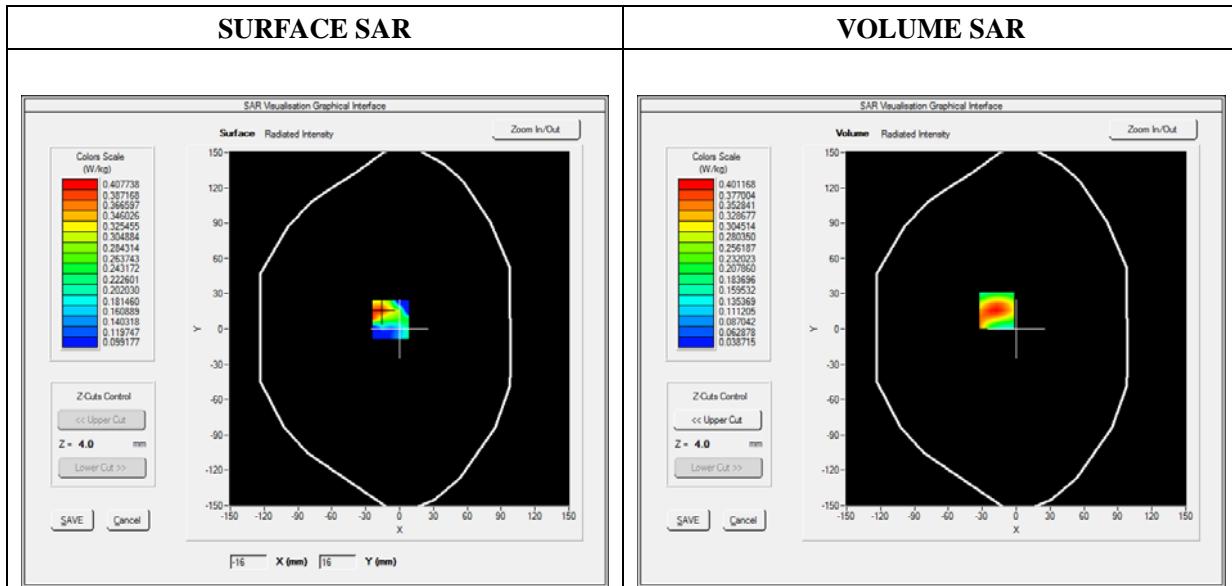
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

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

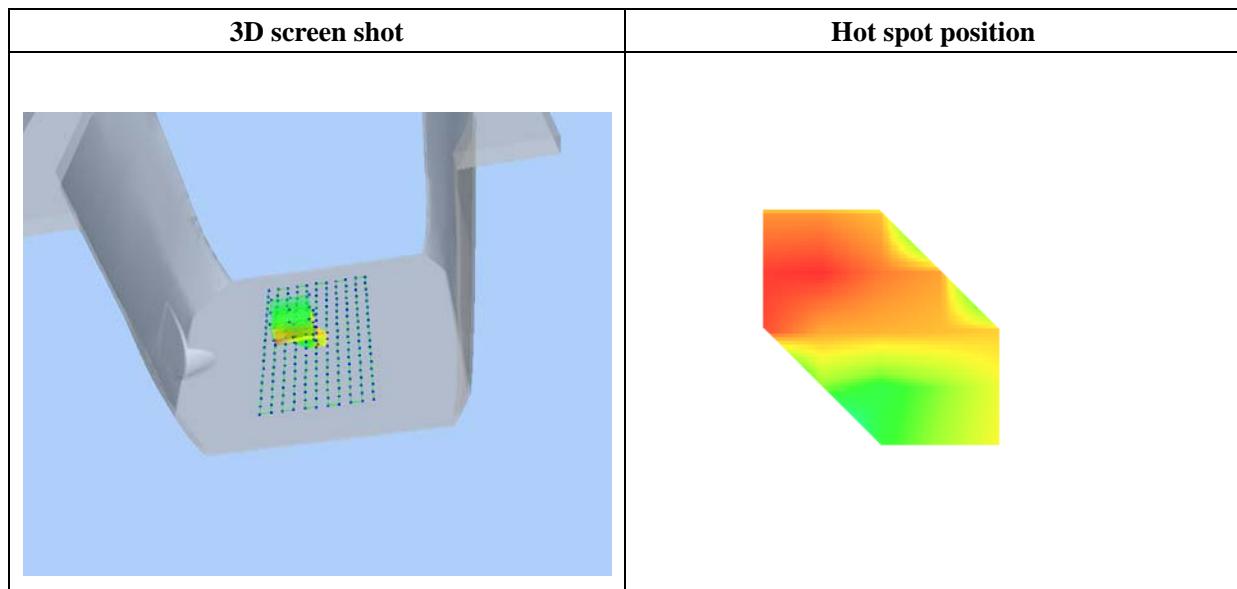
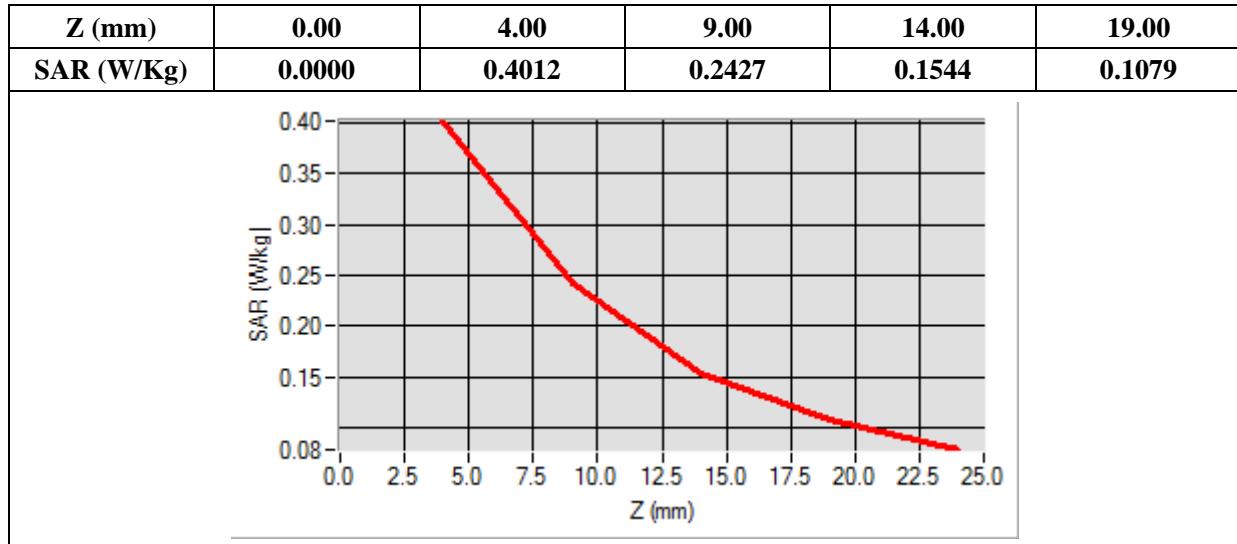
B. SAR Measurement Results

| | |
|--|------------|
| 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=-17.00, Y=16.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.266363 |
| SAR 1g (W/Kg) | 0.443341 |



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

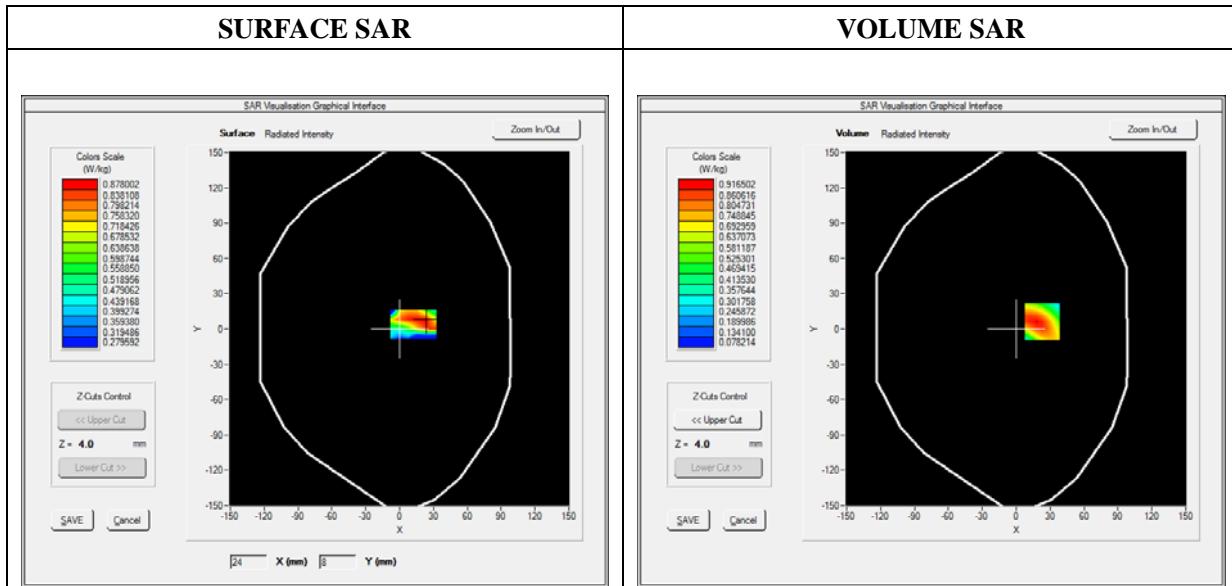
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Back |
| Band | GPRS850_4TX |
| Channels | Low |
| Signal | Duty Cycle: 1:2 |

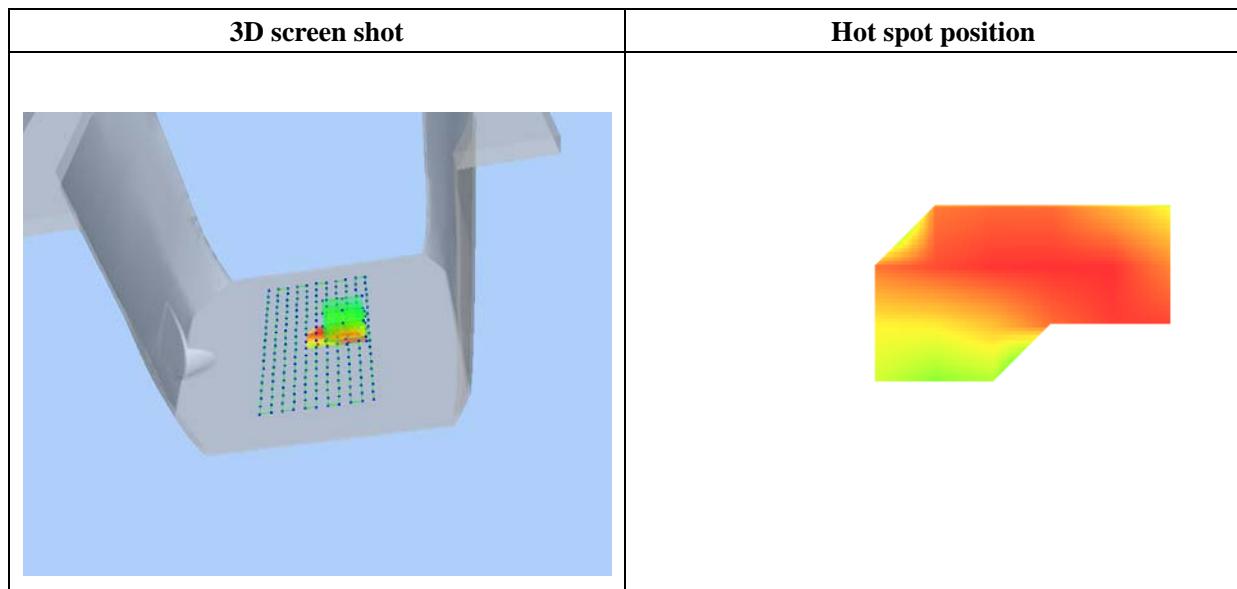
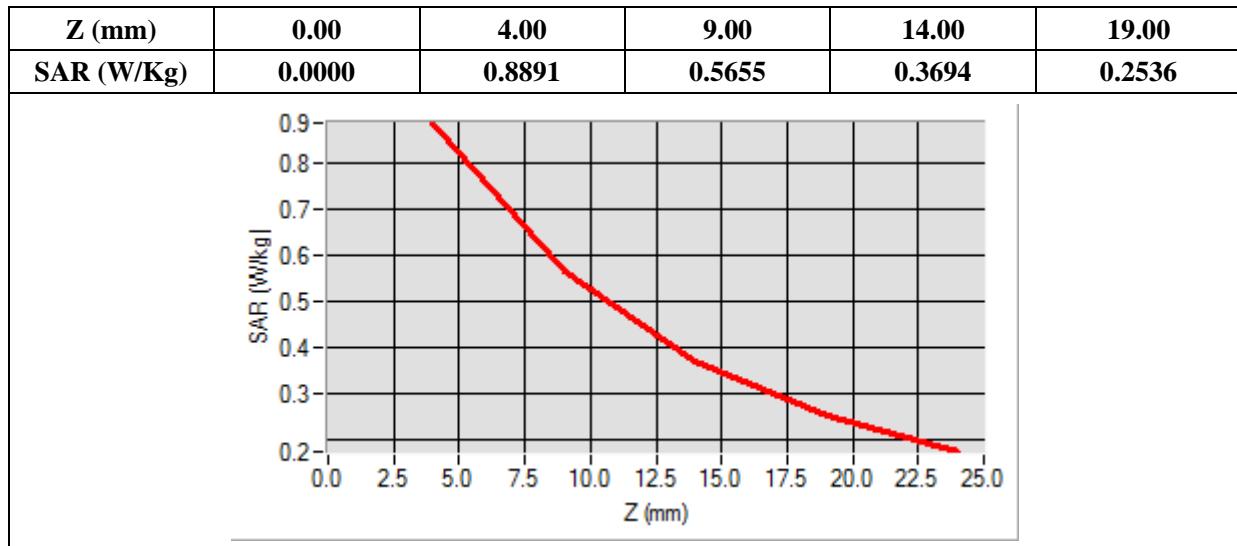
B. SAR Measurement Results

| | |
|--|------------|
| Frequency (MHz) | 824.200012 |
| Relative Permittivity (real part) | 54.851214 |
| Conductivity (S/m) | 0.951454 |
| Power Variation (%) | 0.901472 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=23.00, Y=6.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.530828 |
| SAR 1g (W/Kg) | 0.858689 |



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

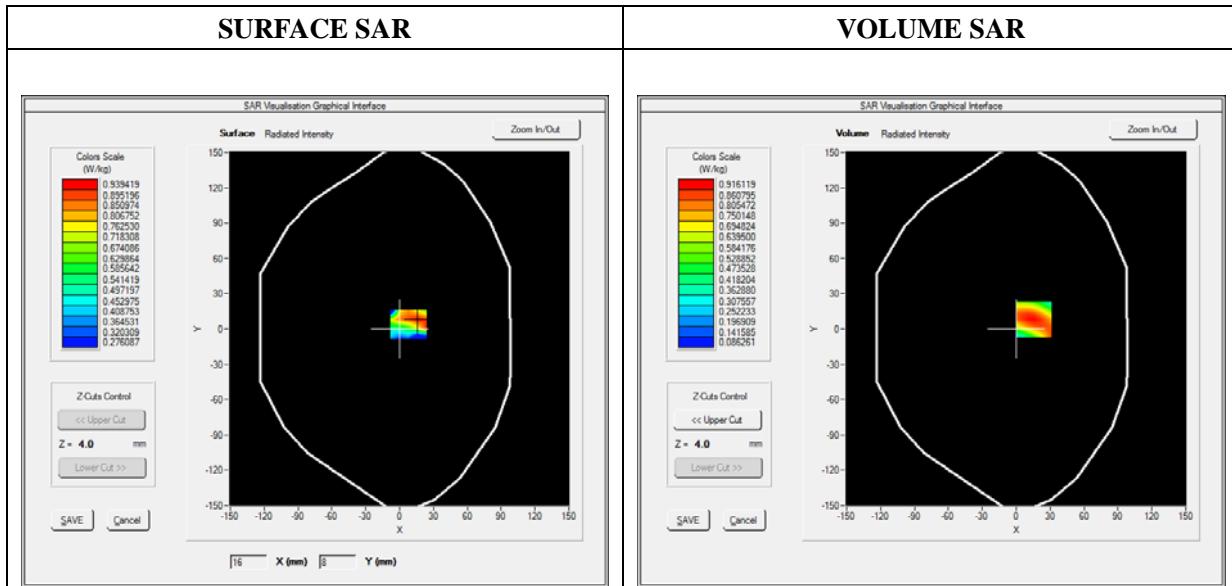
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Back |
| Band | GPRS850_4TX |
| Channels | Middle |
| Signal | Duty Cycle: 1:2 |

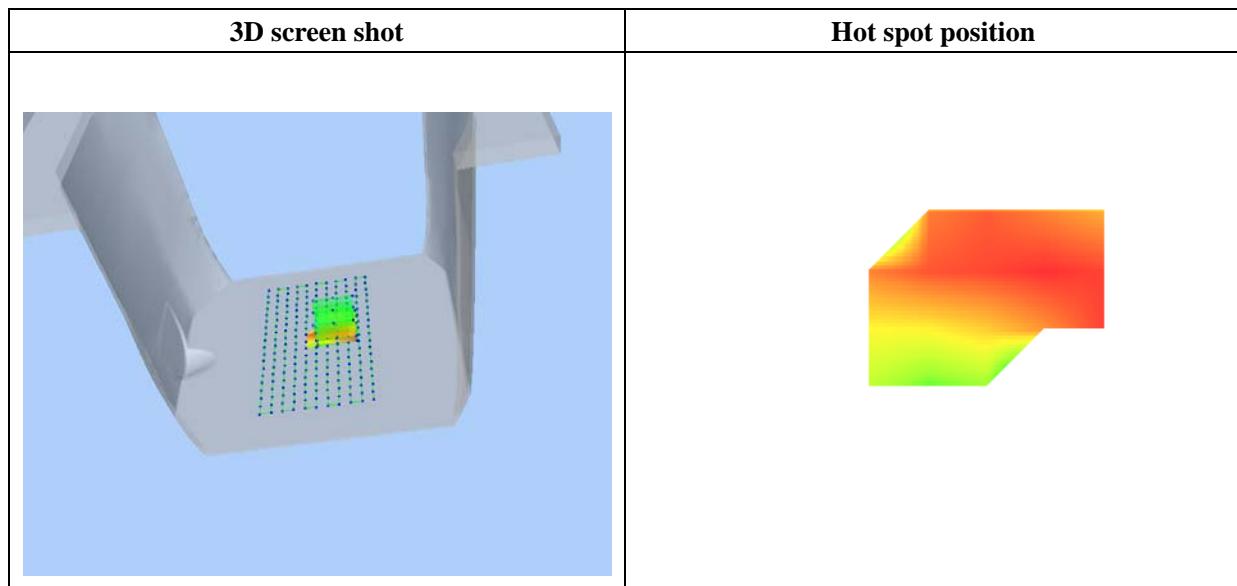
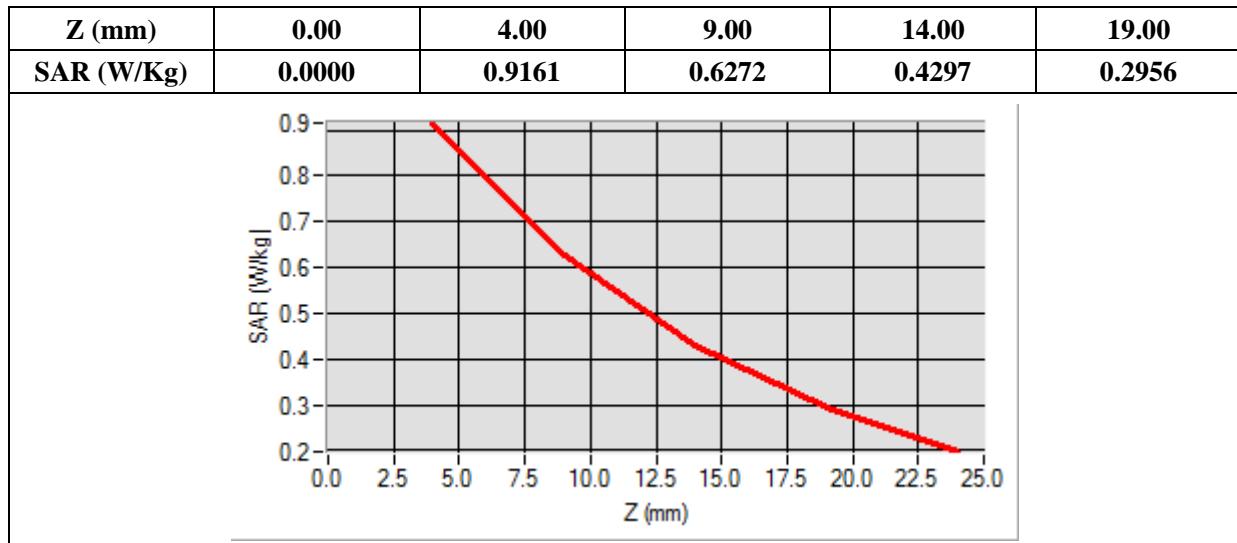
B. SAR Measurement Results

| | |
|--|------------|
| Frequency (MHz) | 836.600000 |
| Relative Permittivity (real part) | 54.851214 |
| Conductivity (S/m) | 0.951454 |
| Power Variation (%) | 0.643748 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=16.00, Y=8.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.549447 |
| SAR 1g (W/Kg) | 0.861185 |



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

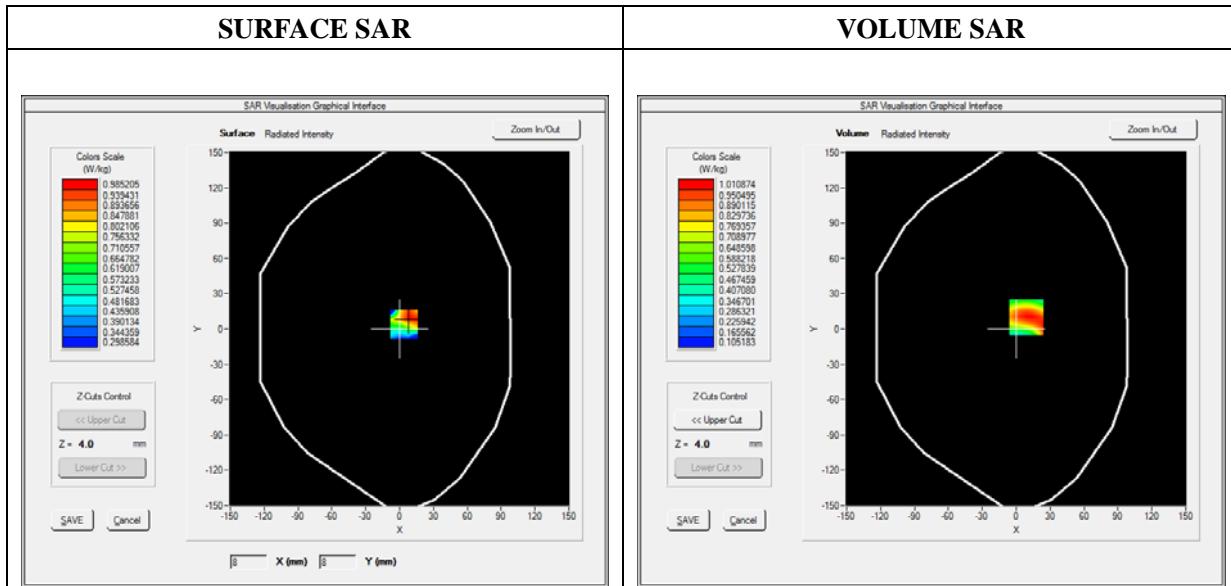
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Back |
| Band | GPRS850_4TX |
| Channels | High |
| Signal | Duty Cycle: 1:2 |

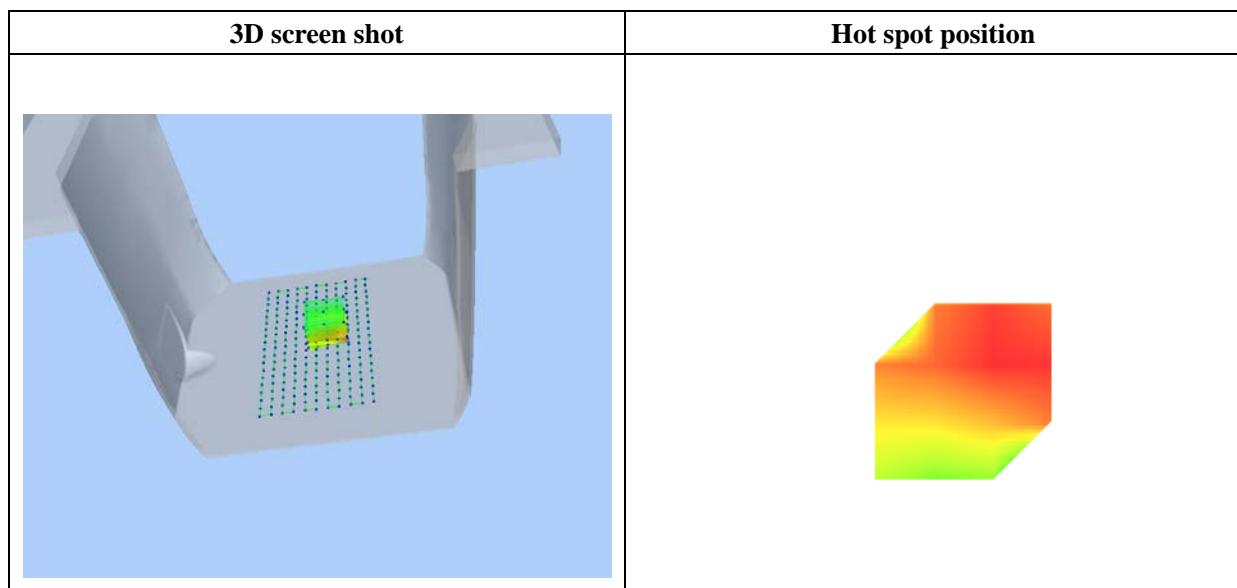
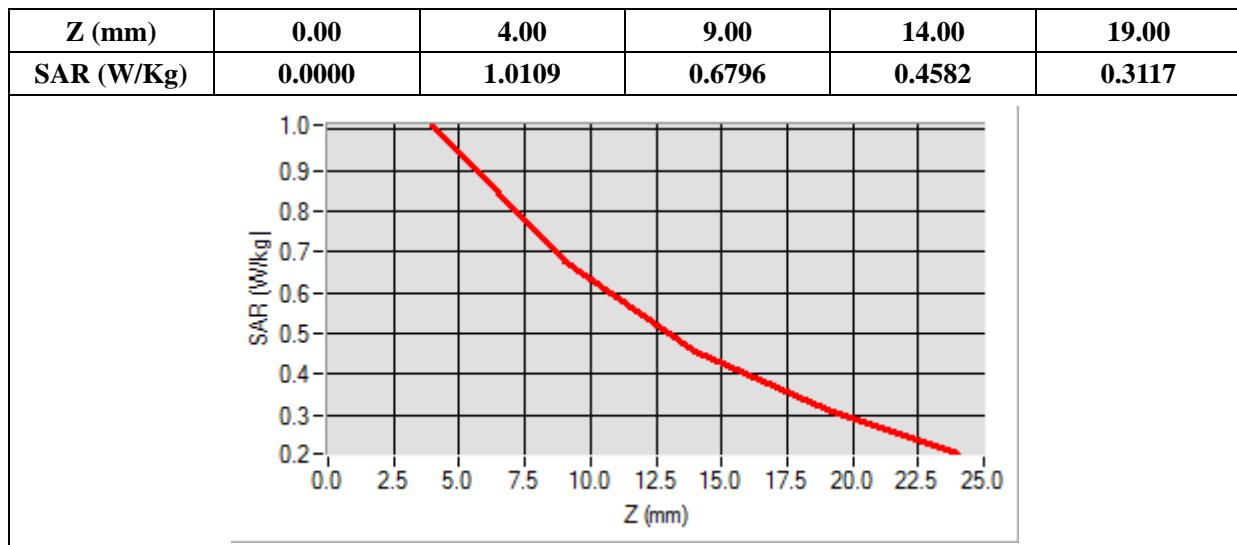
B. SAR Measurement Results

| | |
|--|------------|
| Frequency (MHz) | 848.799988 |
| Relative Permittivity (real part) | 54.851214 |
| Conductivity (S/m) | 0.951454 |
| Power Variation (%) | 0.894569 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=9.00, Y=10.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.597060 |
| SAR 1g (W/Kg) | 0.944021 |



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

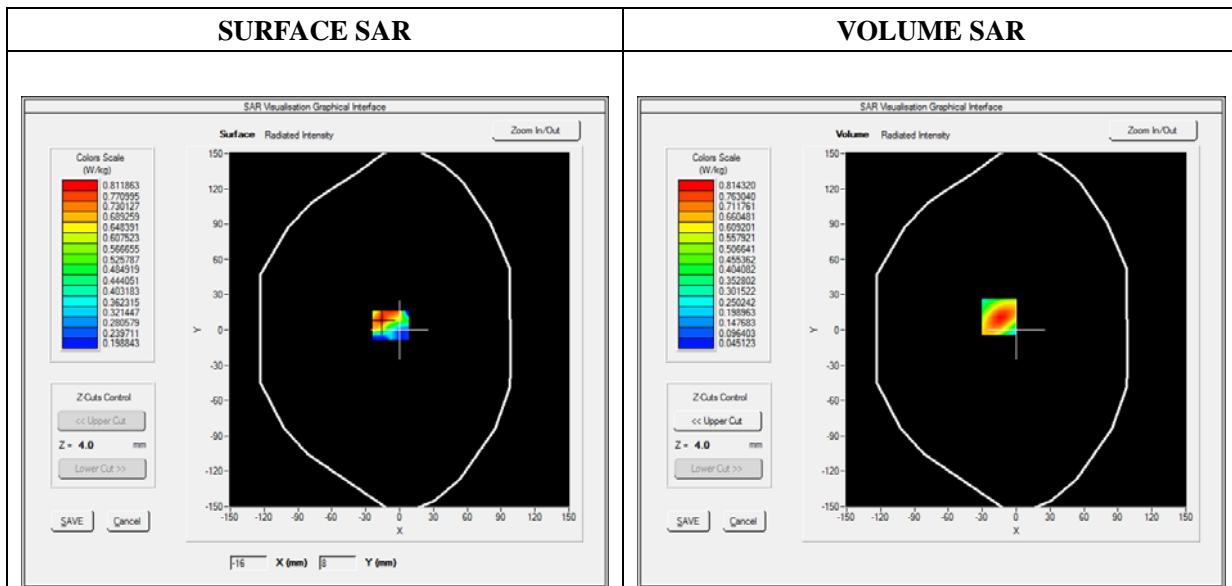
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Front |
| Band | GPRS850_4TX |
| Channels | Middle |
| Signal | Duty Cycle: 1:2 |

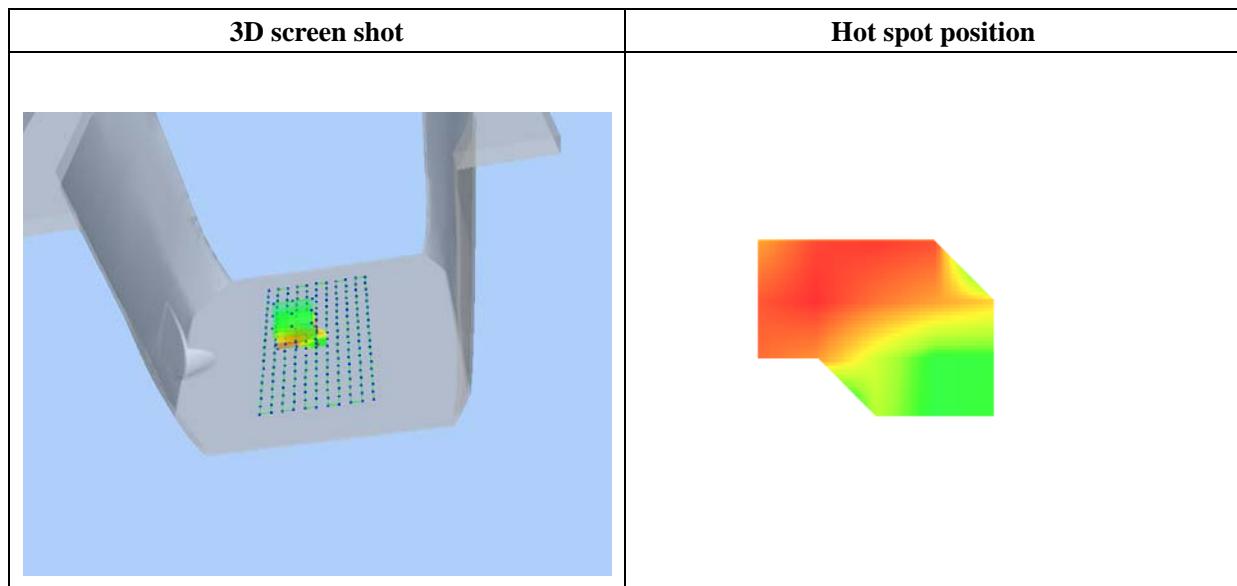
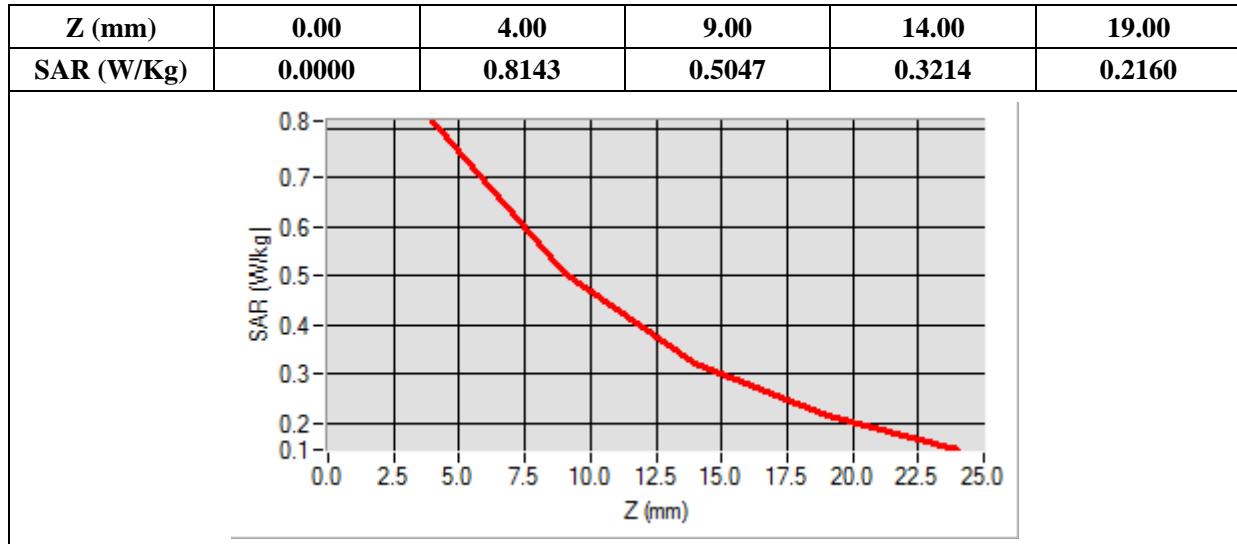
B. SAR Measurement Results

| | |
|--|-------------|
| 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=-15.00, Y=11.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.460693 |
| SAR 1g (W/Kg) | 0.760442 |



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

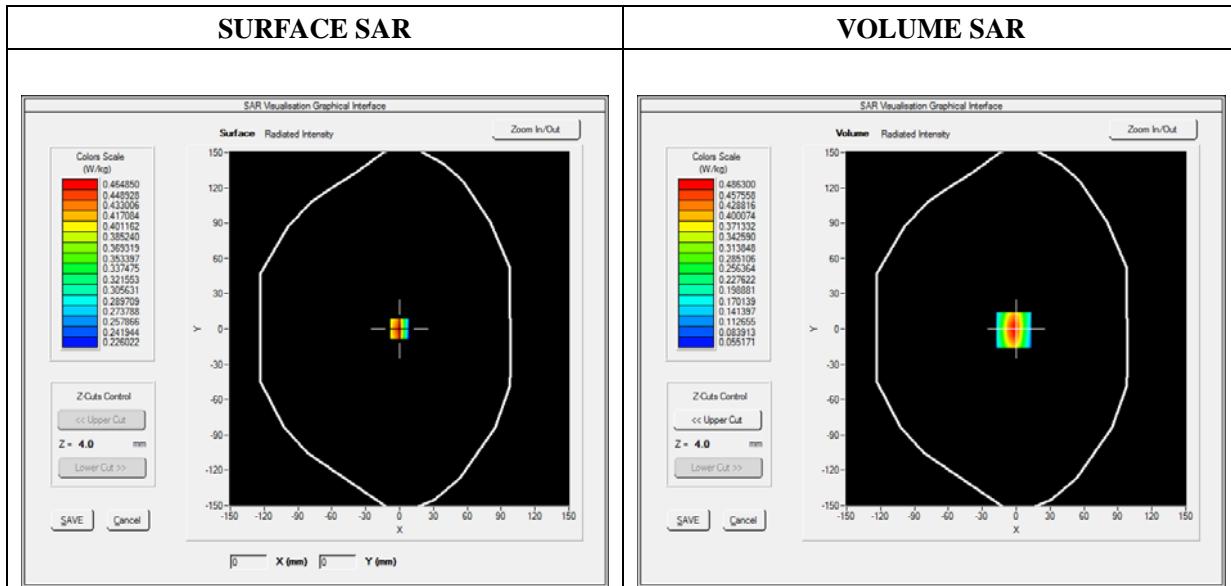
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Bottom |
| Band | GPRS850_4TX |
| Channels | Middle |
| Signal | Duty Cycle: 1:2 |

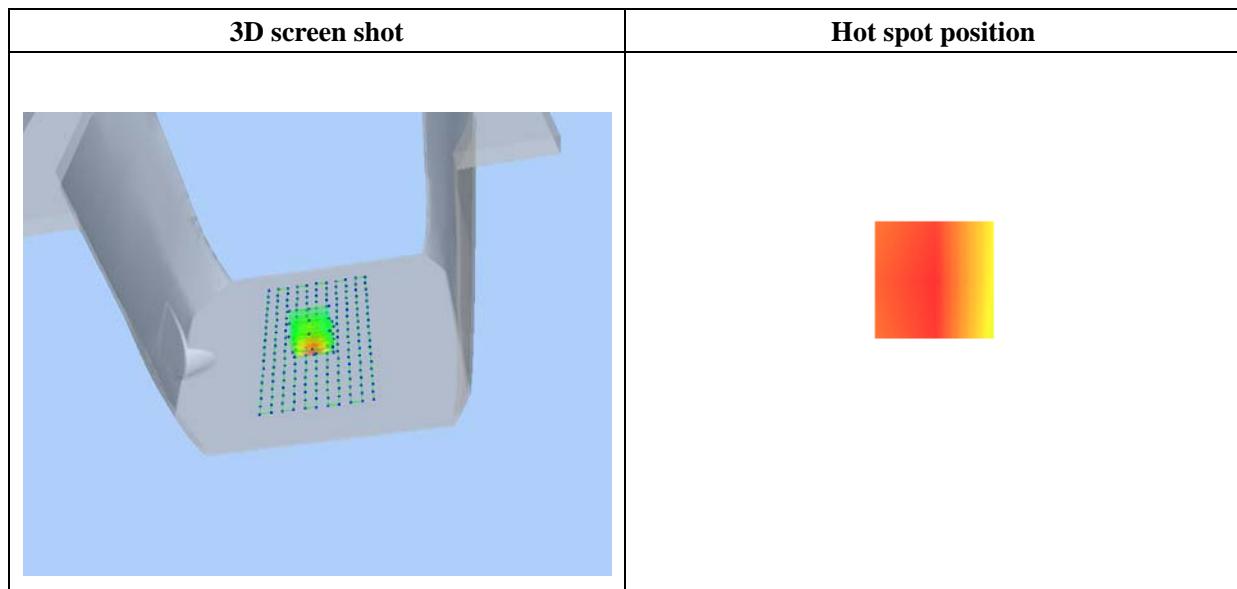
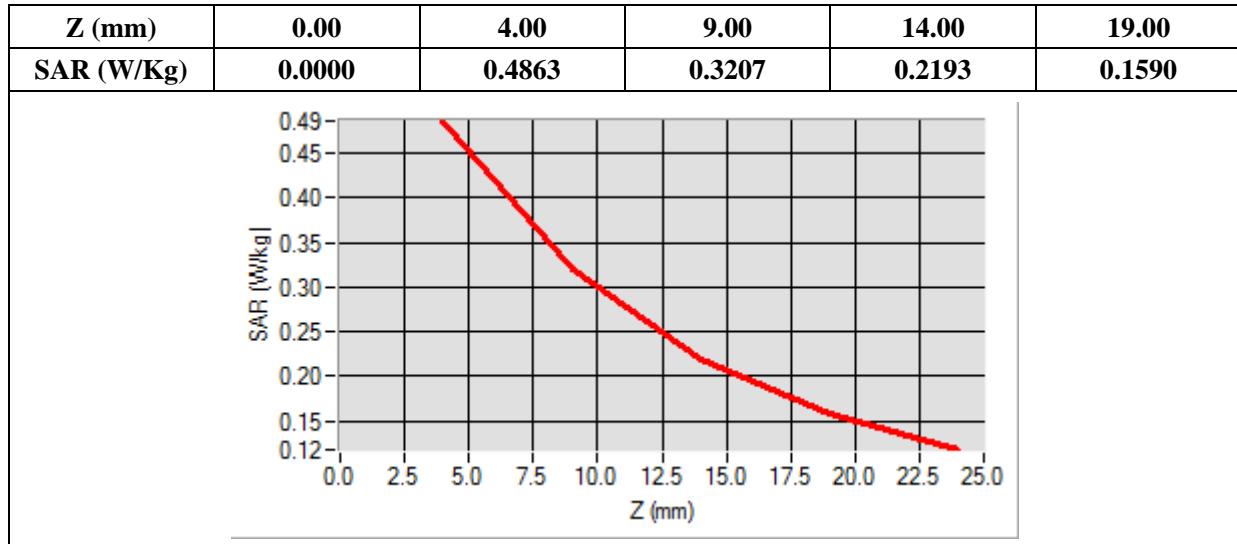
B. SAR Measurement Results

| | |
|--|-------------|
| 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=-2.00, Y=-1.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.265885 |
| SAR 1g (W/Kg) | 0.441334 |



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

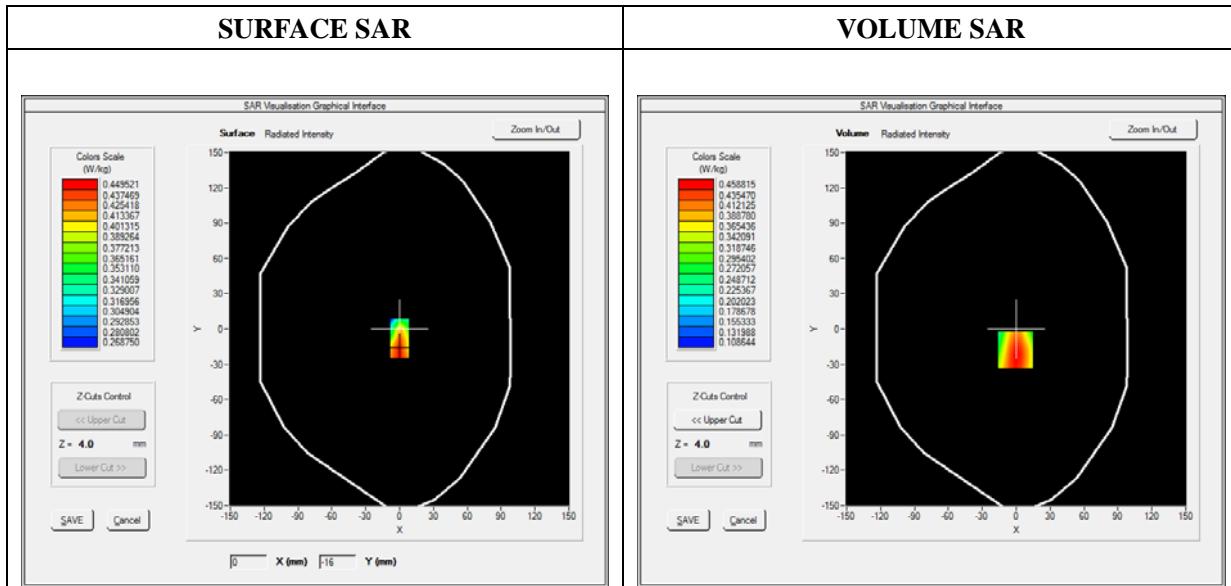
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Right side |
| Band | GPRS850_4TX |
| Channels | Middle |
| Signal | Duty Cycle: 1:2 |

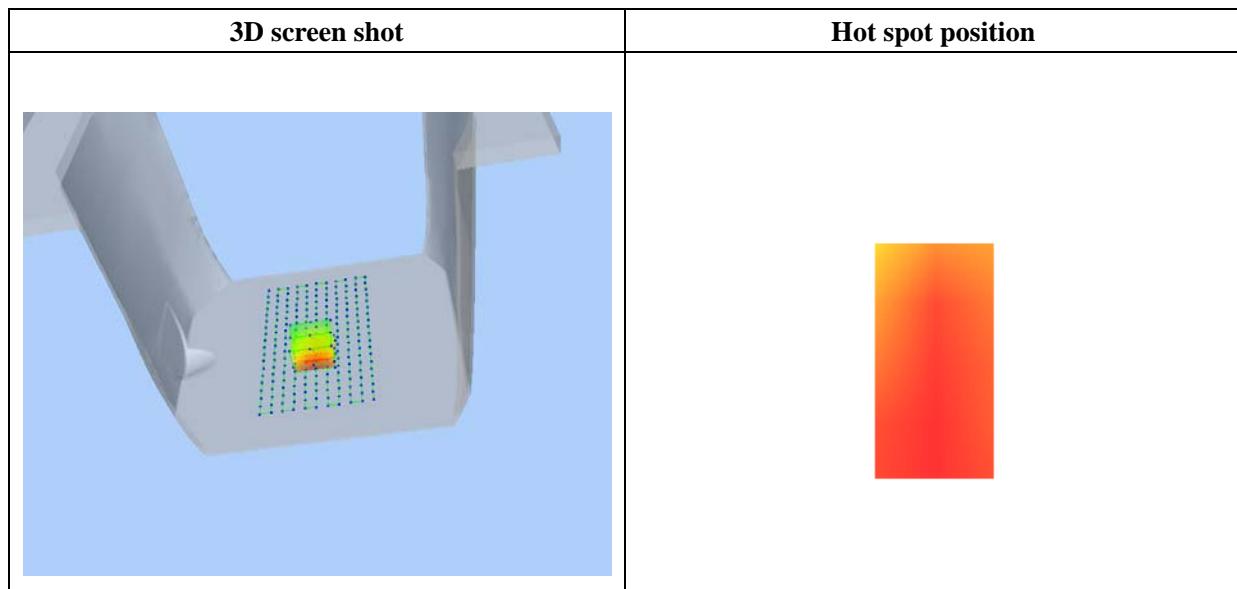
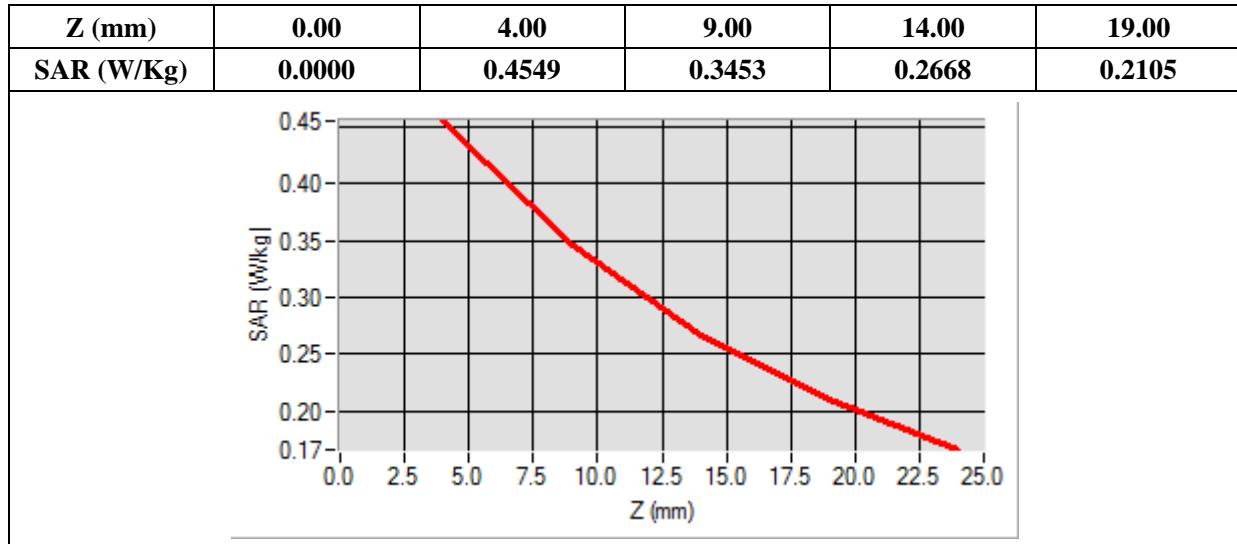
B. SAR Measurement Results

| | |
|--|------------|
| 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=-1.00, Y=-18.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.321924 |
| SAR 1g (W/Kg) | 0.439405 |



MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

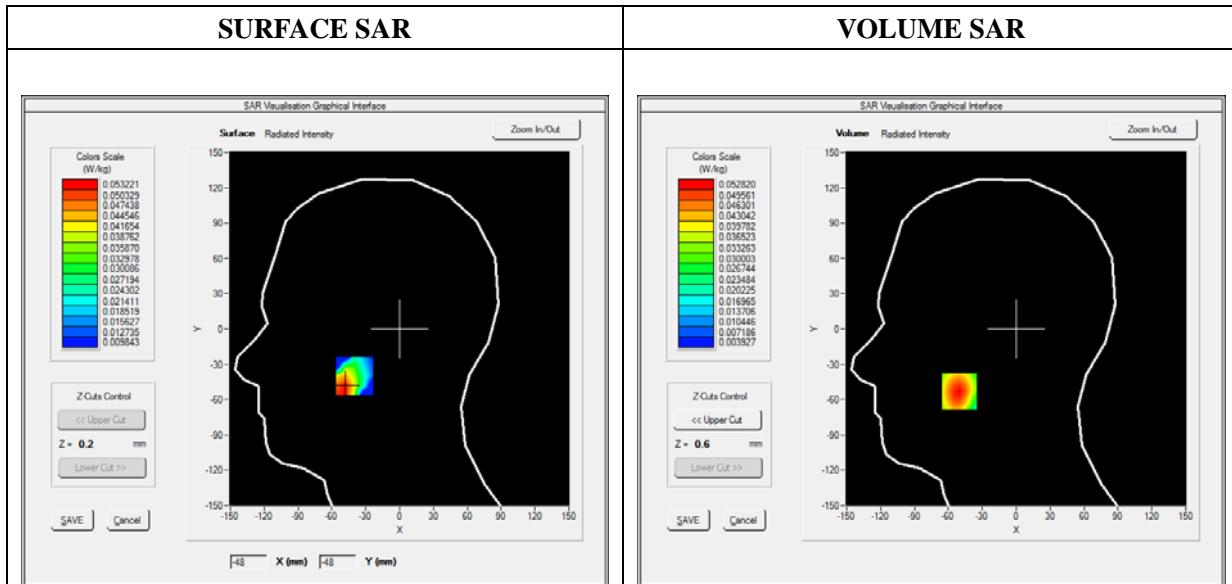
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

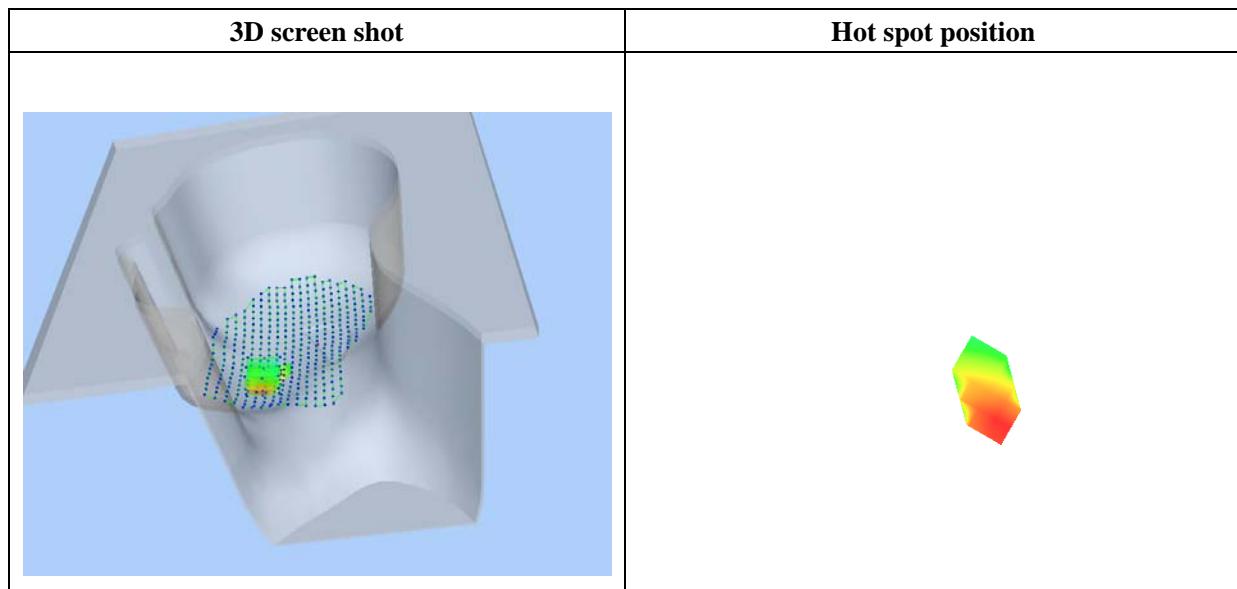
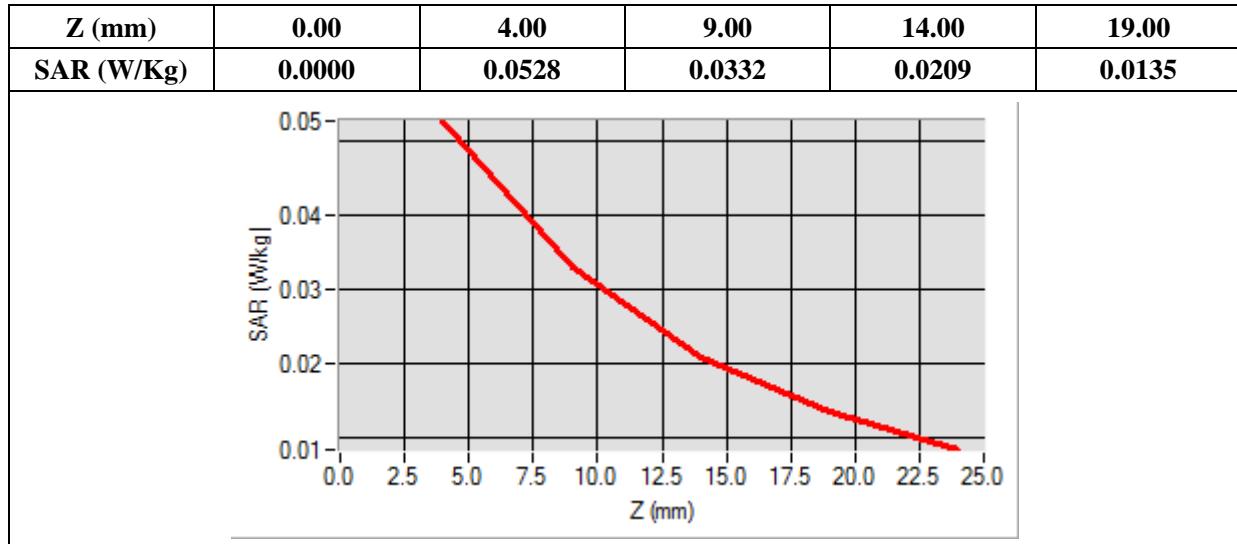
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1880.000000 |
| 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=-50.00, Y=-53.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.031017 |
| SAR 1g (W/Kg) | 0.049796 |



MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

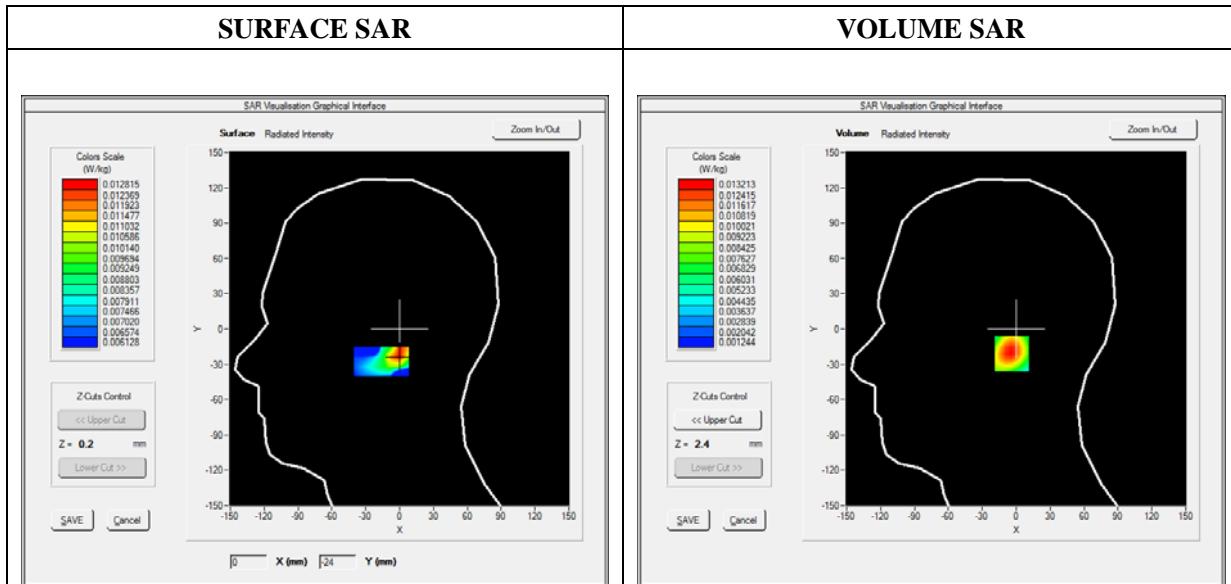
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

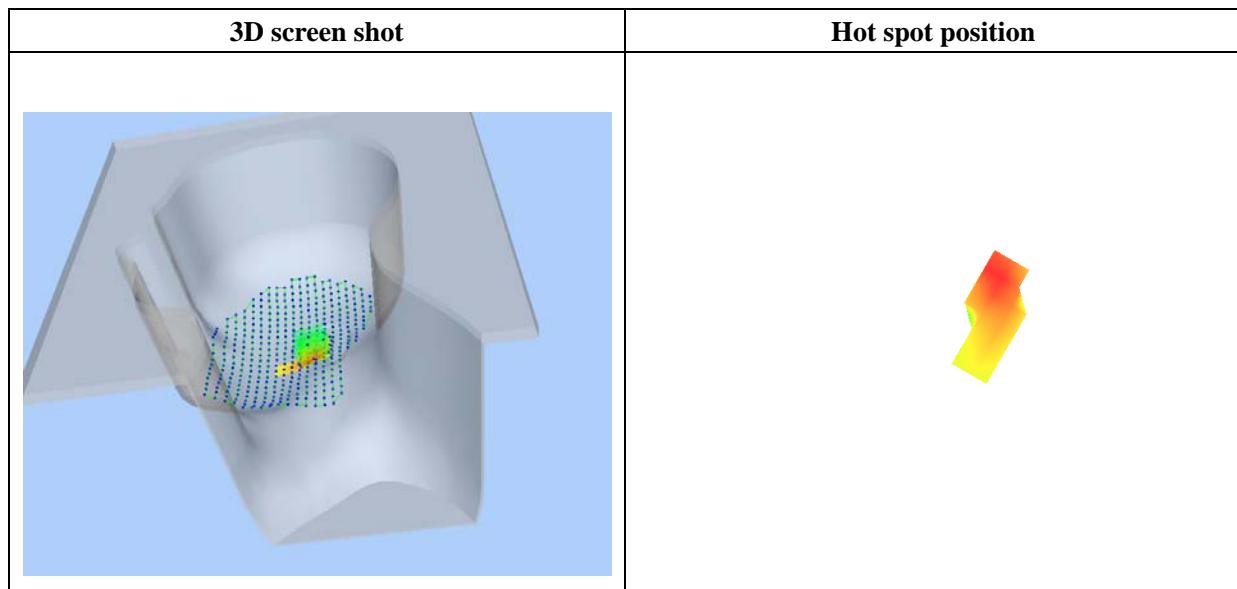
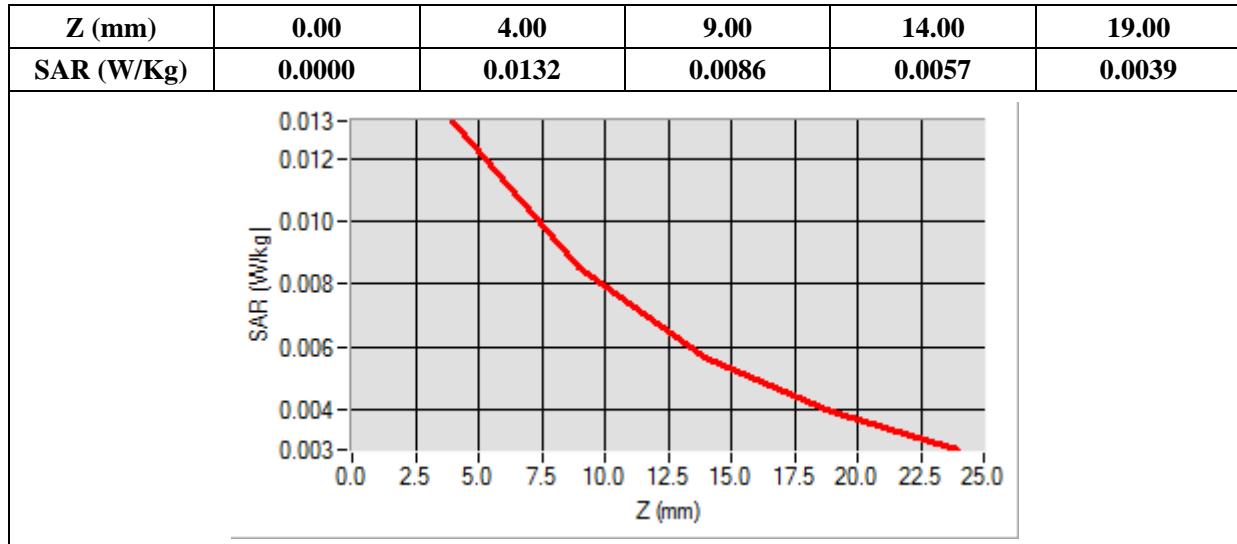
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1880.000000 |
| 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=0.00, Y=-21.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.007562 |
| SAR 1g (W/Kg) | 0.012377 |



MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 11 minutes 48 seconds

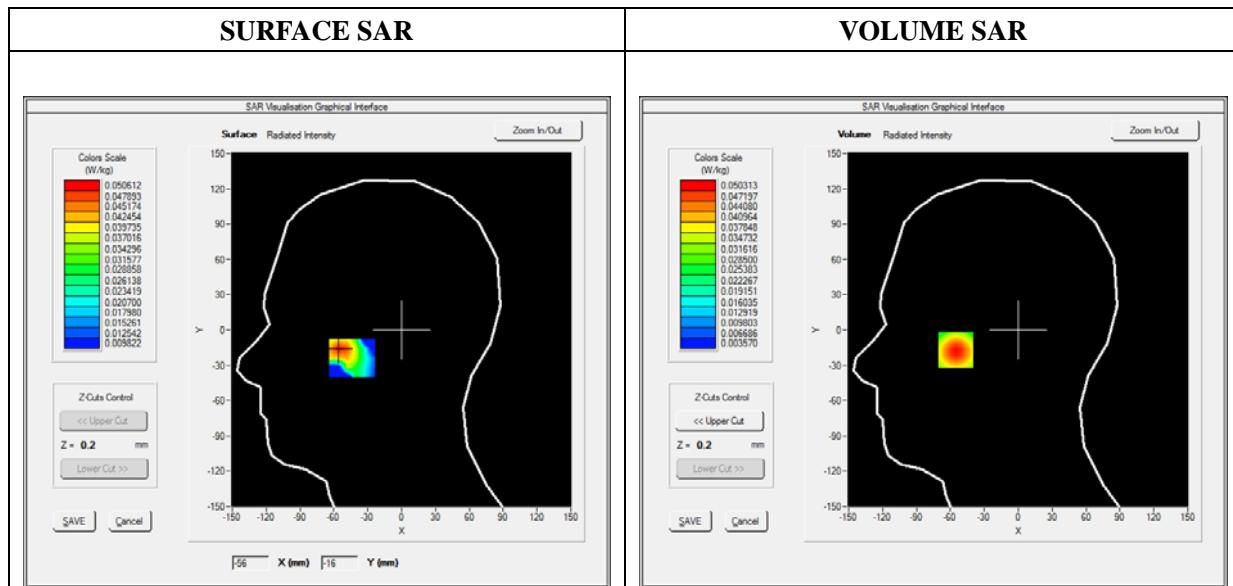
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

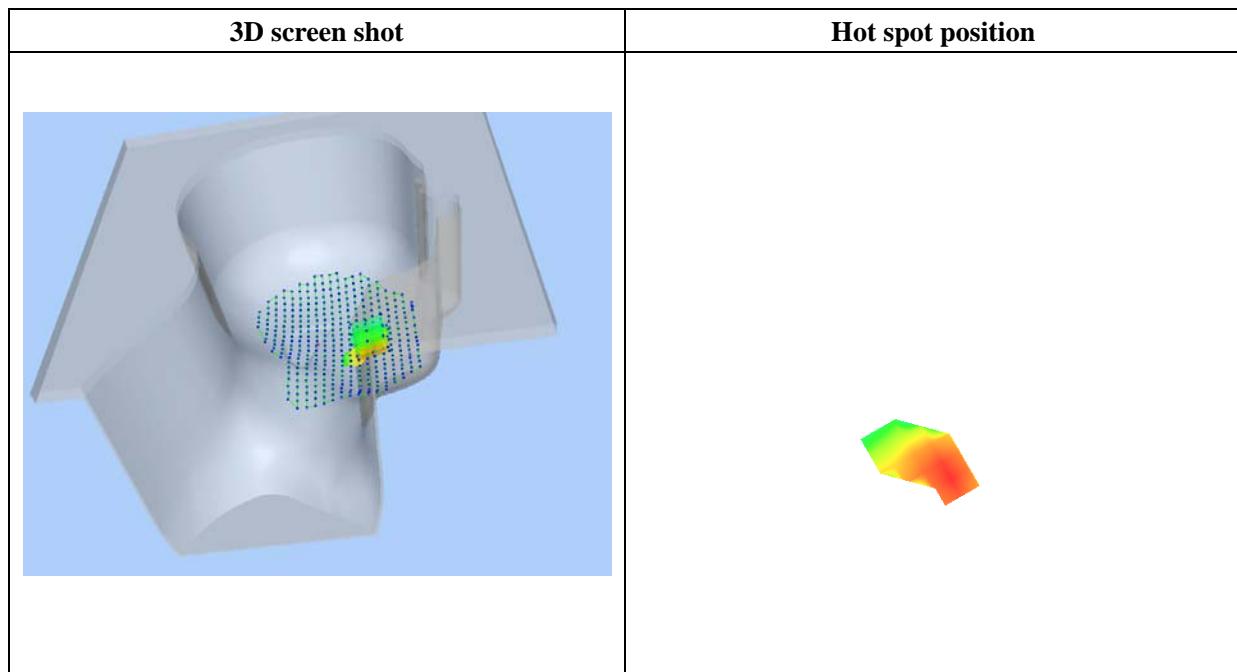
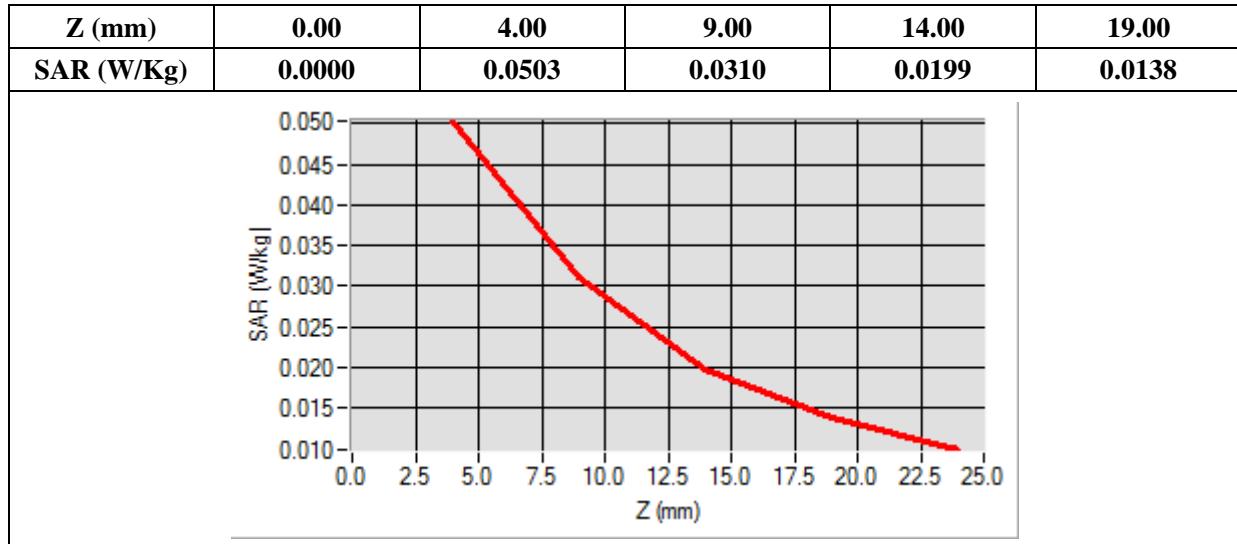
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1880.000000 |
| 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=-16.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.028734 |
| SAR 1g (W/Kg) | 0.047244 |



MEASUREMENT 16

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

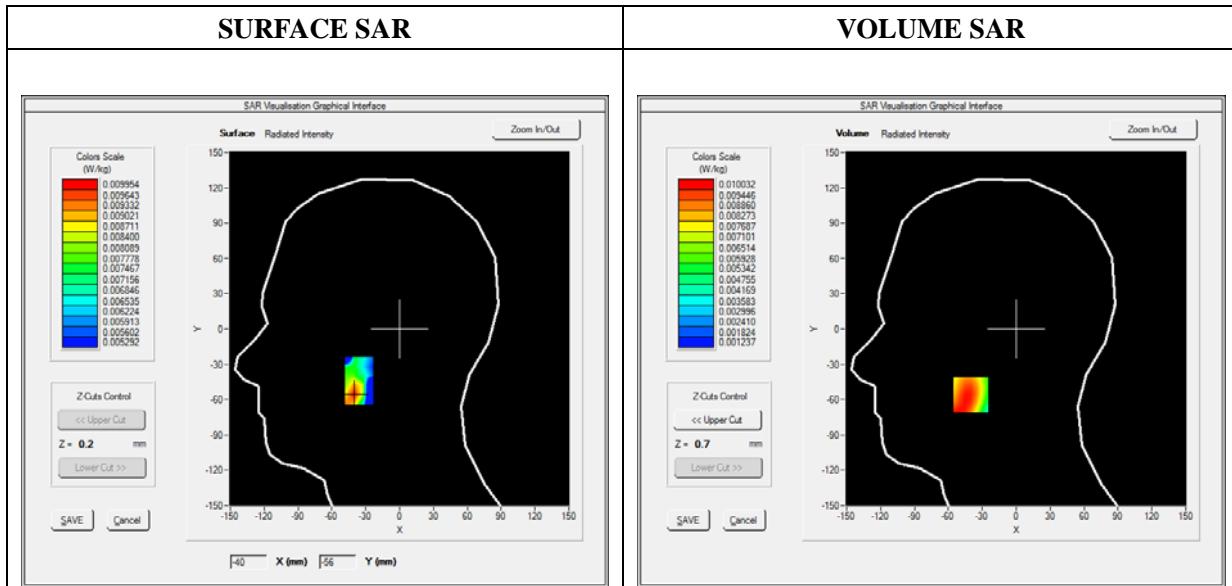
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

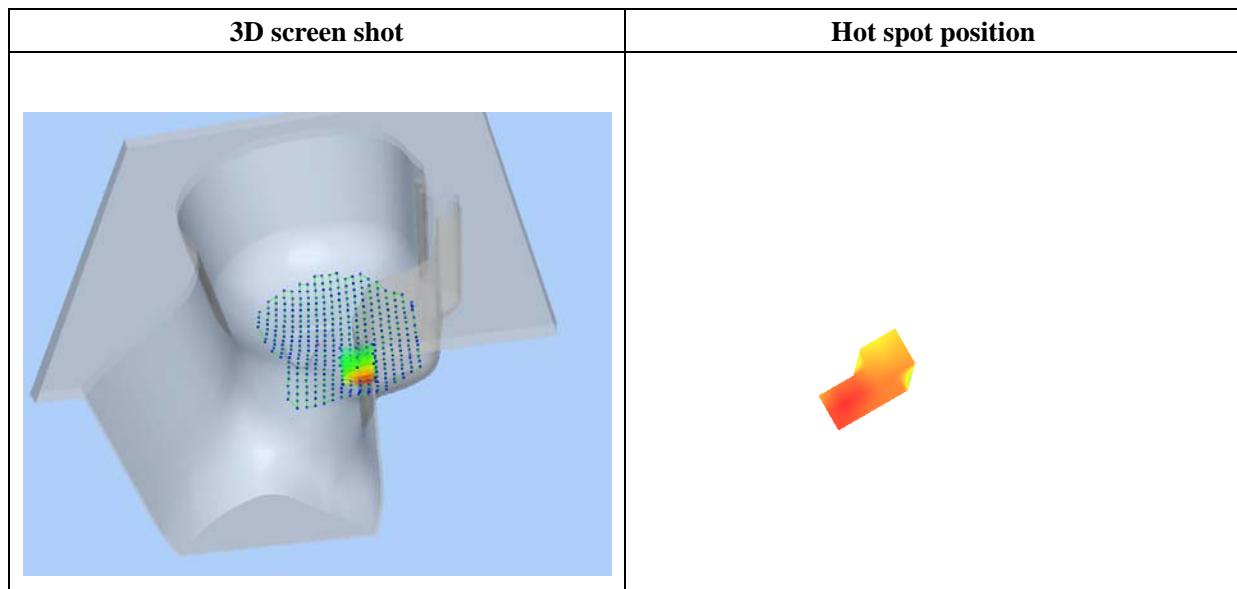
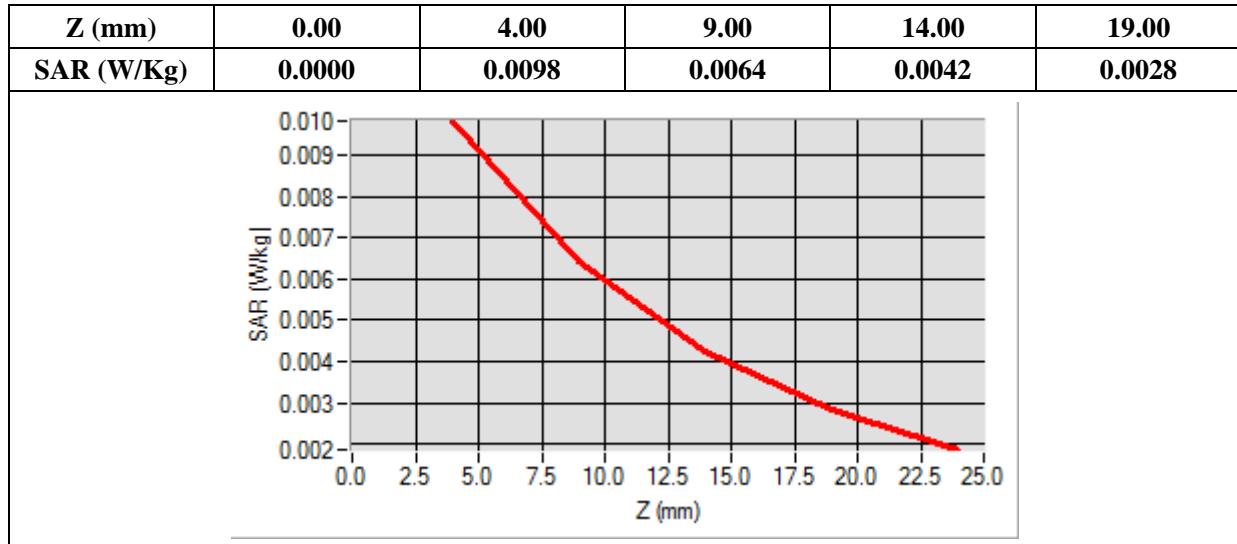
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1880.000000 |
| 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=-40.00, Y=-56.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.006517 |
| SAR 1g (W/Kg) | 0.009668 |



MEASUREMENT 17

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

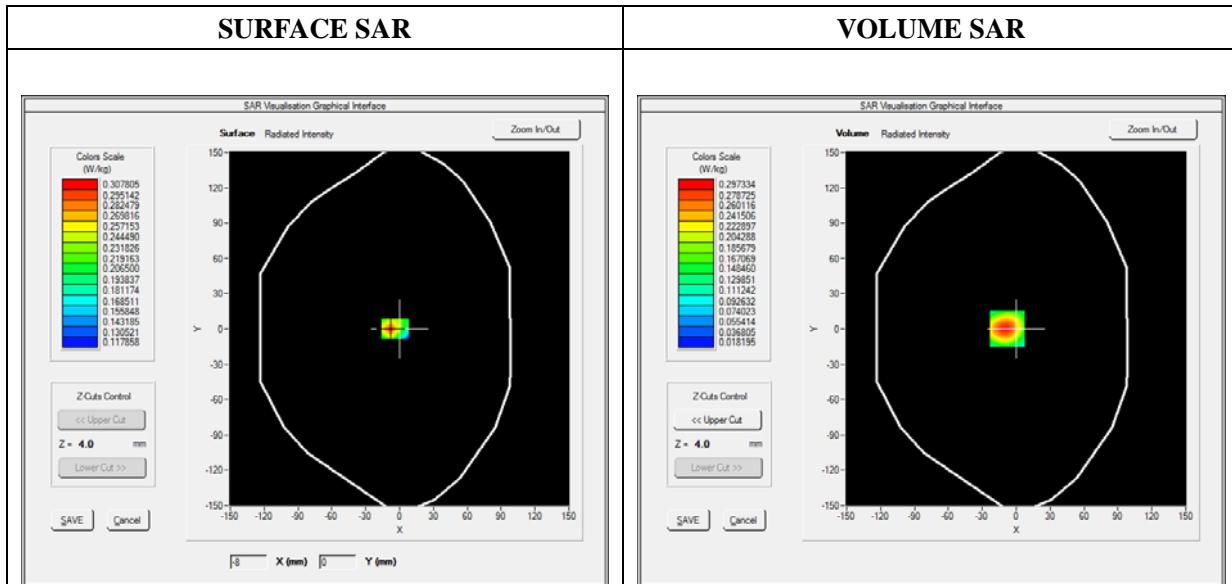
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

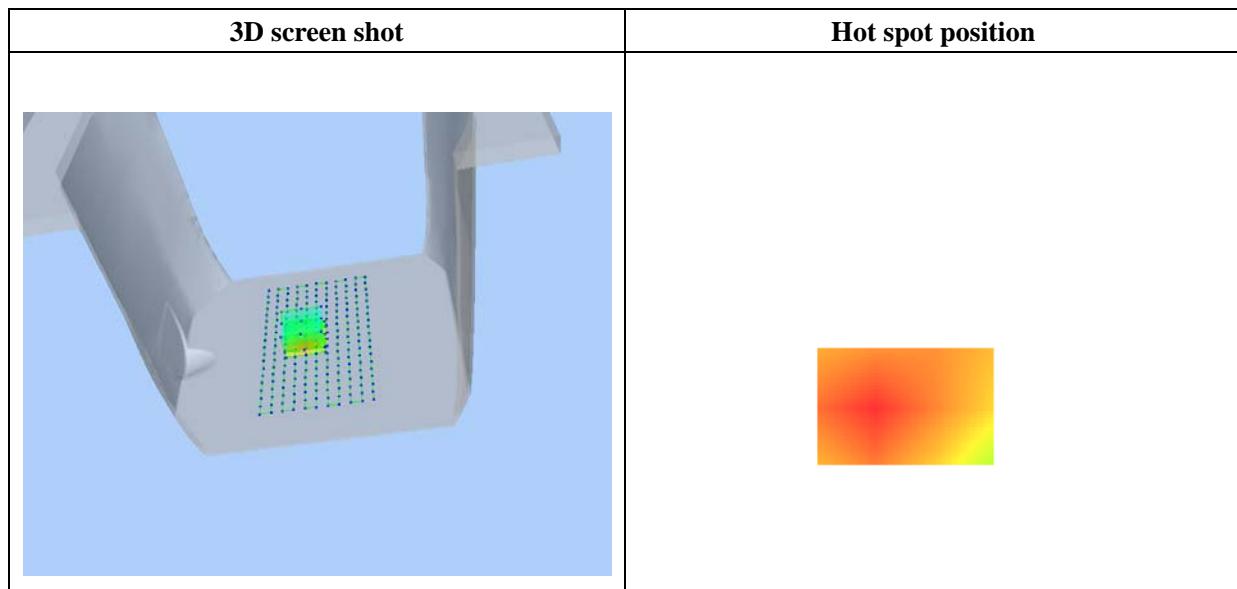
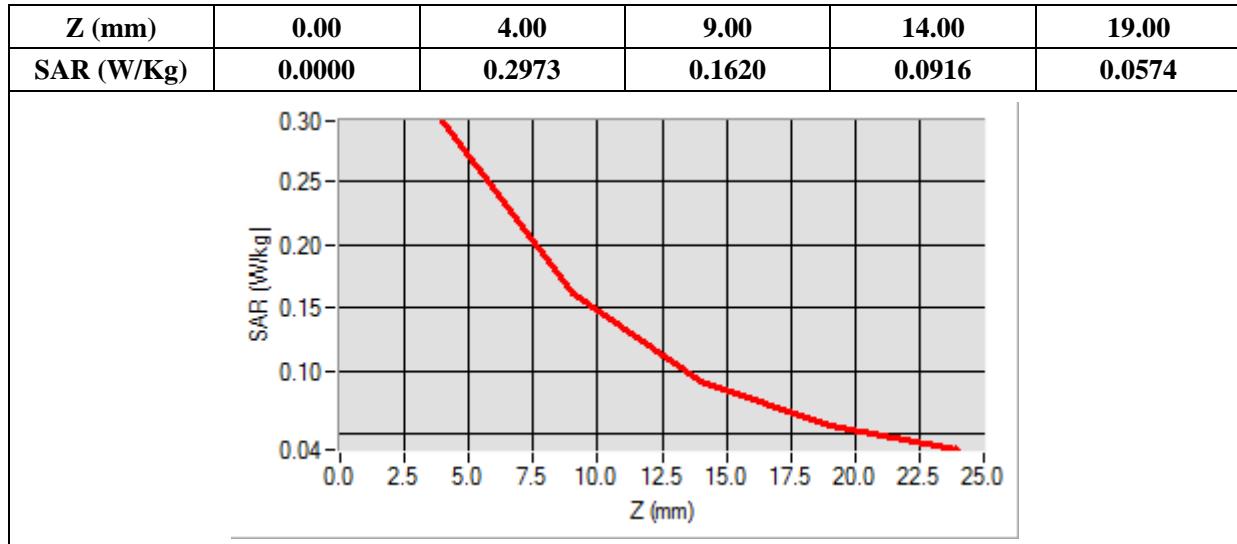
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1880.000000 |
| 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=0.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.176390 |
| SAR 1g (W/Kg) | 0.324620 |



MEASUREMENT 18

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

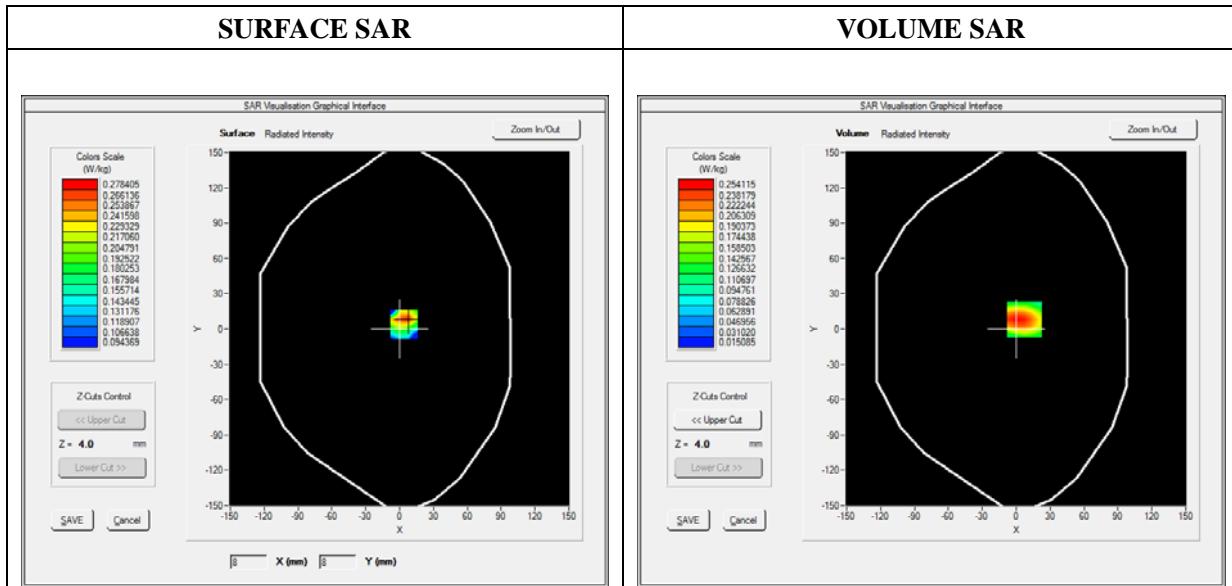
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

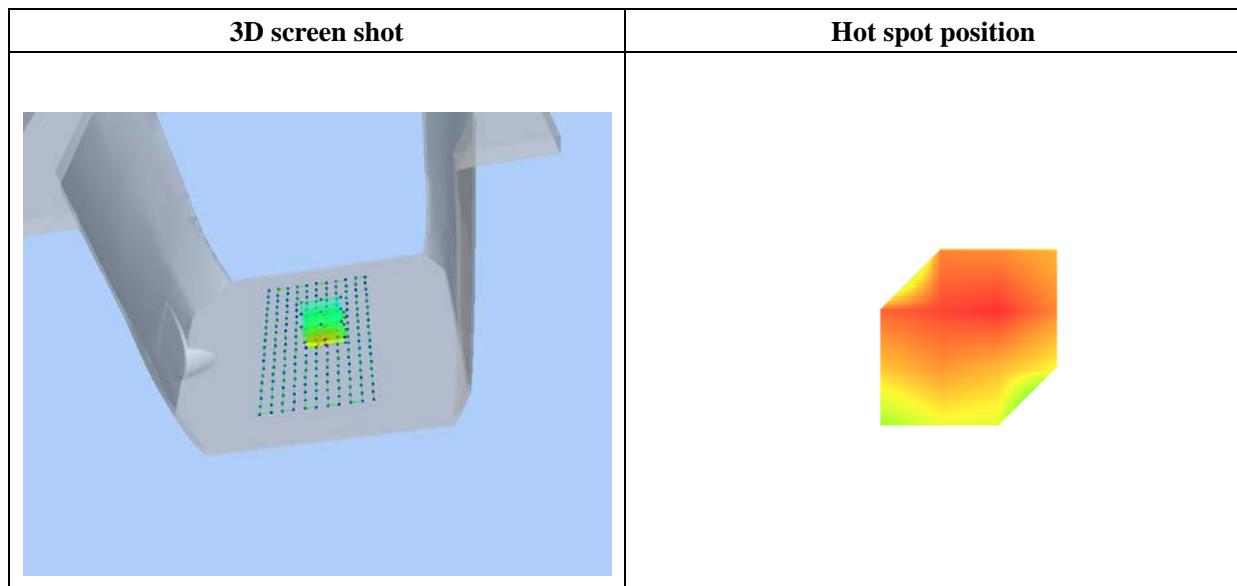
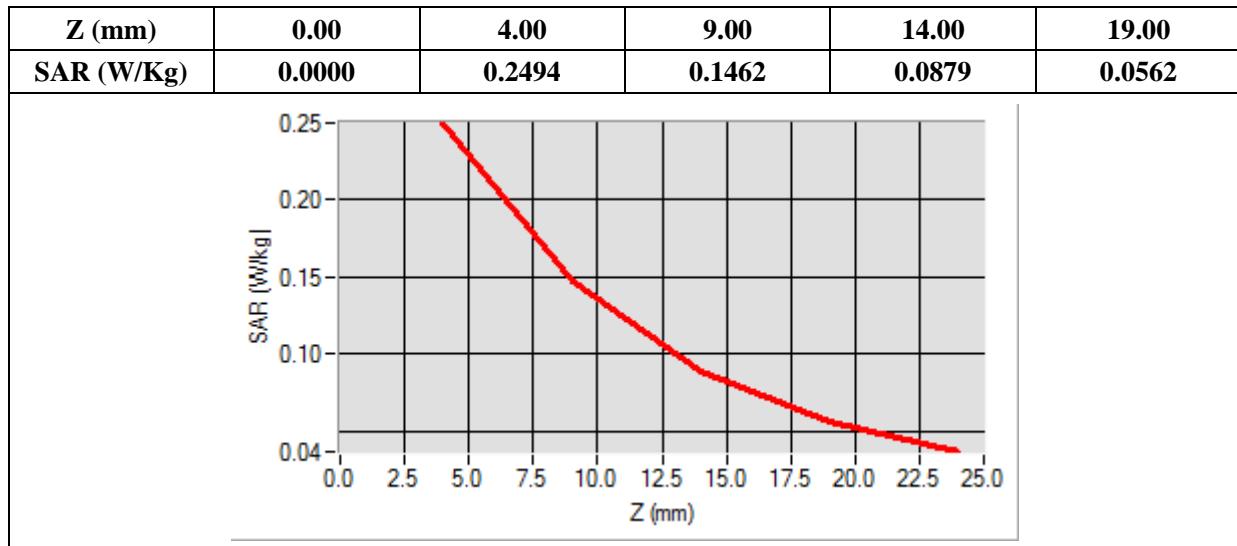
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1880.000000 |
| 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=7.00, Y=8.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.159098 |
| SAR 1g (W/Kg) | 0.277426 |



MEASUREMENT 19

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

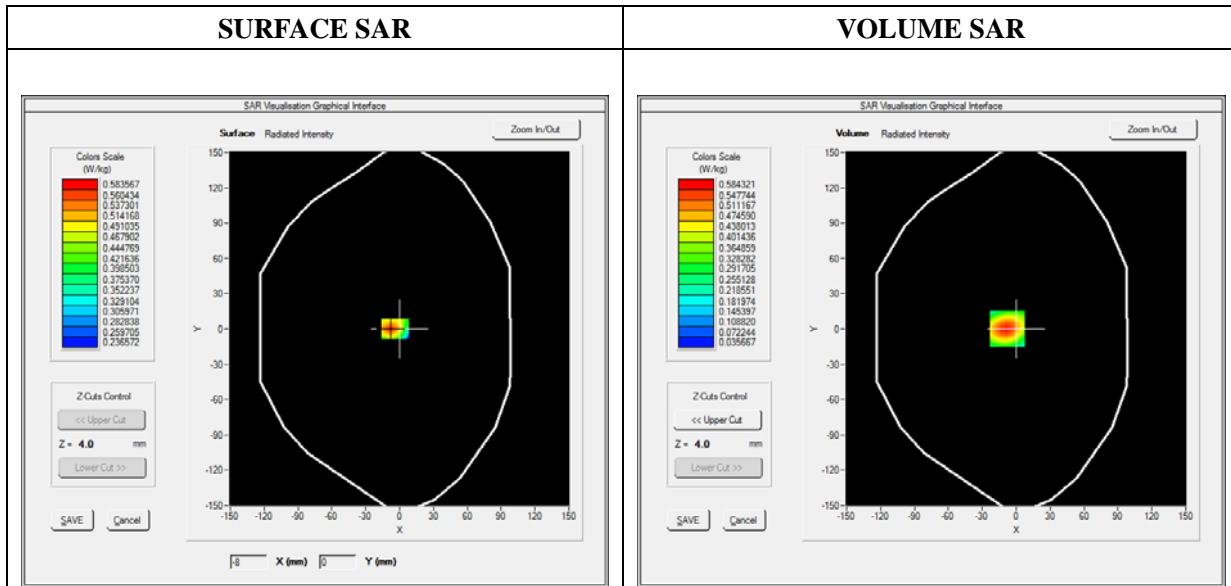
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Back |
| Band | GPRS1900_4TX |
| Channels | High |
| Signal | Duty Cycle: 1:2 |

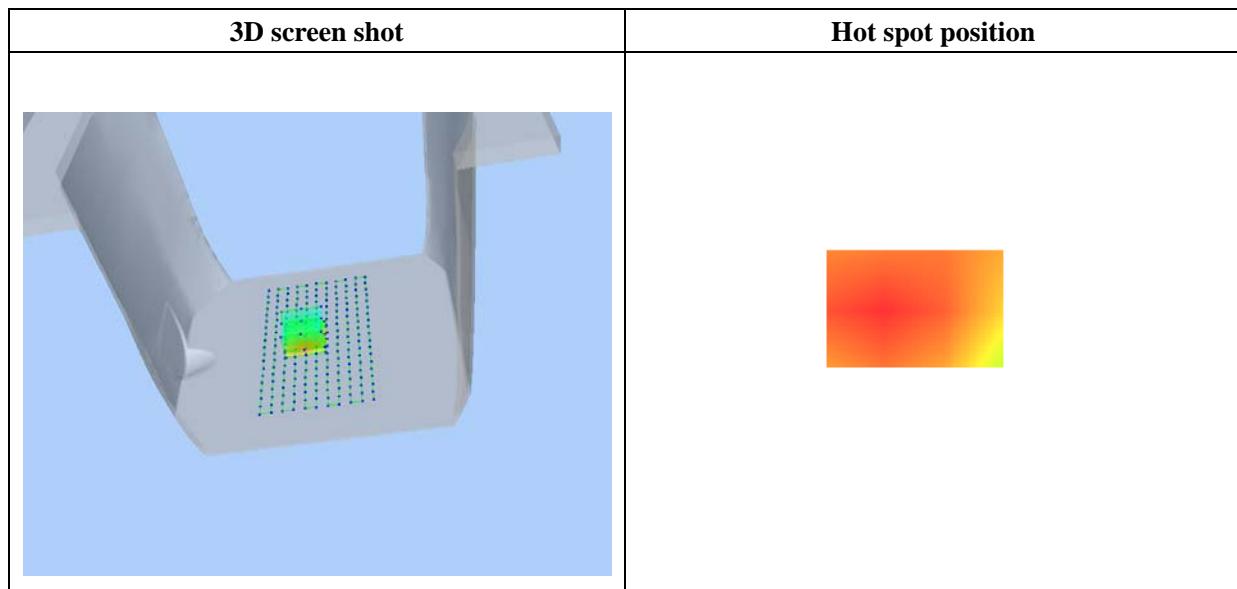
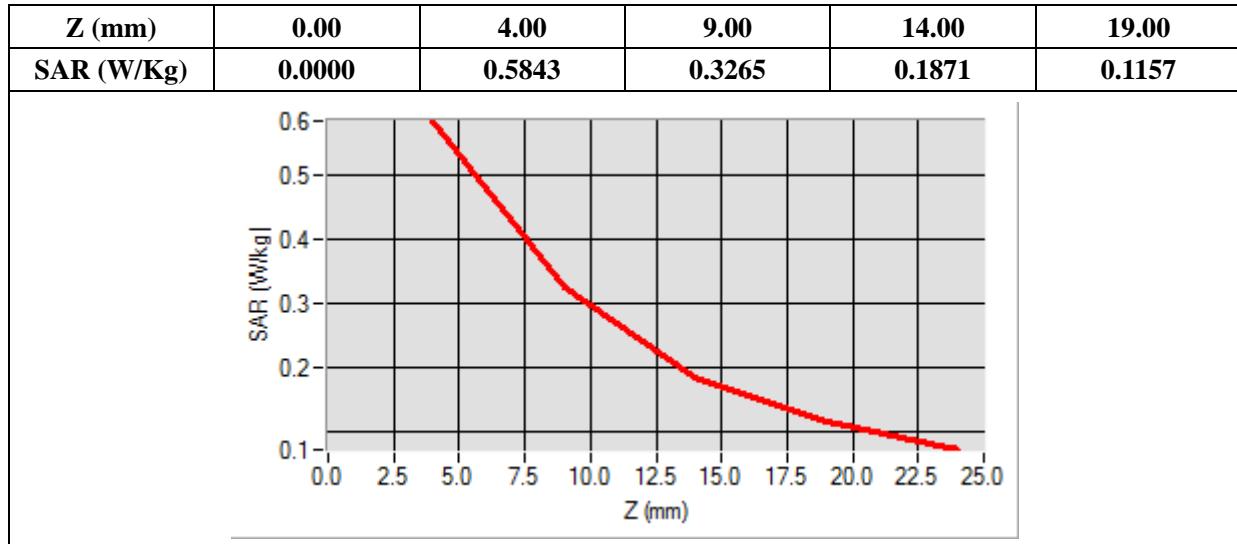
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1909.800000 |
| 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=-8.00, Y=0.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.299847 |
| SAR 1g (W/Kg) | 0.541095 |



MEASUREMENT 20

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

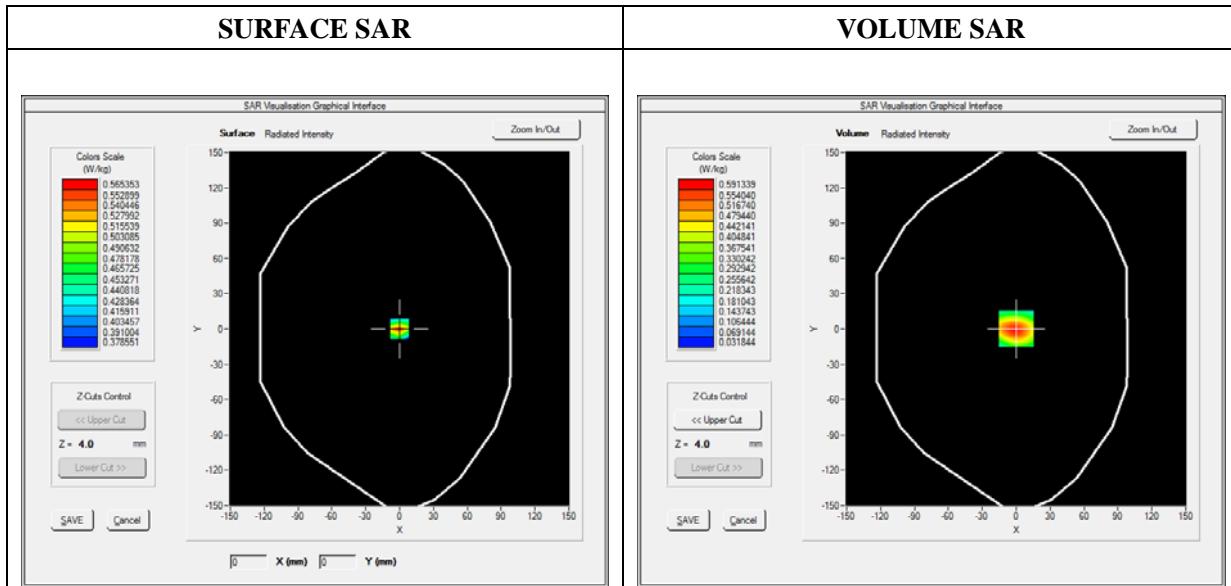
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Front |
| Band | GPRS1900_4TX |
| Channels | High |
| Signal | Duty Cycle: 1:2 |

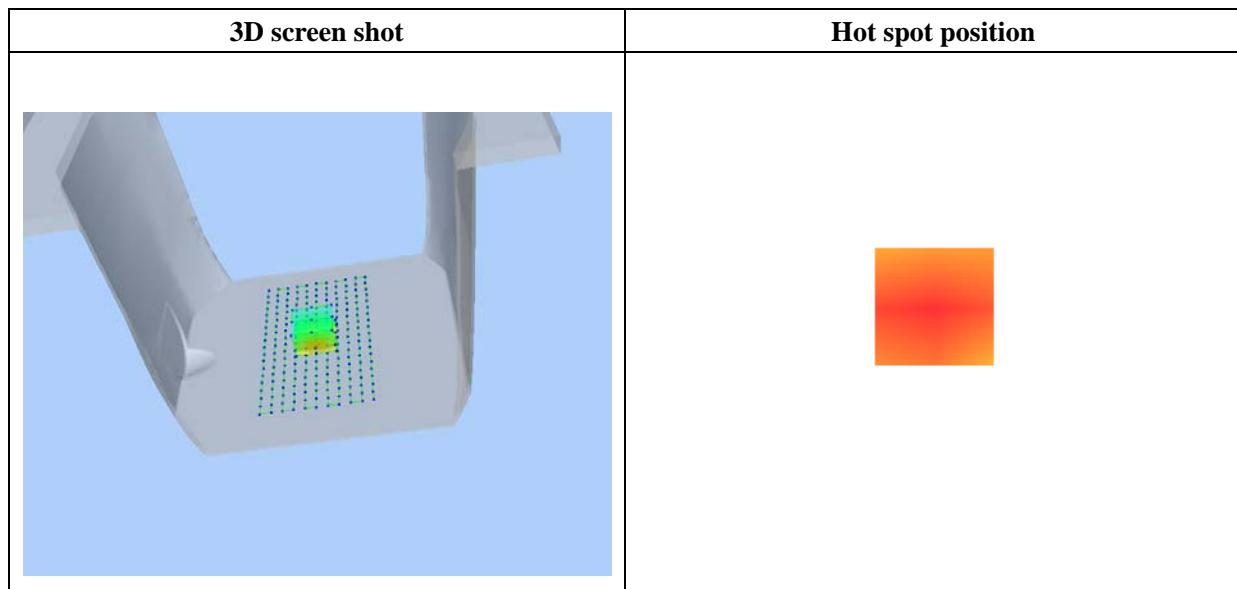
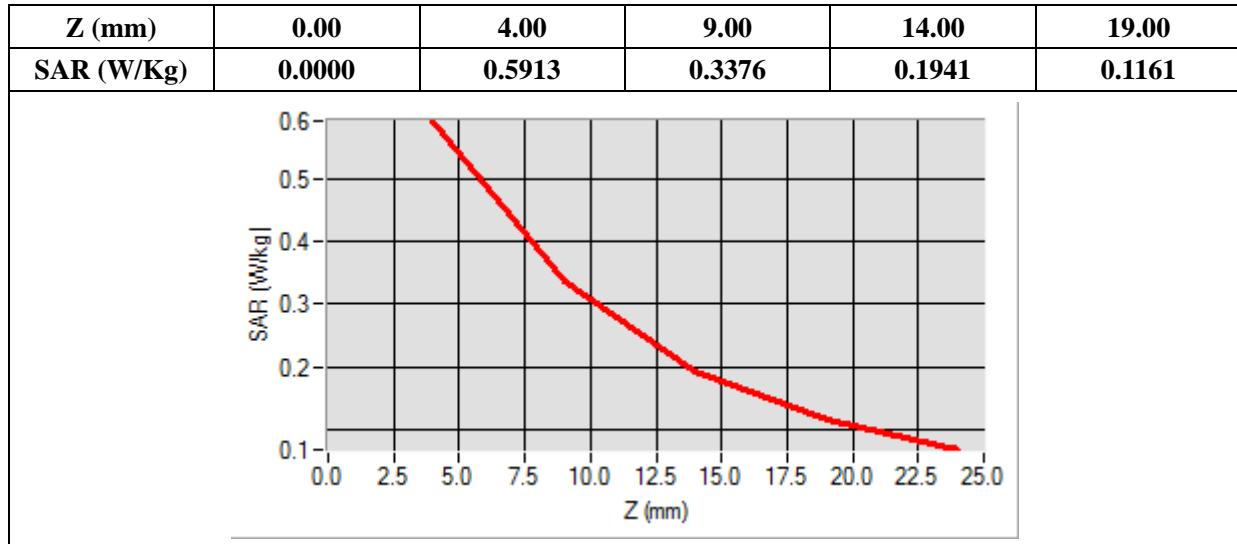
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1909.800000 |
| 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=0.00, Y=0.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.300631 |
| SAR 1g (W/Kg) | 0.546963 |



MEASUREMENT 21

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

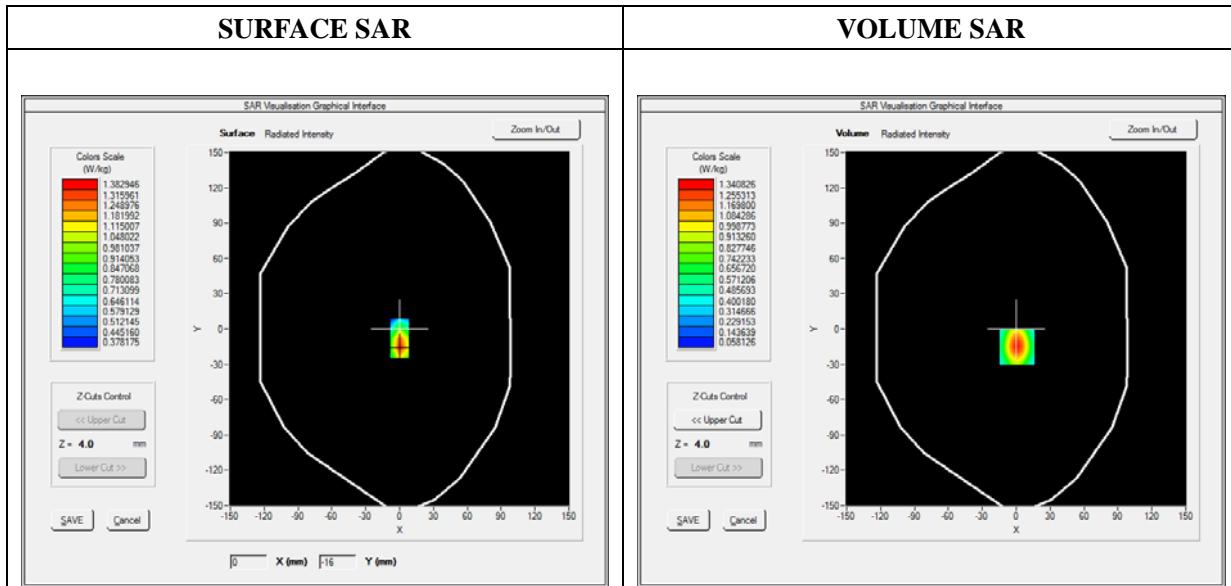
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Bottom |
| Band | GPRS1900_4TX |
| Channels | Low |
| Signal | Duty Cycle: 1:2 |

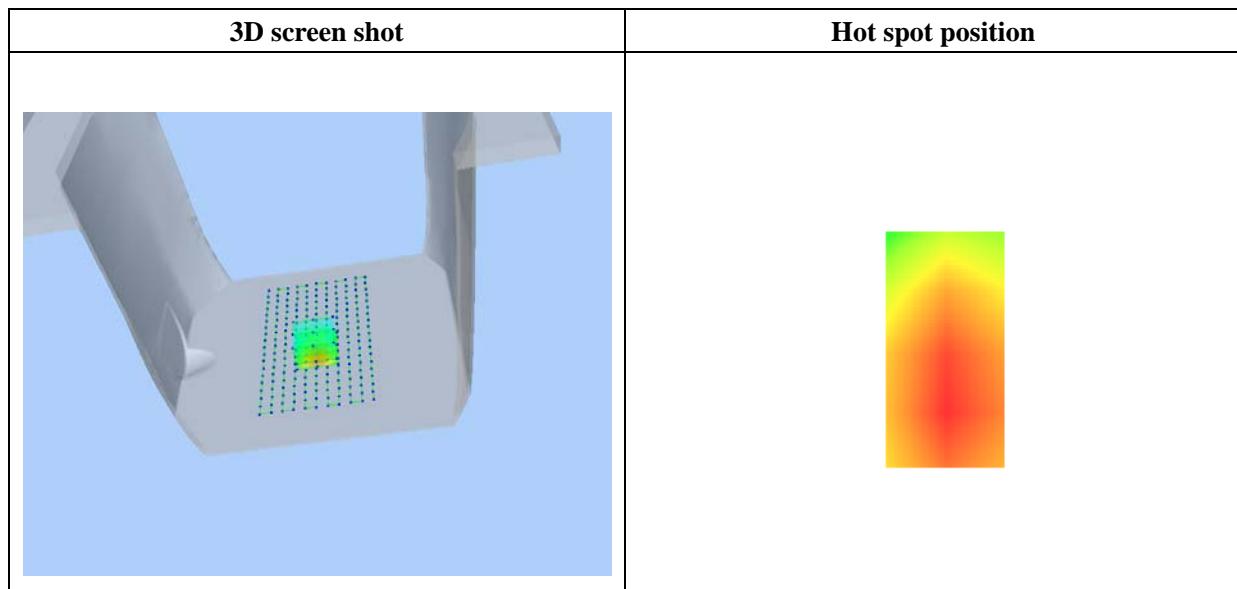
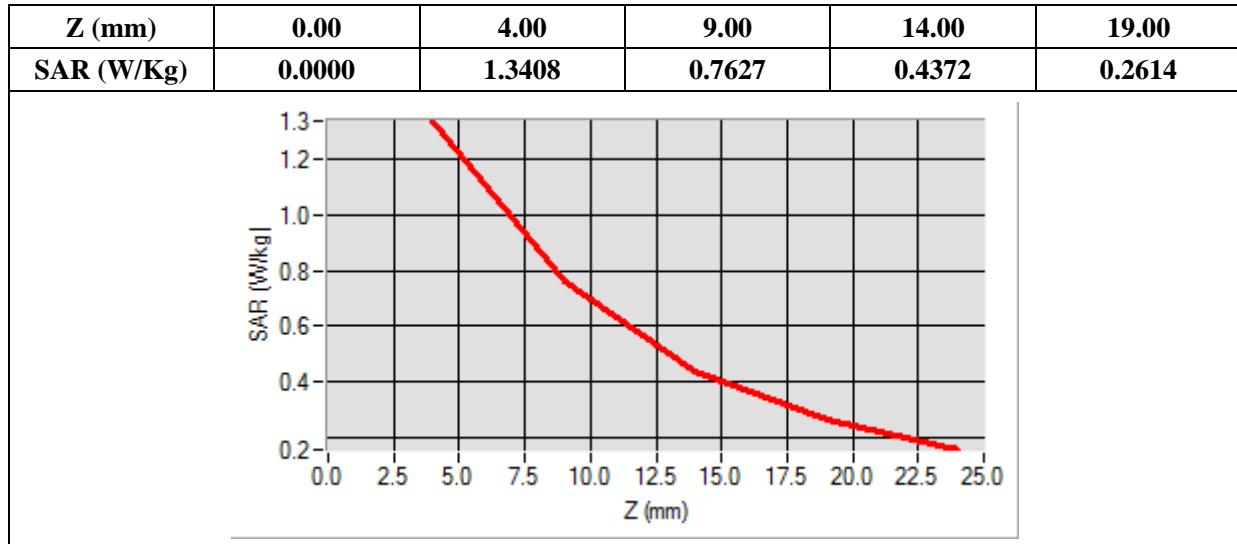
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1850.200000 |
| Relative Permittivity (real part) | 52.420415 |
| Conductivity (S/m) | 1.501966 |
| Power Variation (%) | 2.547247 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=1.00, Y=-15.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.649157 |
| SAR 1g (W/Kg) | 1.220645 |



MEASUREMENT 22

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

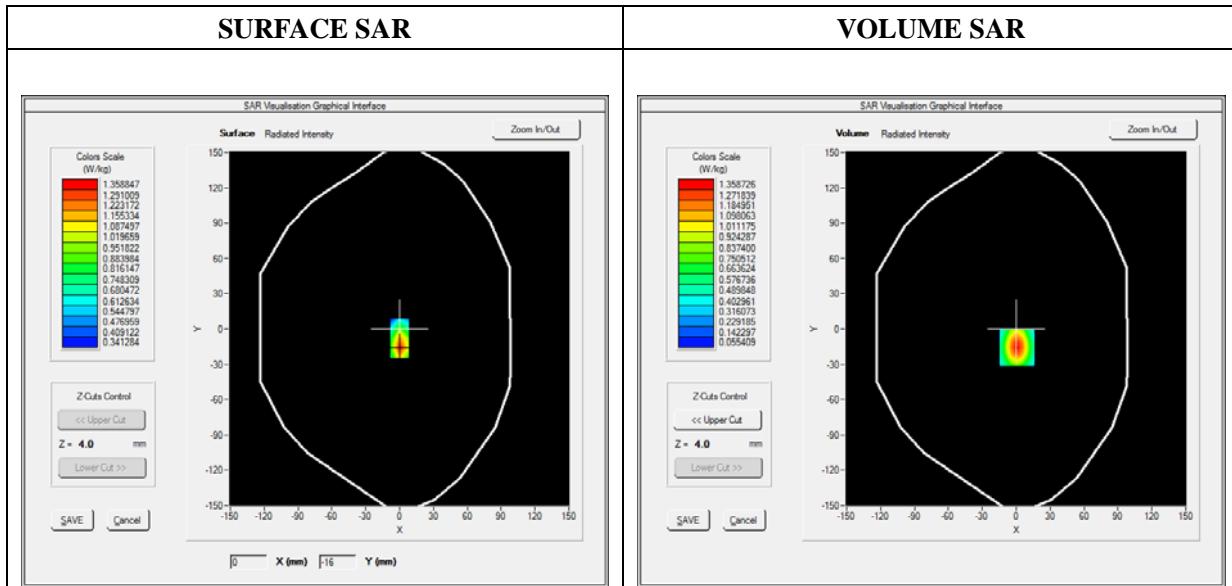
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Bottom |
| Band | GPRS1900_4TX |
| Channels | Middle |
| Signal | Duty Cycle: 1:2 |

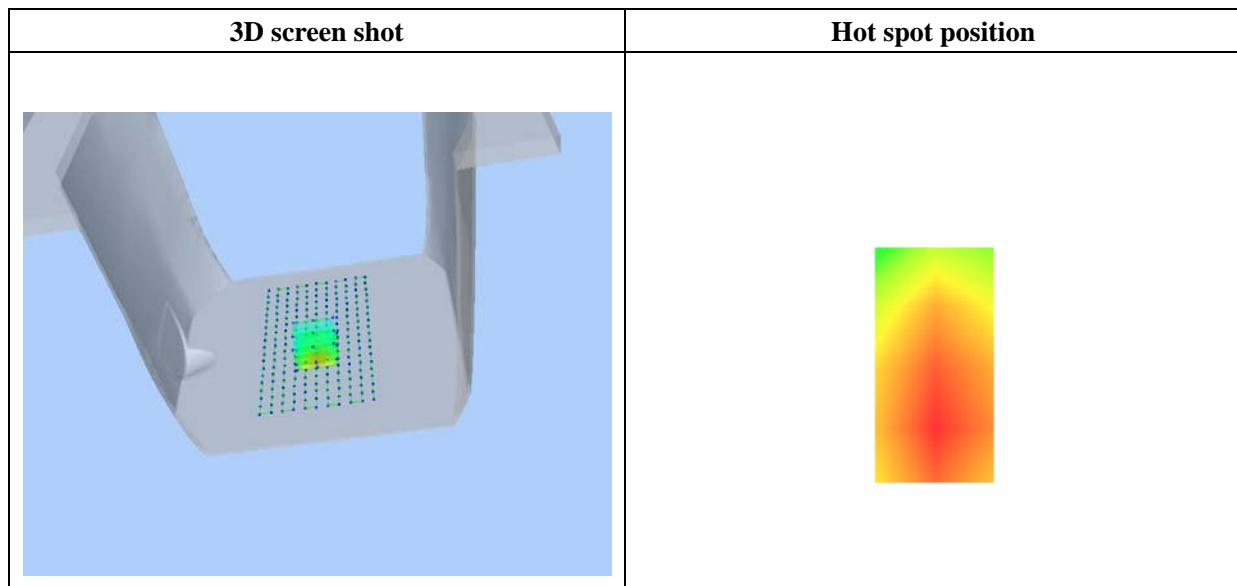
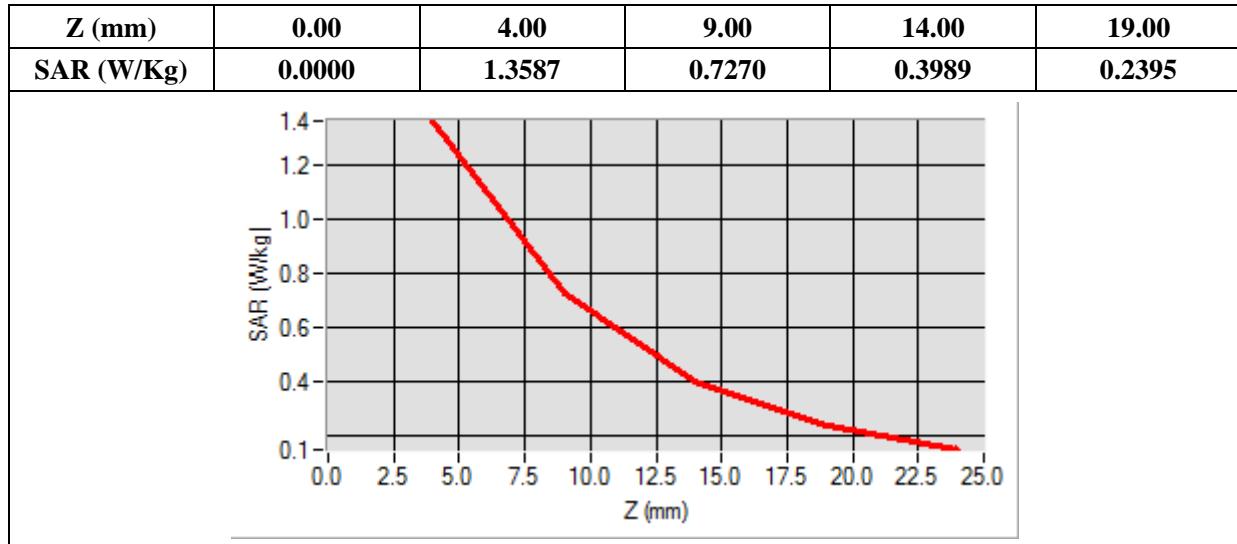
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1880.000000 |
| Relative Permittivity (real part) | 52.420415 |
| Conductivity (S/m) | 1.501966 |
| Power Variation (%) | 2.956378 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=1.00, Y=-16.00

| | |
|-----------------------|-----------------|
| SAR 10g (W/Kg) | 0.637088 |
| SAR 1g (W/Kg) | 1.235577 |



MEASUREMENT 23

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

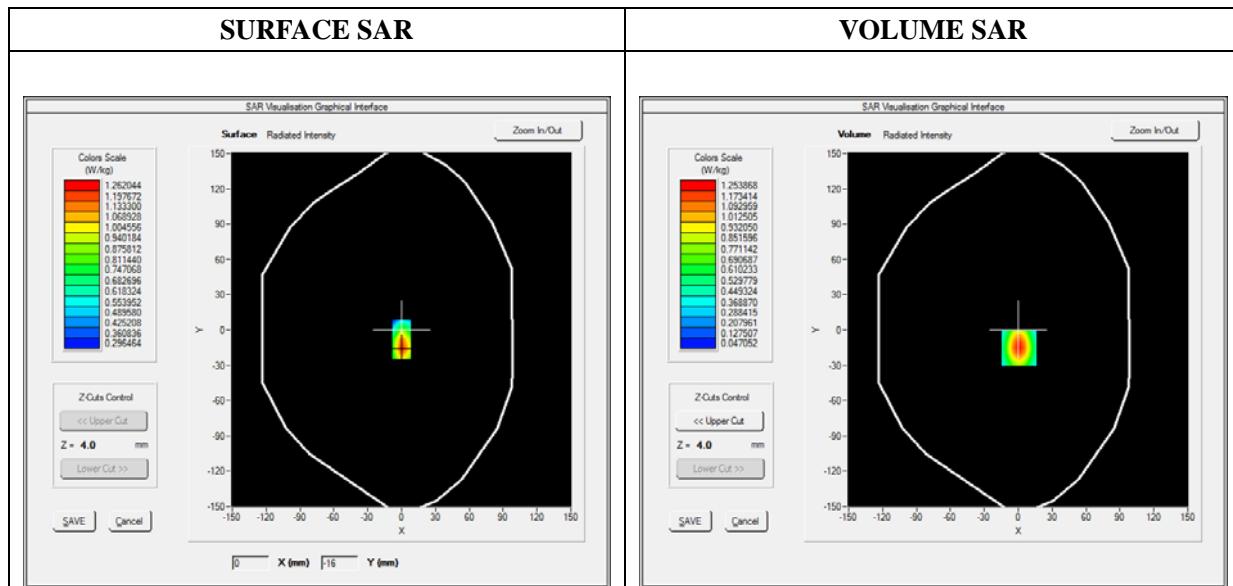
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Bottom |
| Band | GPRS1900_4TX |
| Channels | High |
| Signal | Duty Cycle: 1:2 |

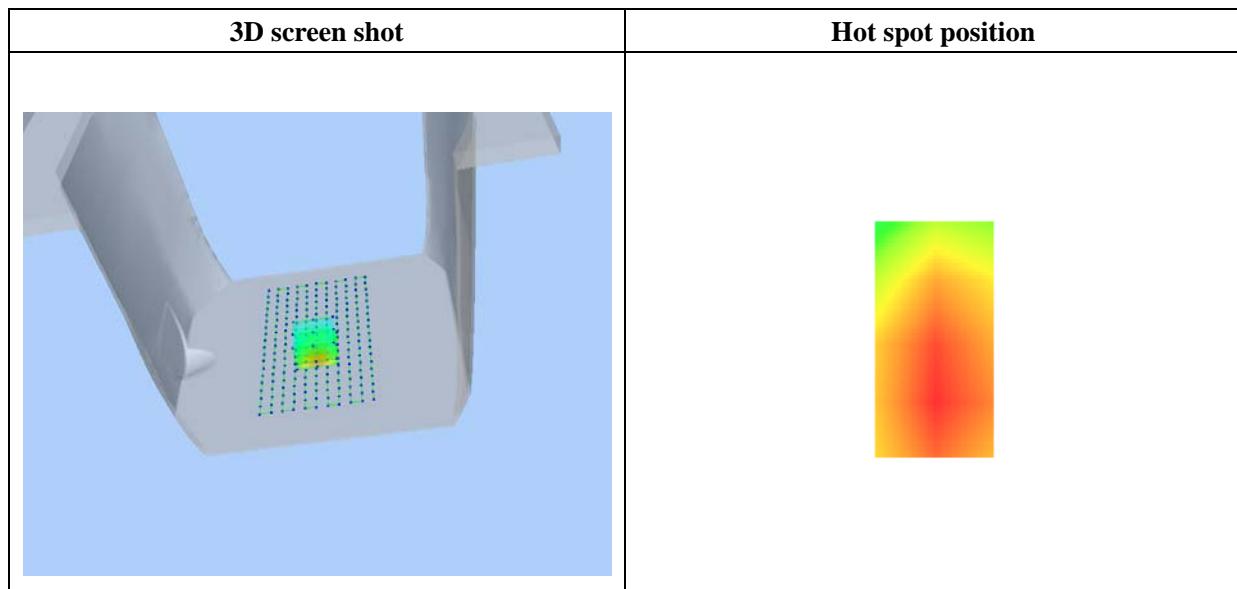
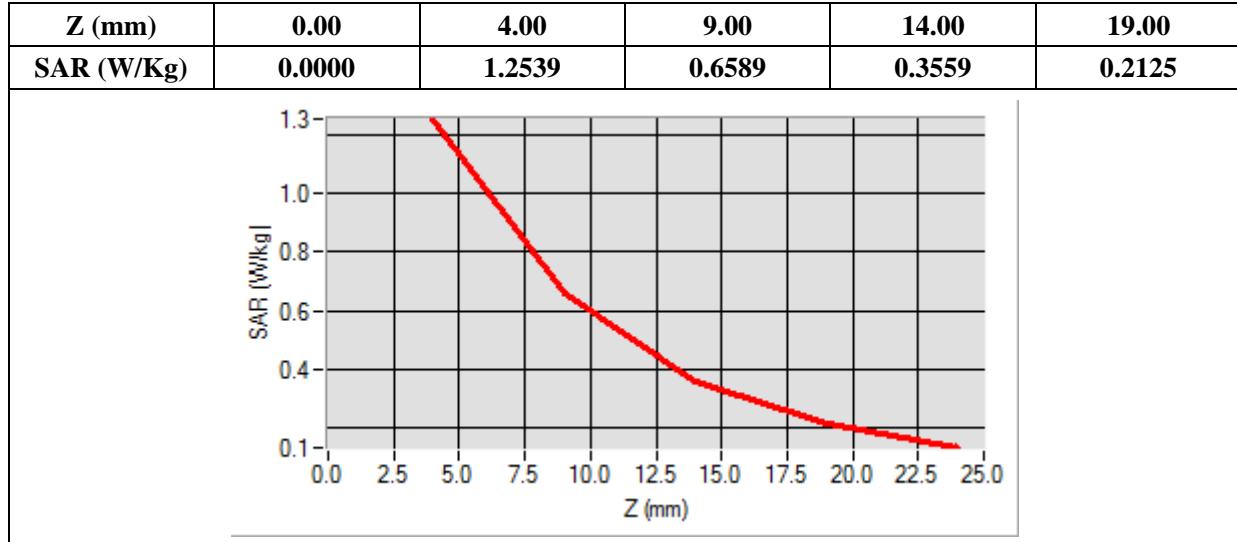
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1909.800000 |
| Relative Permittivity (real part) | 52.420415 |
| Conductivity (S/m) | 1.501966 |
| Power Variation (%) | 2.053264 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=1.00, Y=-15.00

| | |
|-----------------------|-----------------|
| SAR 10g (W/Kg) | 0.587955 |
| SAR 1g (W/Kg) | 1.142002 |



MEASUREMENT 24

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

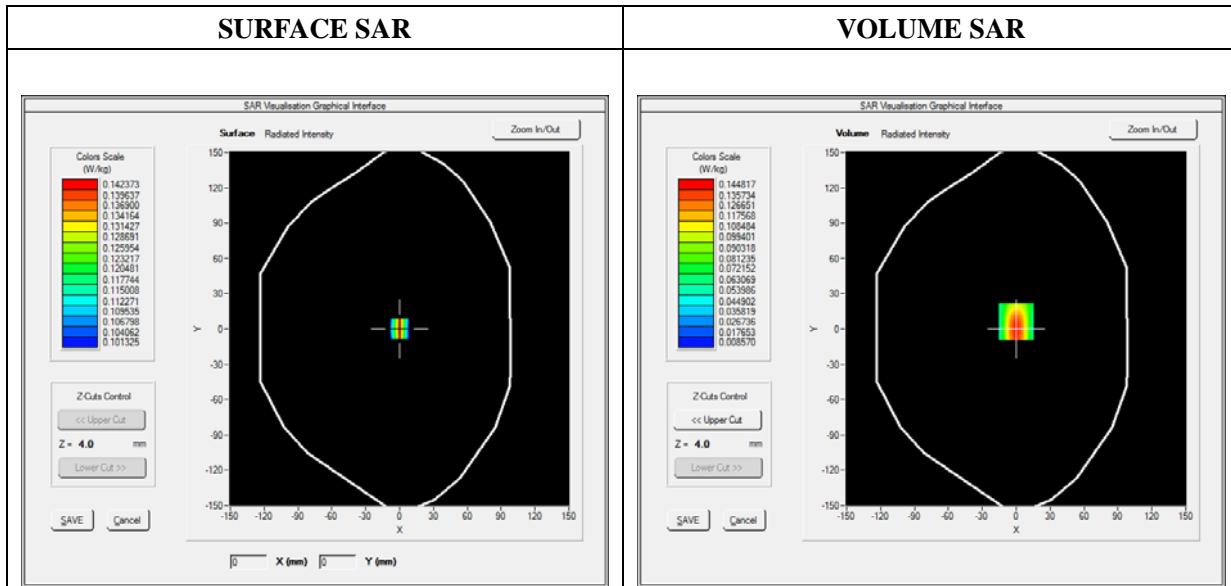
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Phantom | Flat plane |
| Device Position | Right side |
| Band | GPRS1900_4TX |
| Channels | High |
| Signal | Duty Cycle: 1:2 |

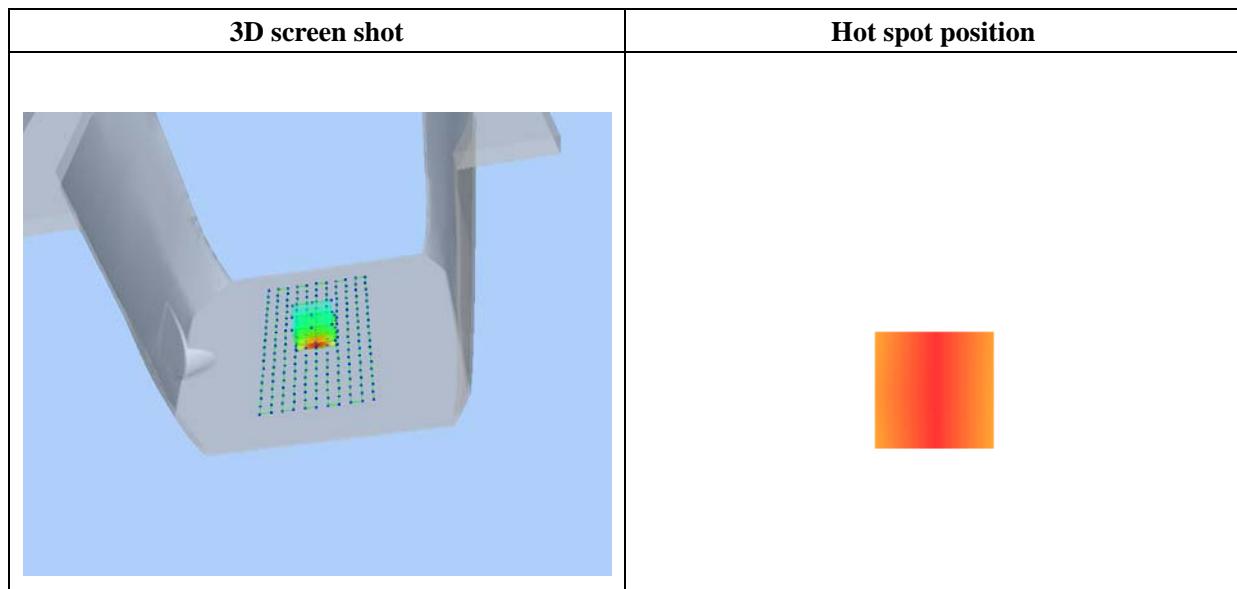
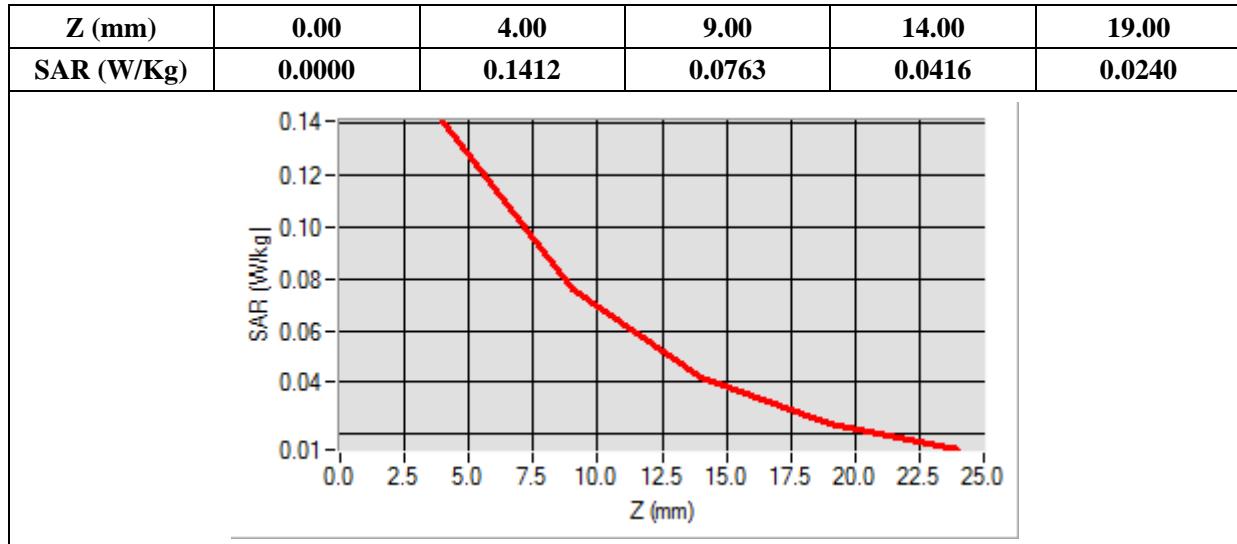
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1909.800000 |
| 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=0.00, Y=6.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.071592 |
| SAR 1g (W/Kg) | 0.133563 |



MEASUREMENT 25

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

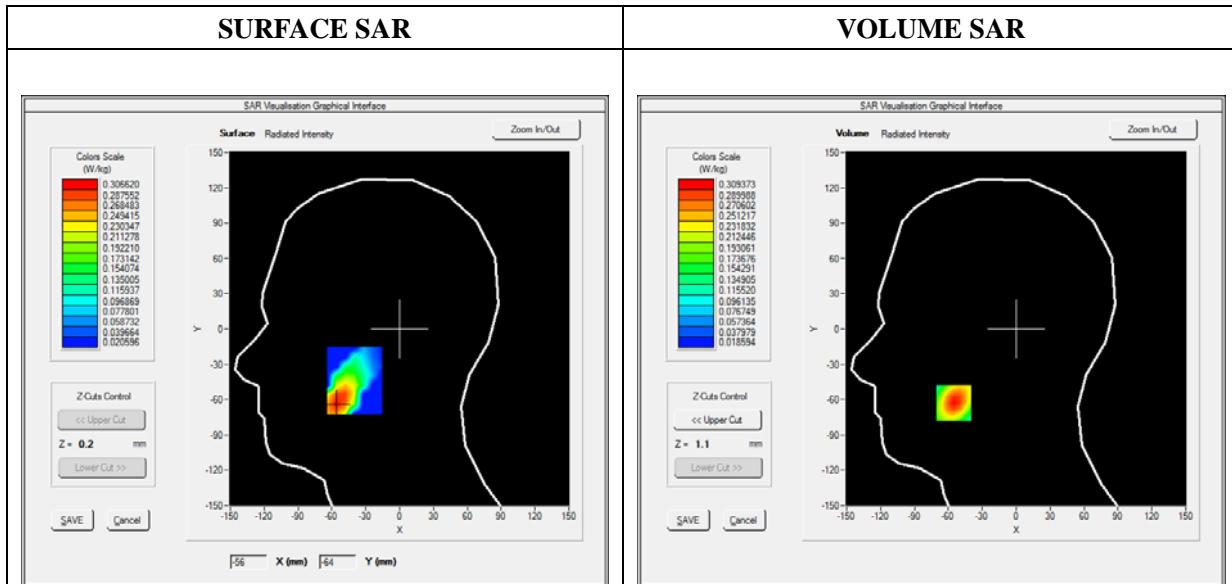
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

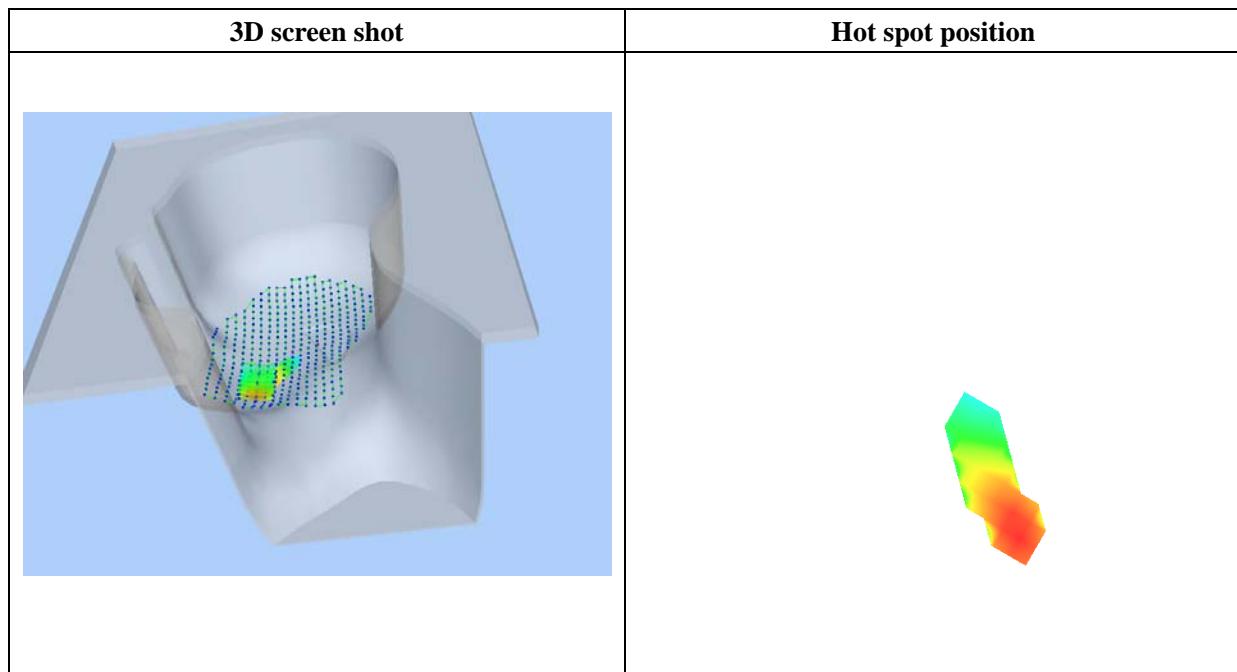
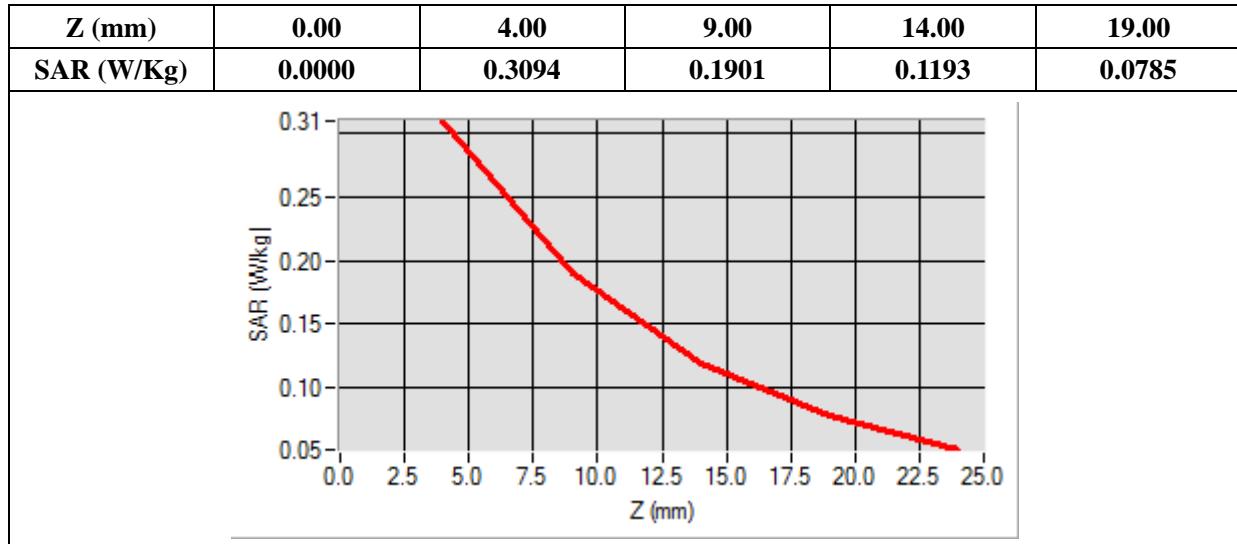
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1907.600000 |
| 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=-55.00, Y=-63.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.169889 |
| SAR 1g (W/Kg) | 0.288052 |



MEASUREMENT 26

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

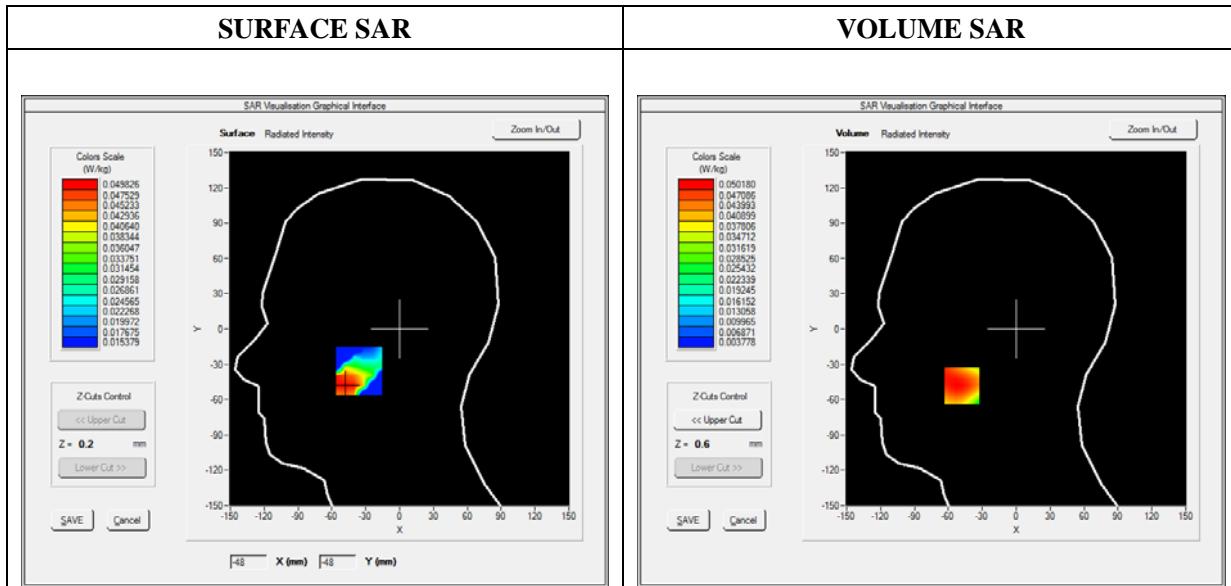
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

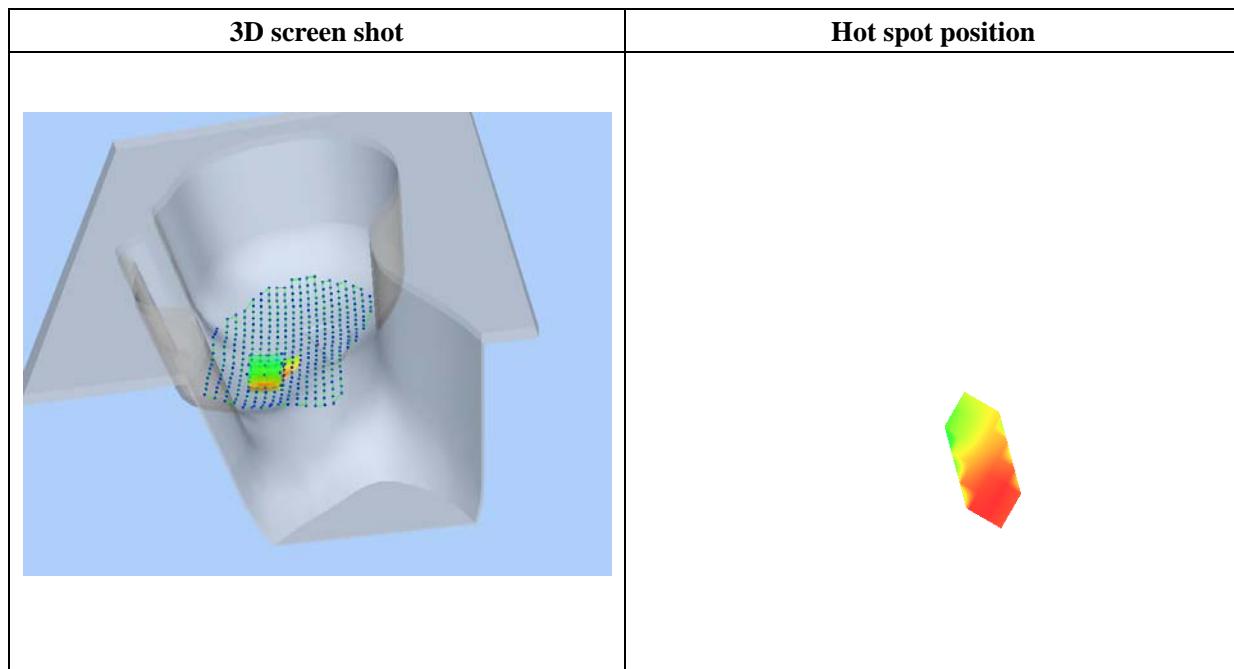
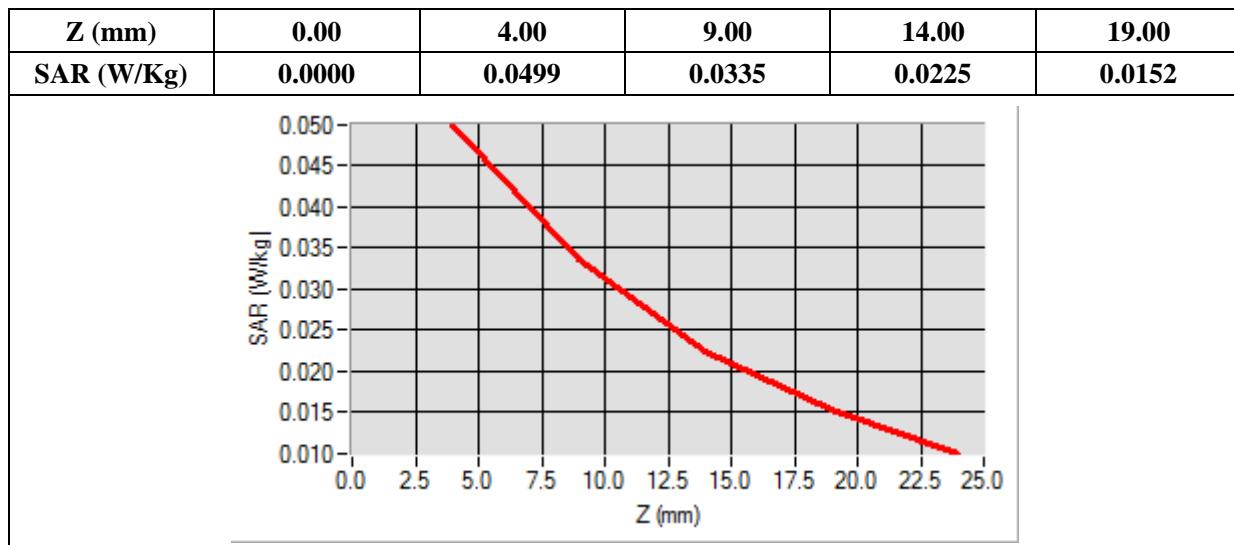
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1907.600000 |
| 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=-48.00, Y=-48.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.031151 |
| SAR 1g (W/Kg) | 0.048188 |



MEASUREMENT 27

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

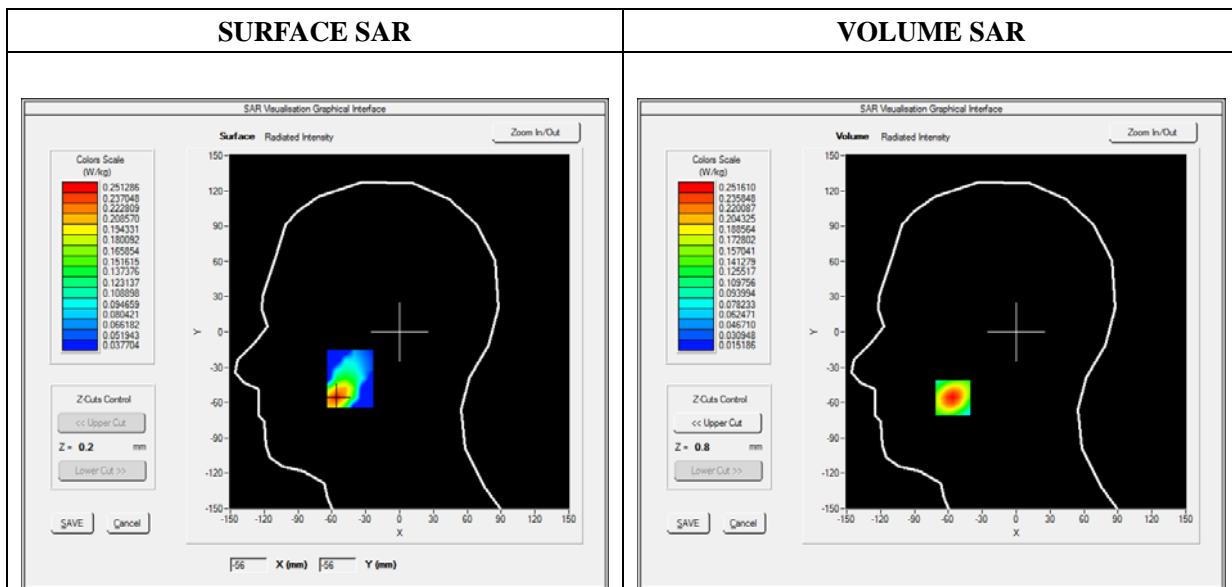
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

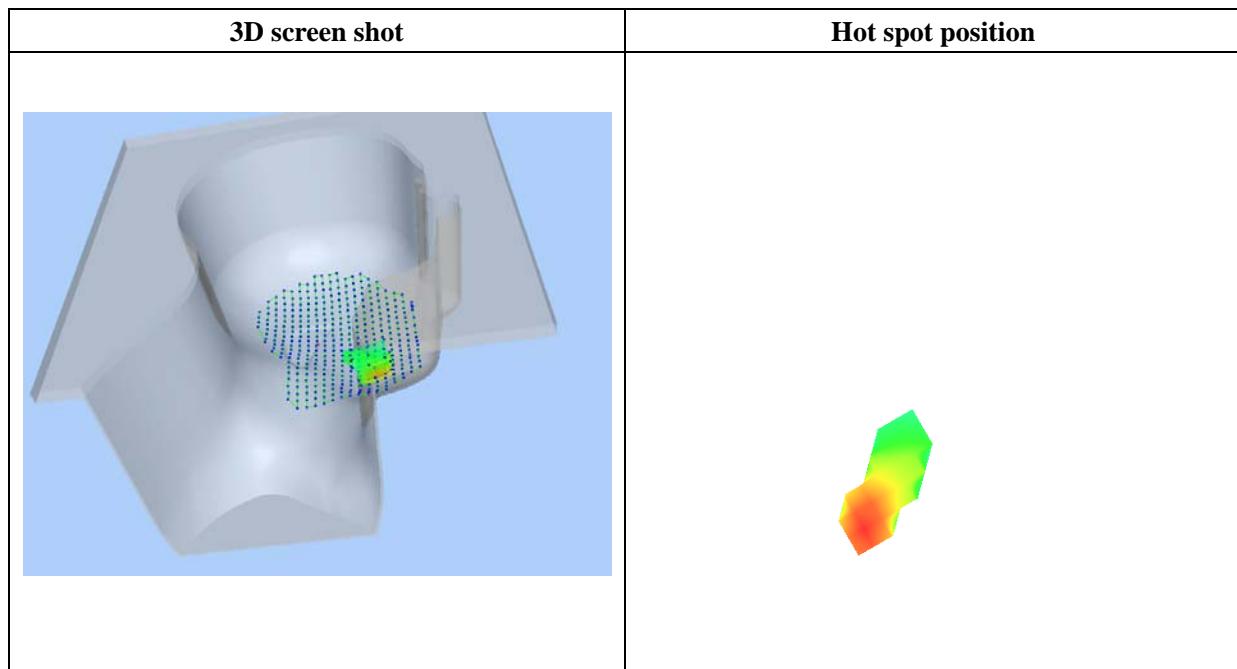
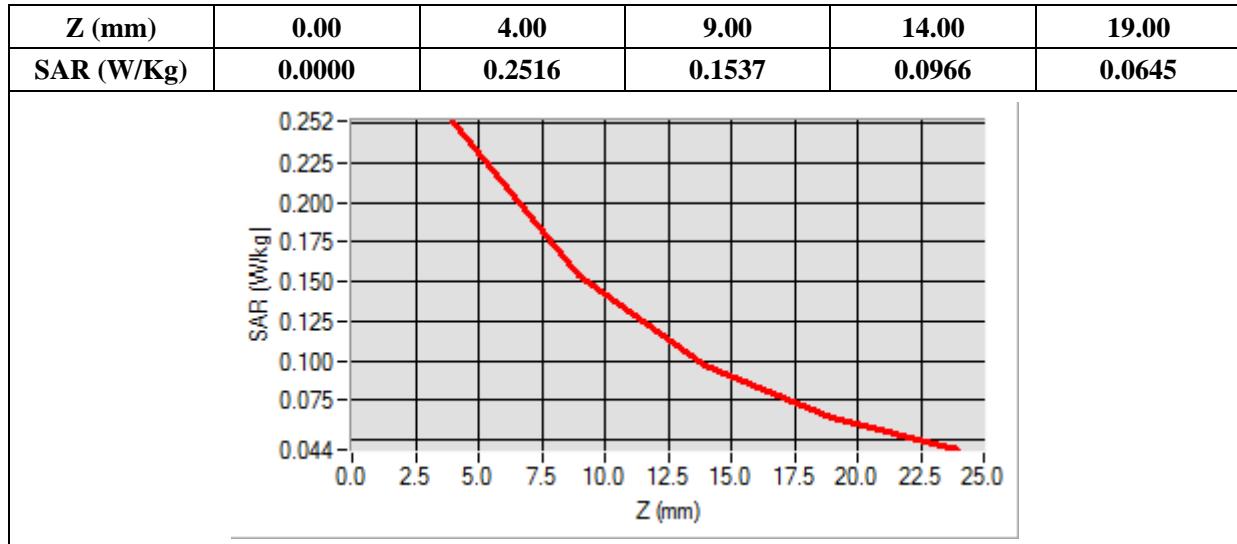
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1907.600000 |
| 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=-56.00, Y=-56.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.133653 |
| SAR 1g (W/Kg) | 0.231472 |



MEASUREMENT 28

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

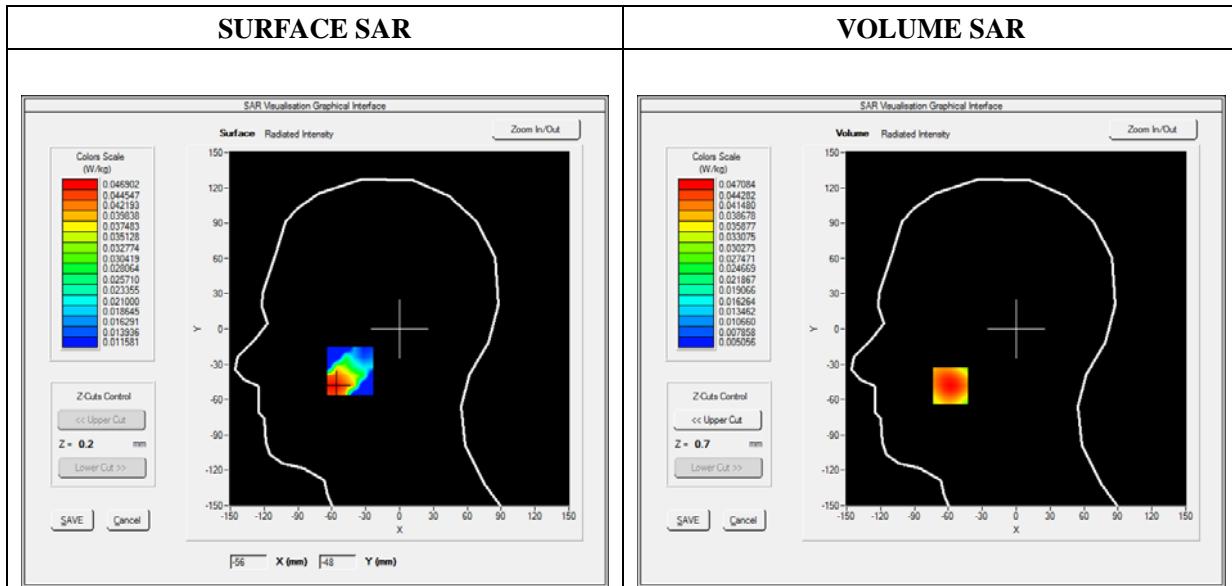
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.35; Calibrated: 06/03/2015

A. Experimental conditions

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

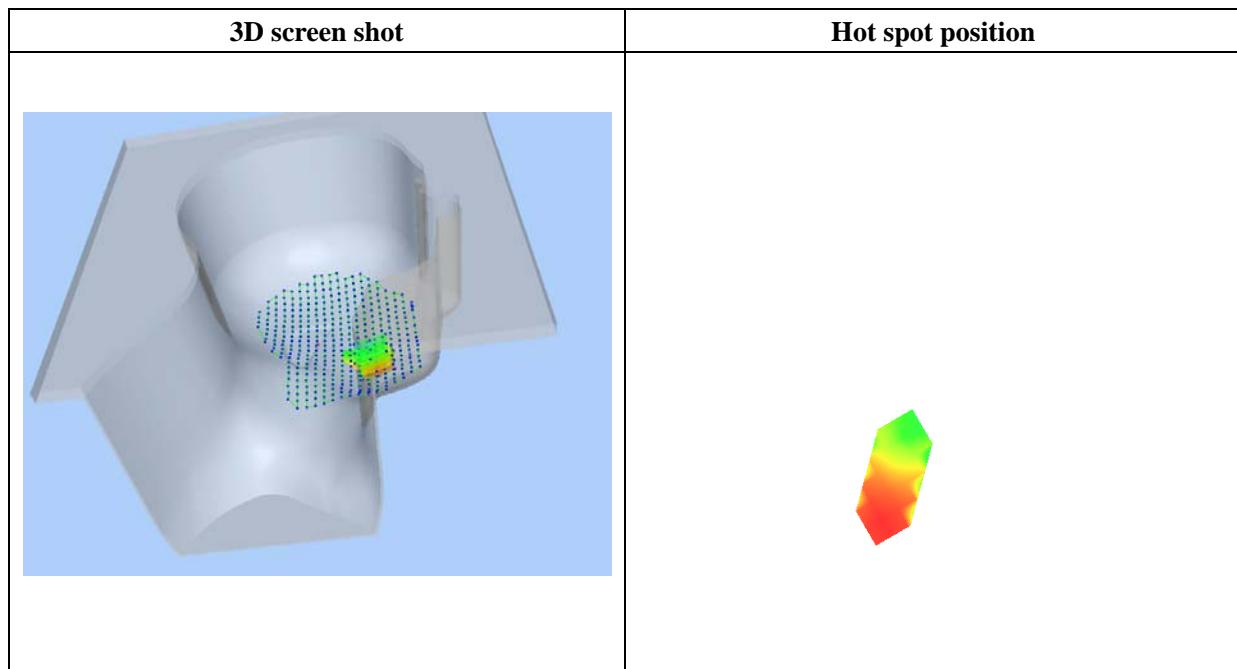
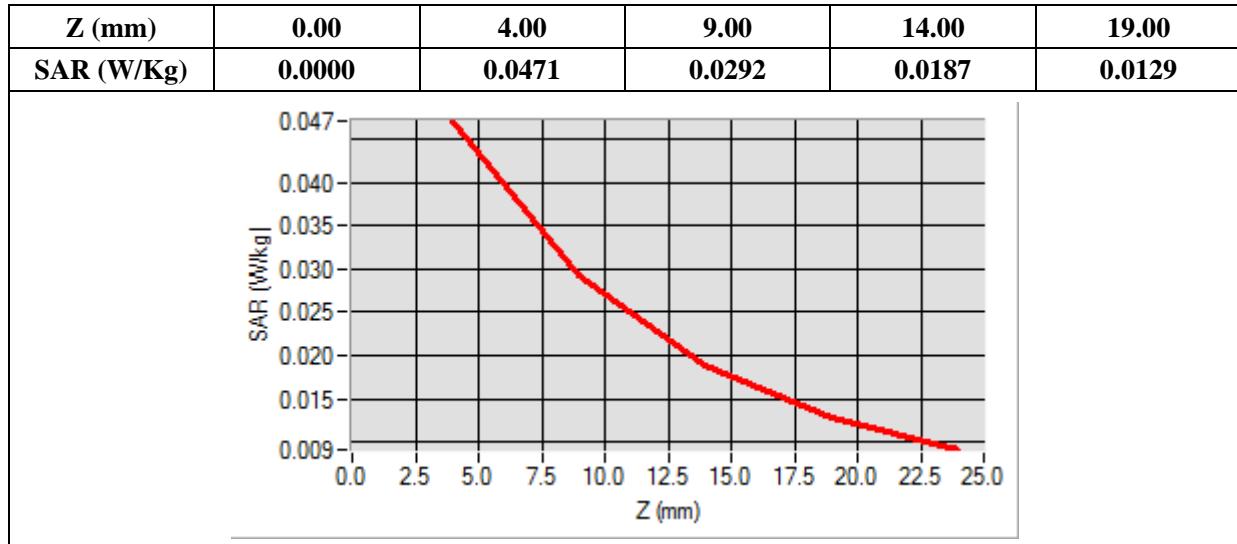
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1907.600000 |
| 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=-58.00, Y=-48.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.028850 |
| SAR 1g (W/Kg) | 0.044843 |



MEASUREMENT 29

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

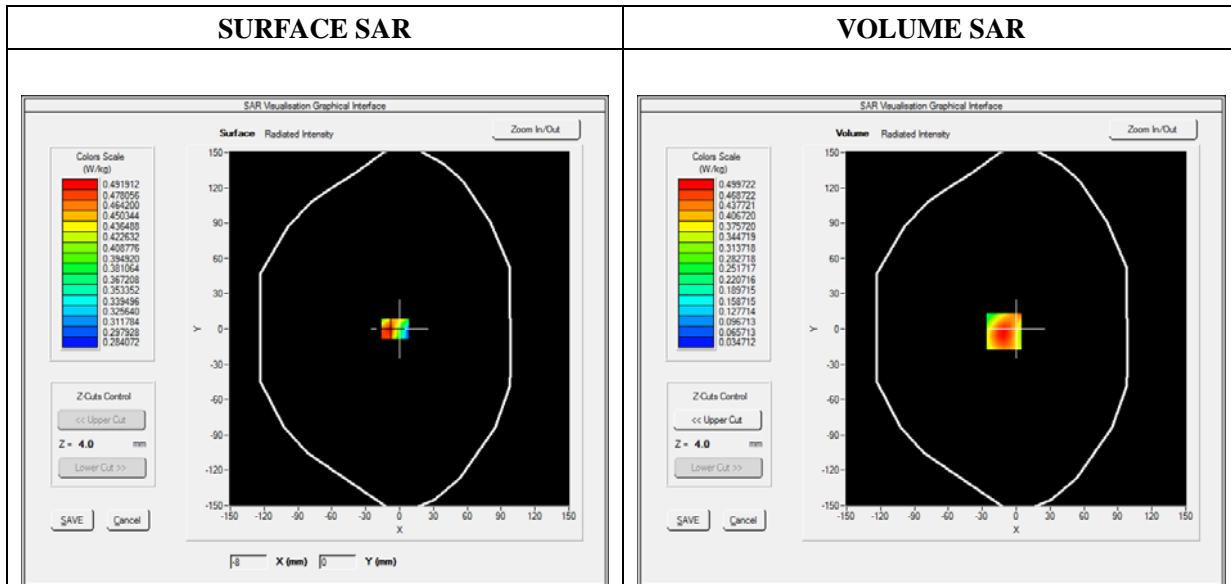
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

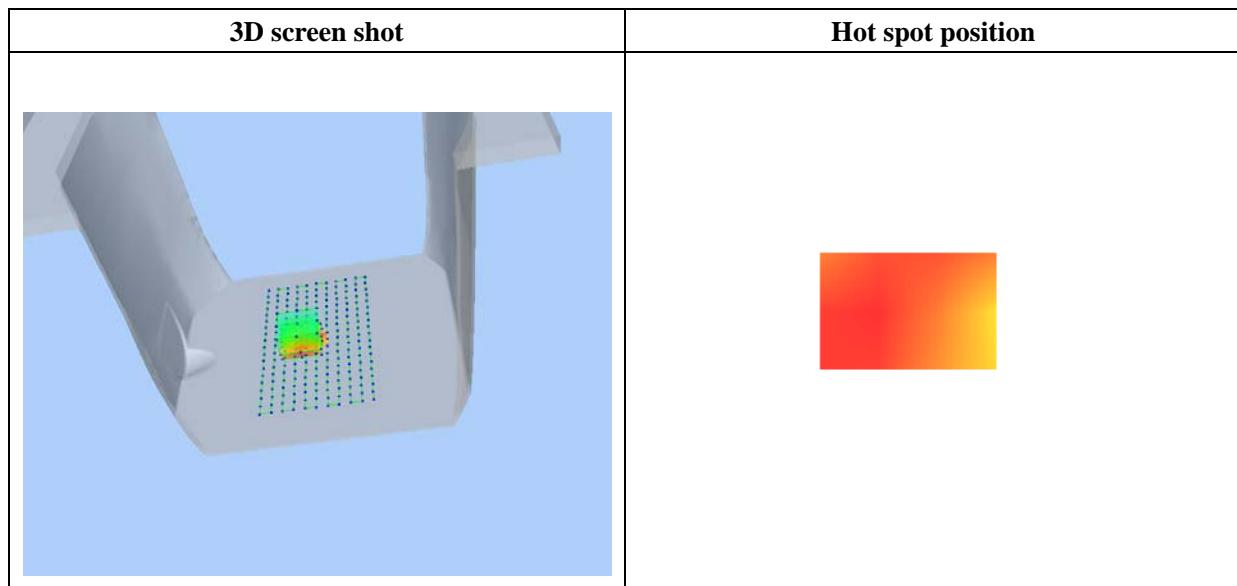
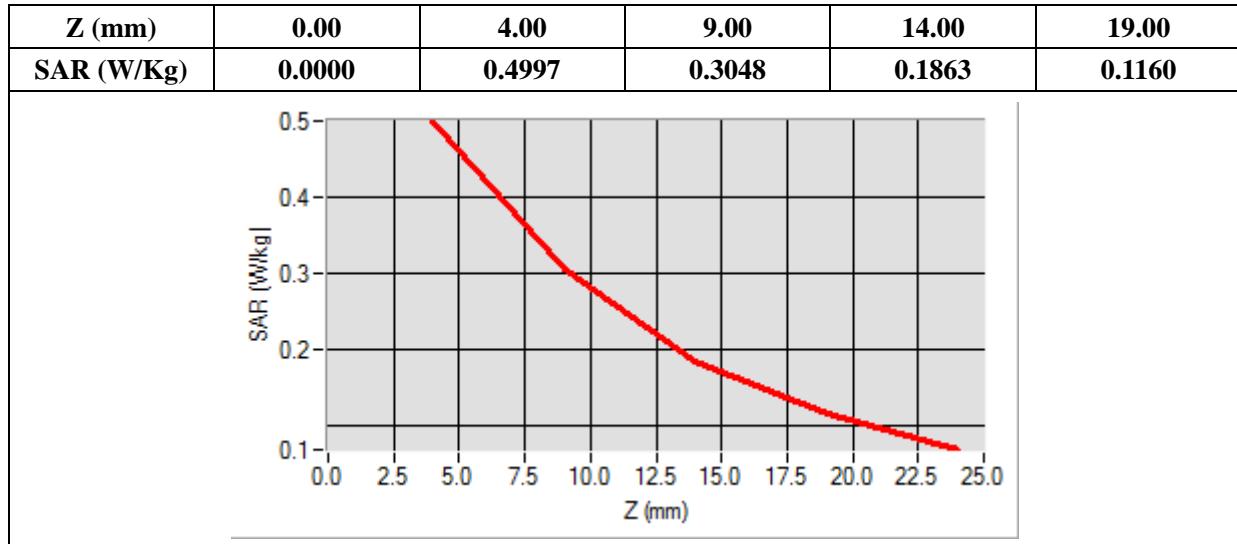
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1907.600000 |
| 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=-11.00, Y=-2.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.280794 |
| SAR 1g (W/Kg) | 0.470133 |



MEASUREMENT 30

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

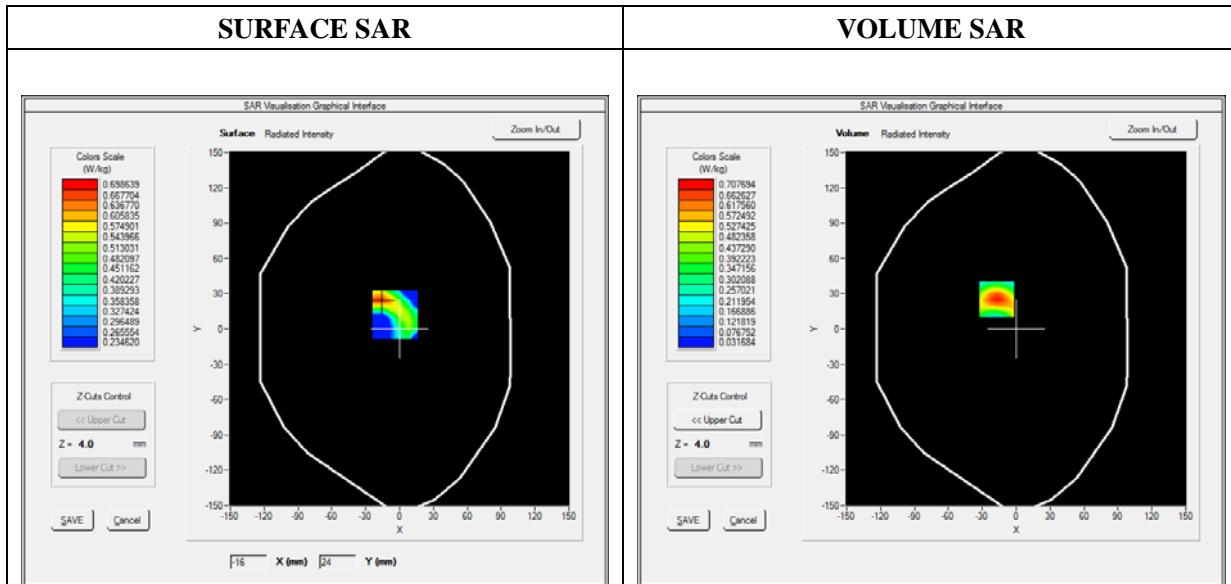
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

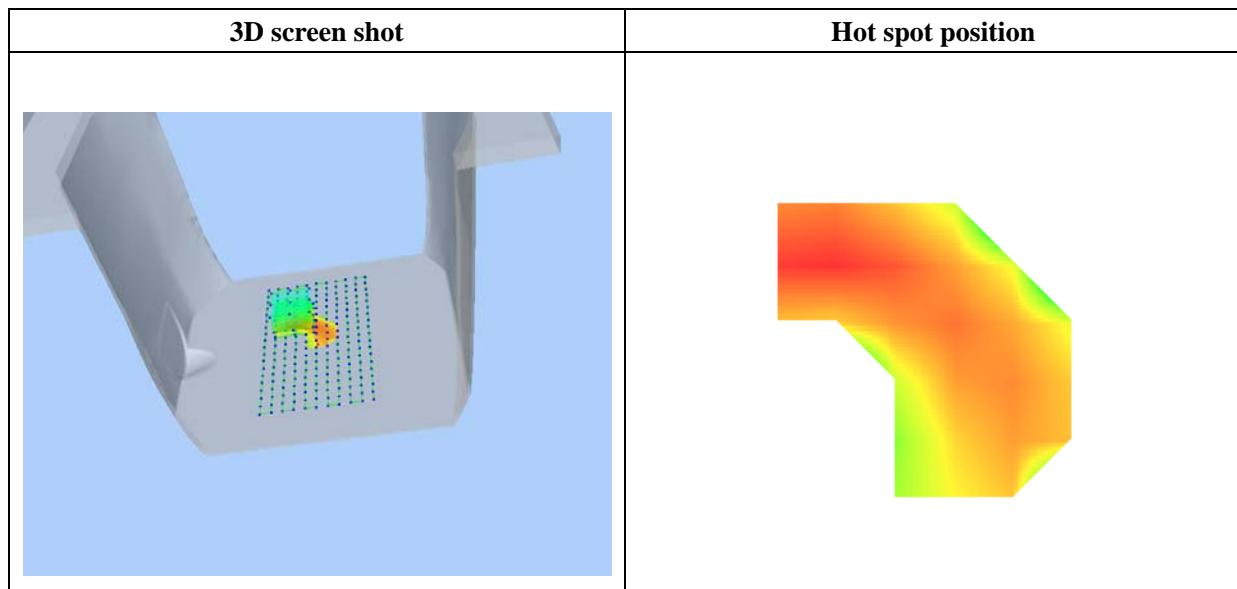
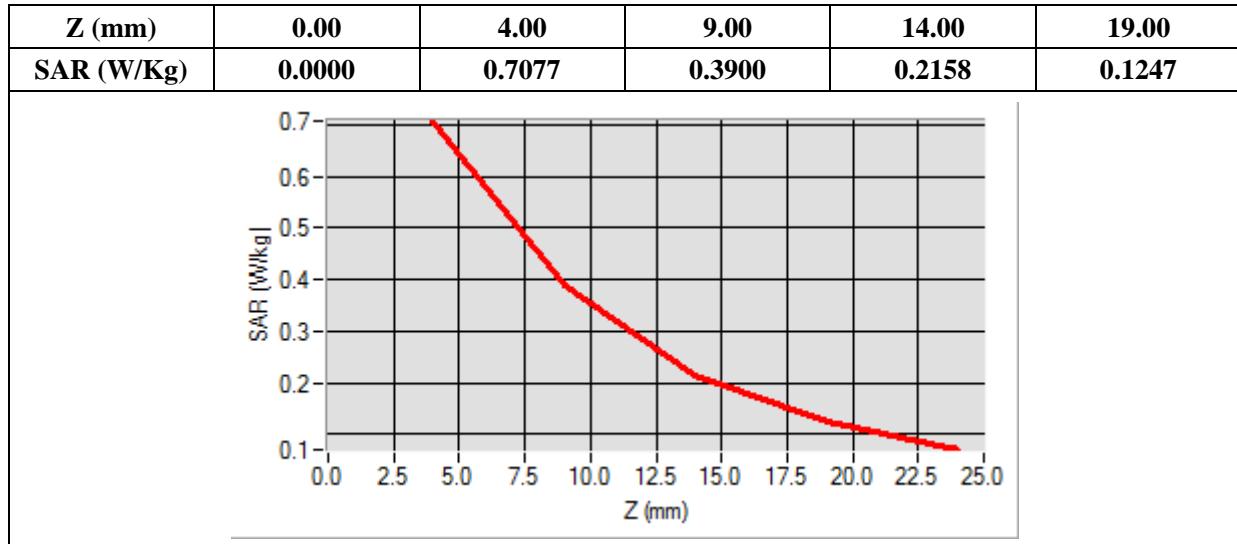
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1907.600000 |
| 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=-17.00, Y=25.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.340380 |
| SAR 1g (W/Kg) | 0.643825 |



MEASUREMENT 31

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

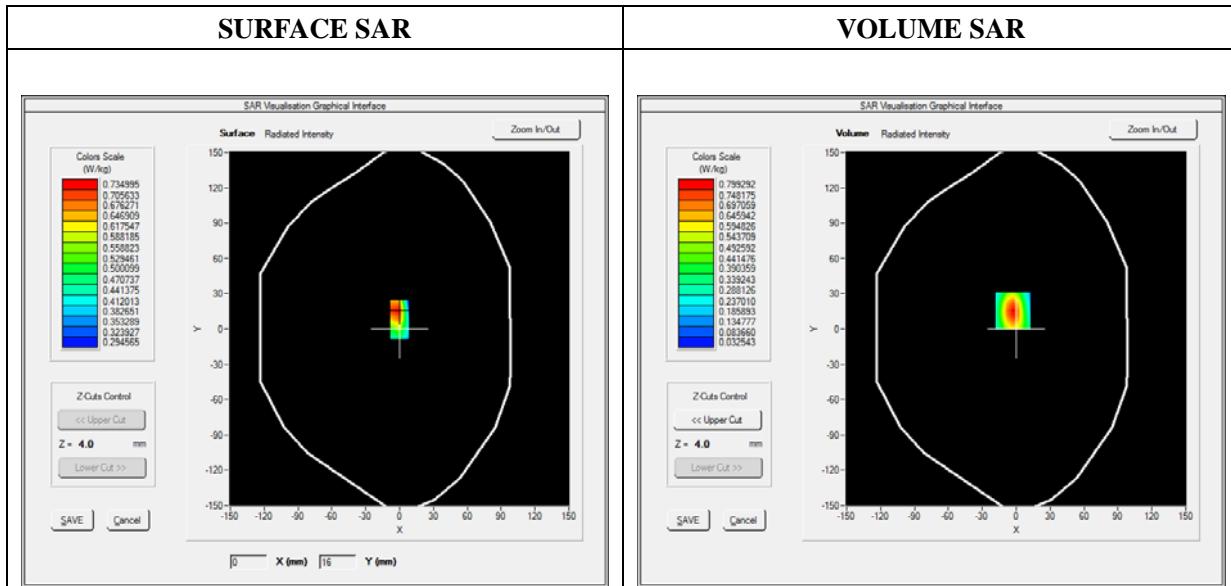
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

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 |

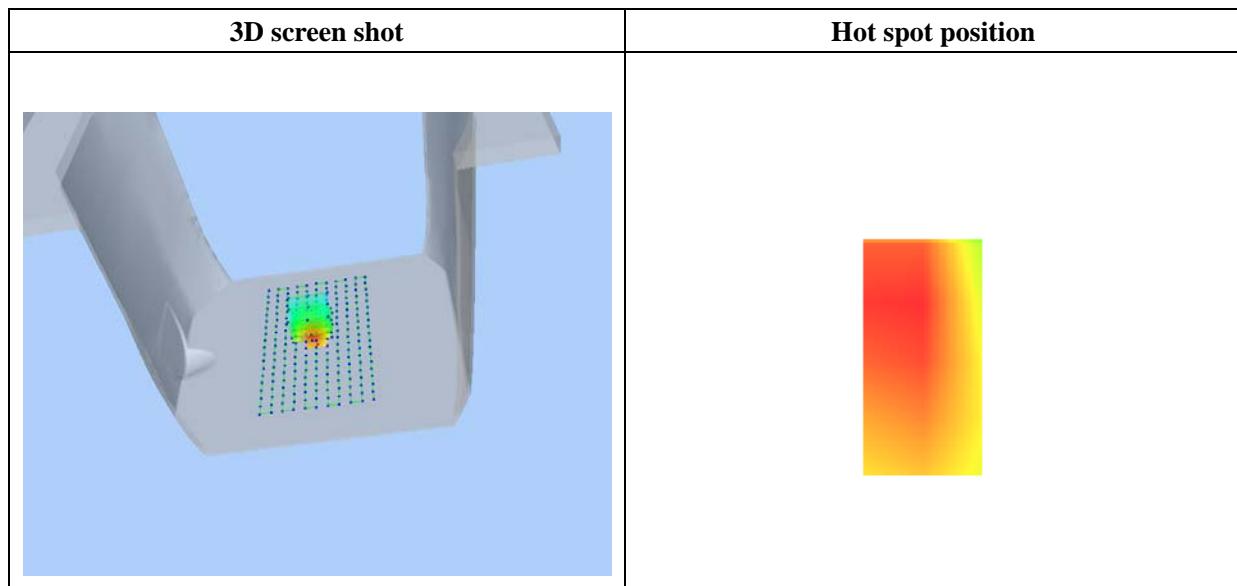
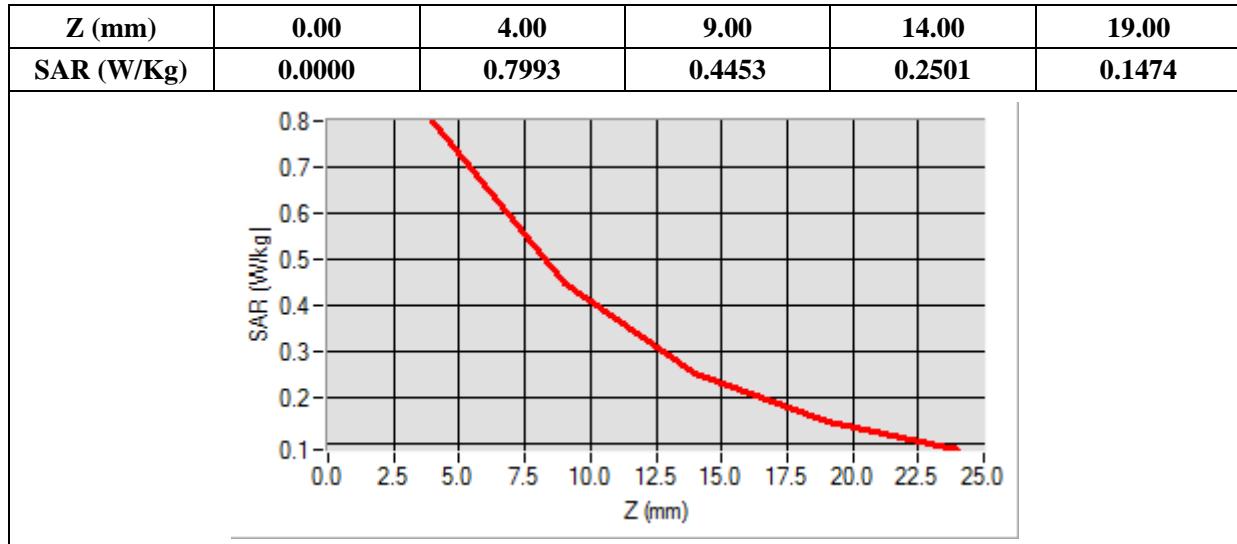
B. SAR Measurement Results

| | |
|--|-------------|
| 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=-3.00, Y=16.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.378820 |
| SAR 1g (W/Kg) | 0.721592 |



MEASUREMENT 32

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

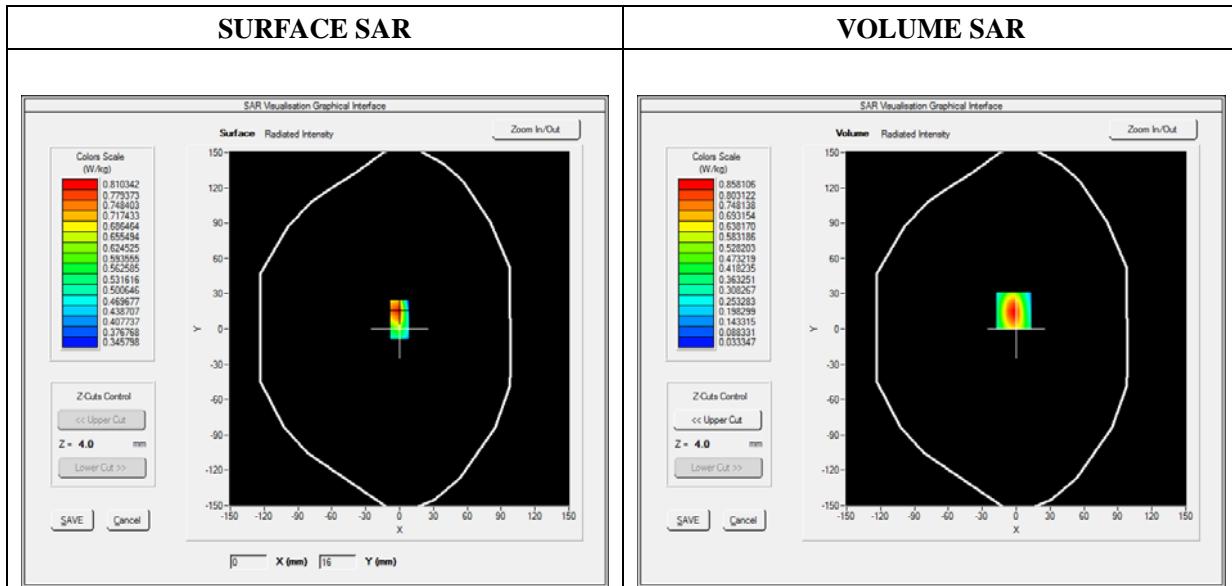
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

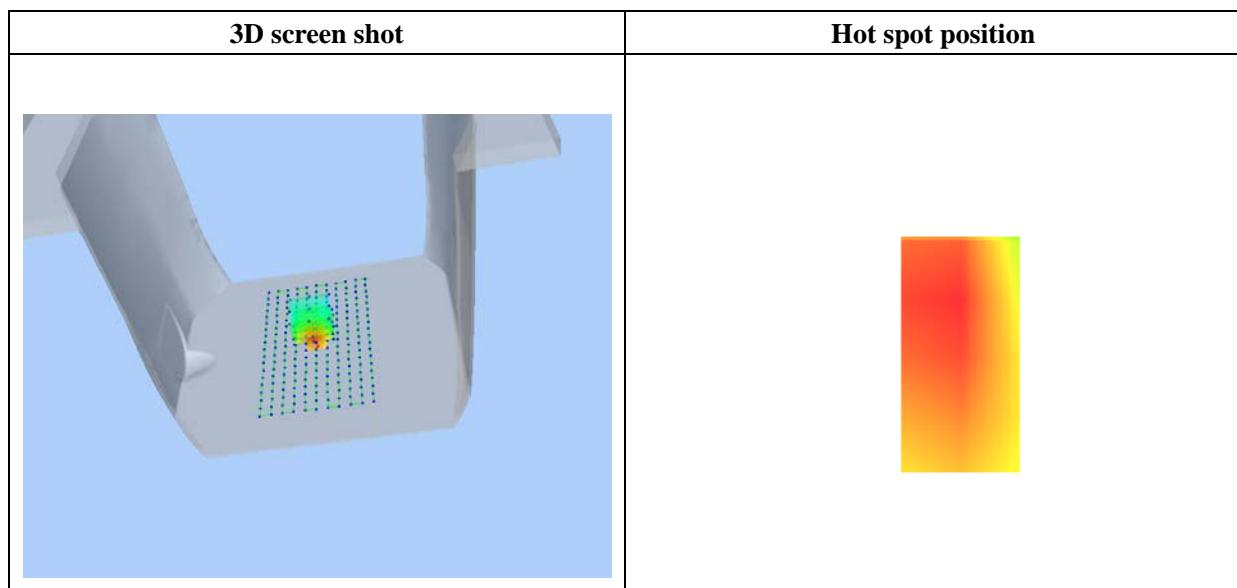
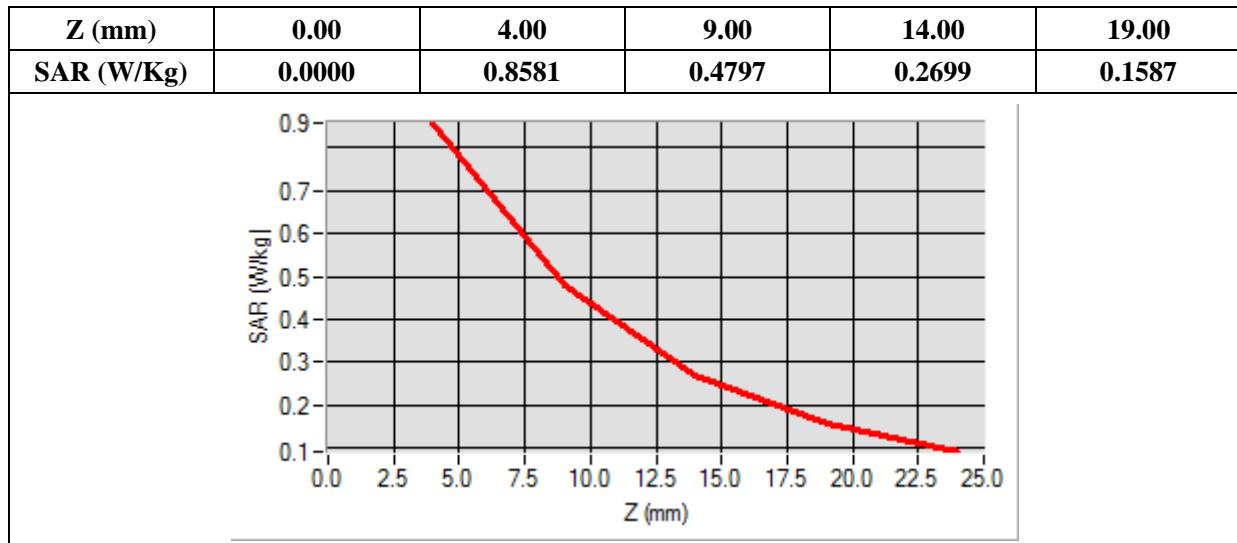
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1880.000000 |
| Relative Permittivity (real part) | 52.420415 |
| Conductivity (S/m) | 1.501966 |
| Power Variation (%) | 1.546257 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=-2.00, Y=16.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.410922 |
| SAR 1g (W/Kg) | 0.781248 |



MEASUREMENT 33

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

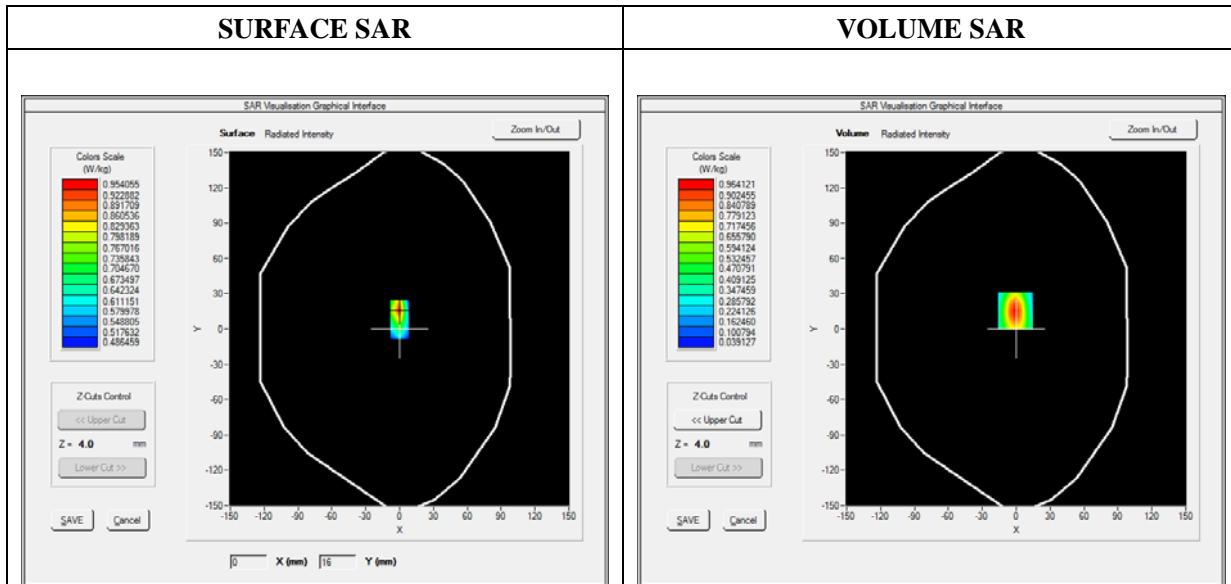
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

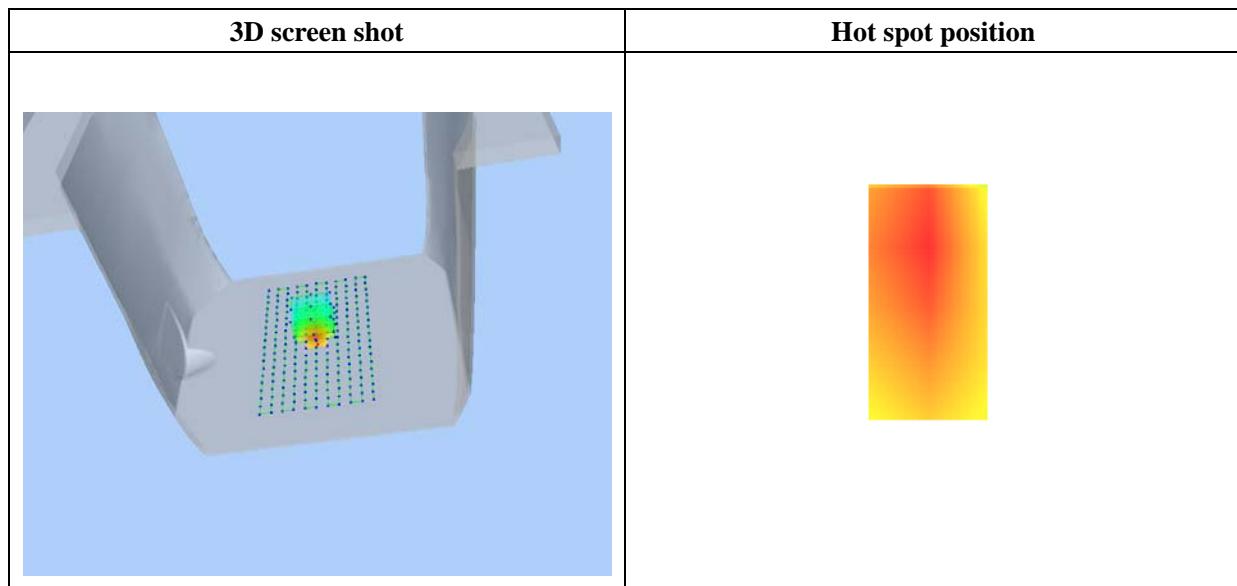
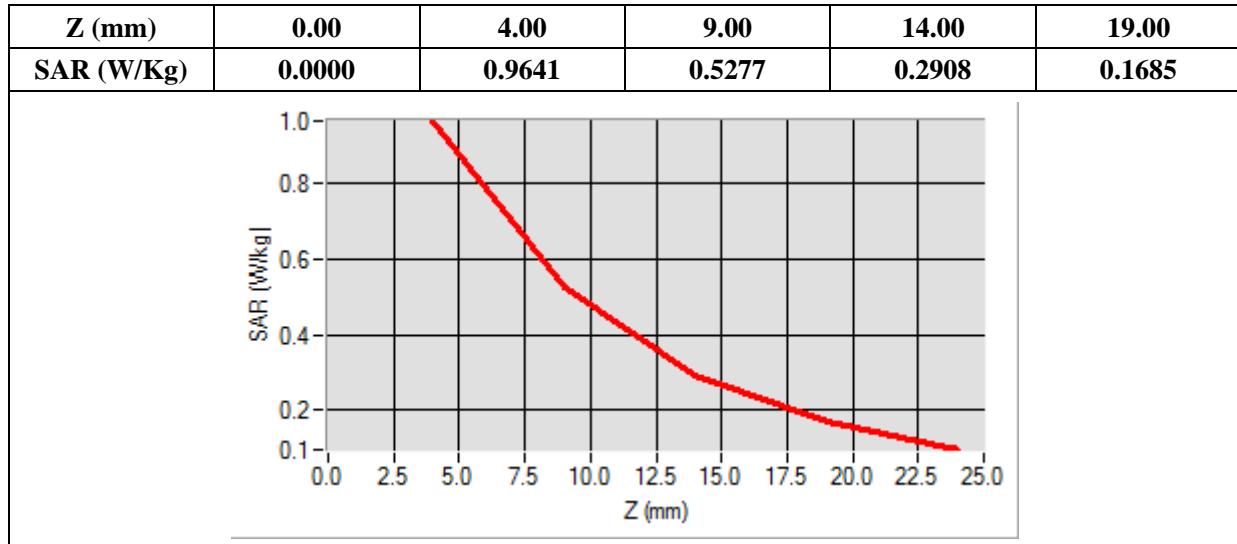
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1907.600000 |
| Relative Permittivity (real part) | 52.420415 |
| Conductivity (S/m) | 1.501966 |
| Power Variation (%) | 1.546235 |
| Ambient Temperature | 21.1 |
| Liquid Temperature | 21.3 |



Maximum location: X=-1.00, Y=16.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.453267 |
| SAR 1g (W/Kg) | 0.870970 |



MEASUREMENT 34

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

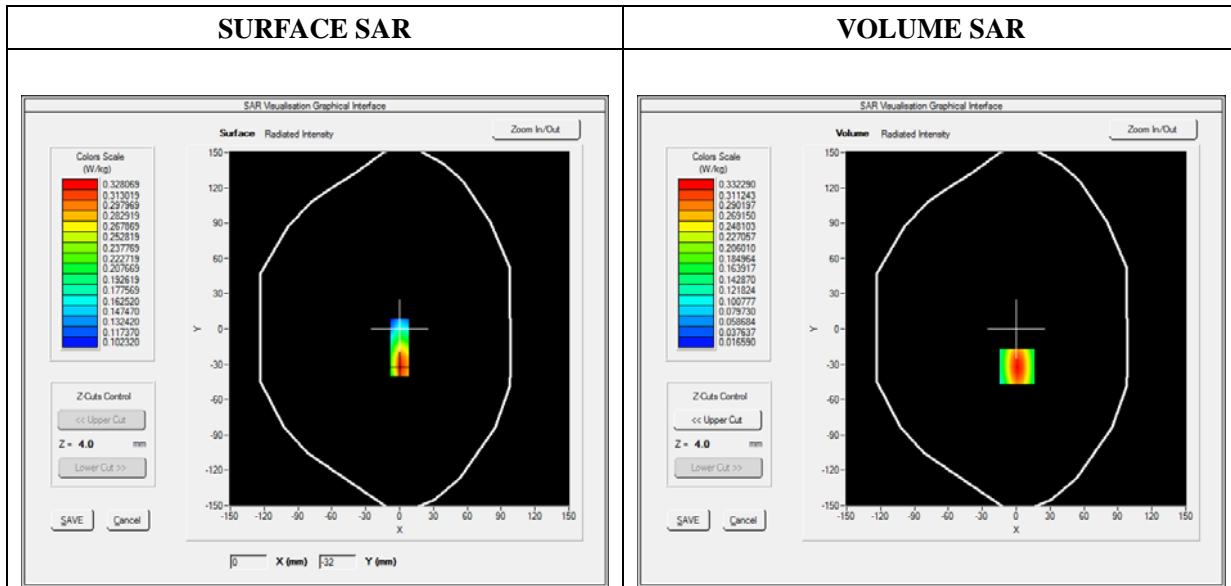
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

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

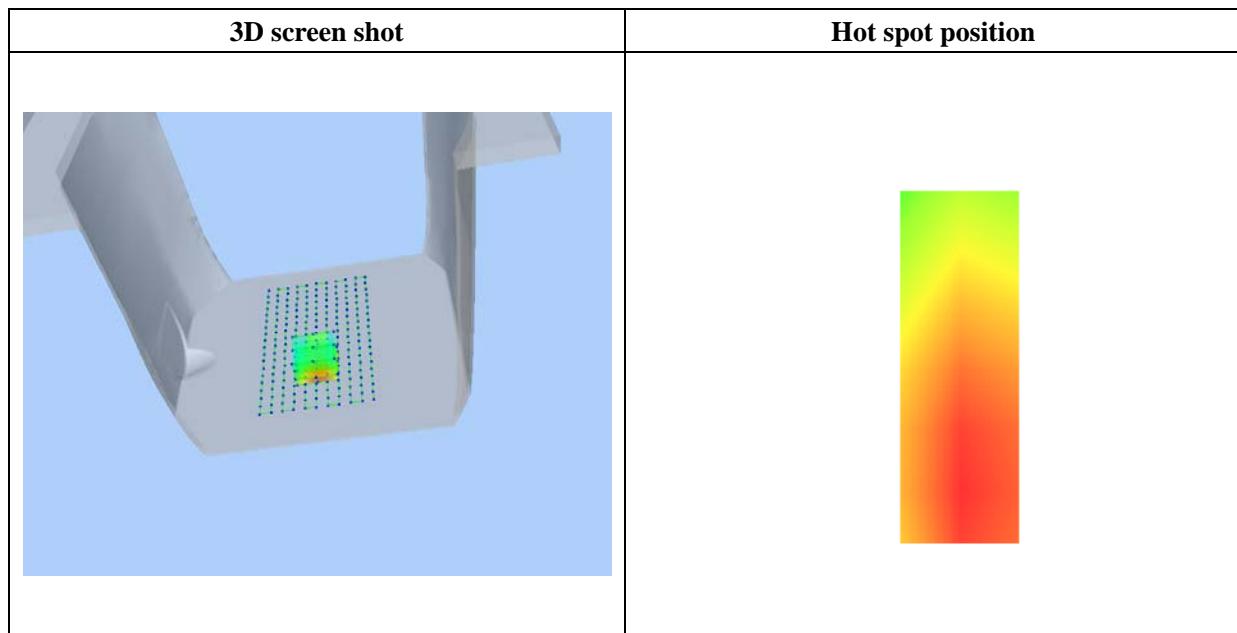
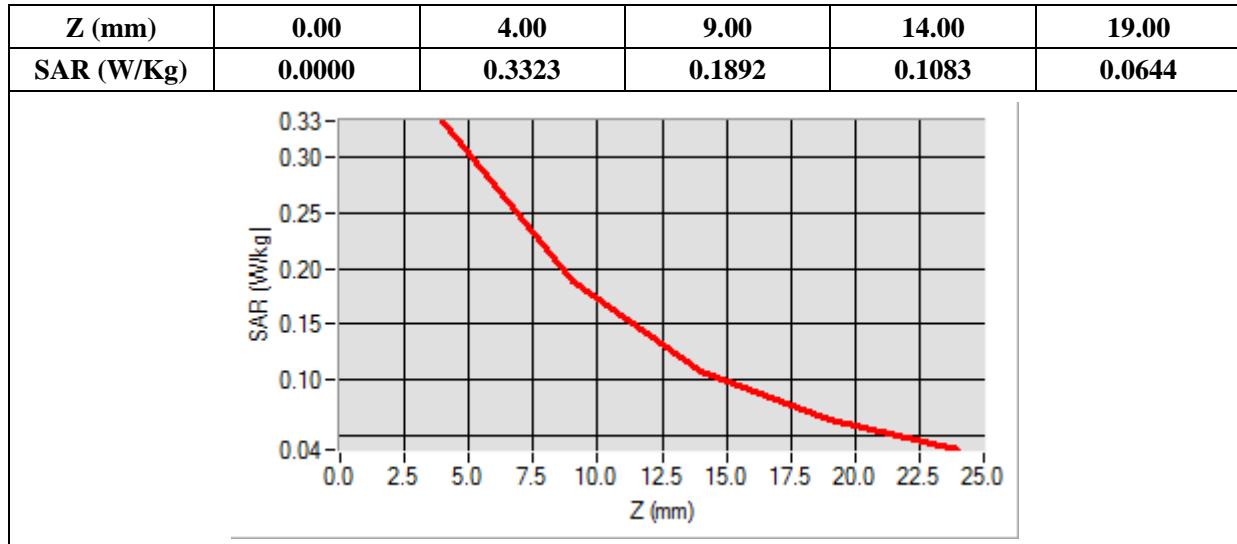
B. SAR Measurement Results

| | |
|--|-------------|
| Frequency (MHz) | 1907.600000 |
| 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=1.00, Y=-32.00

| | |
|-----------------------|-----------------|
| SAR 10g (W/Kg) | 0.170325 |
| SAR 1g (W/Kg) | 0.307217 |



MEASUREMENT 35

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

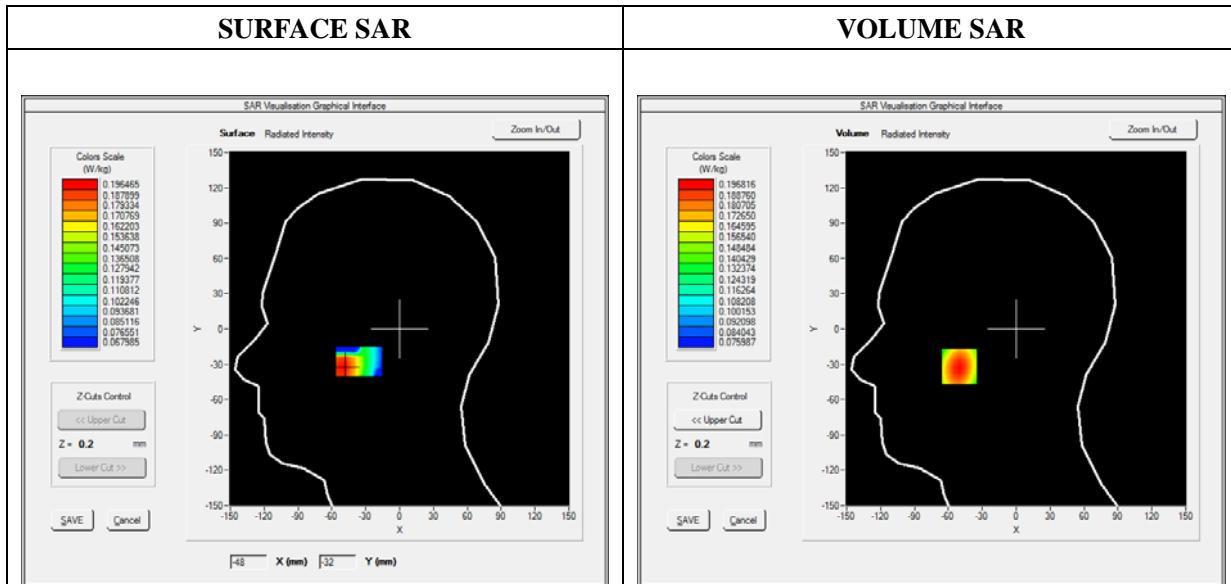
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

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 |

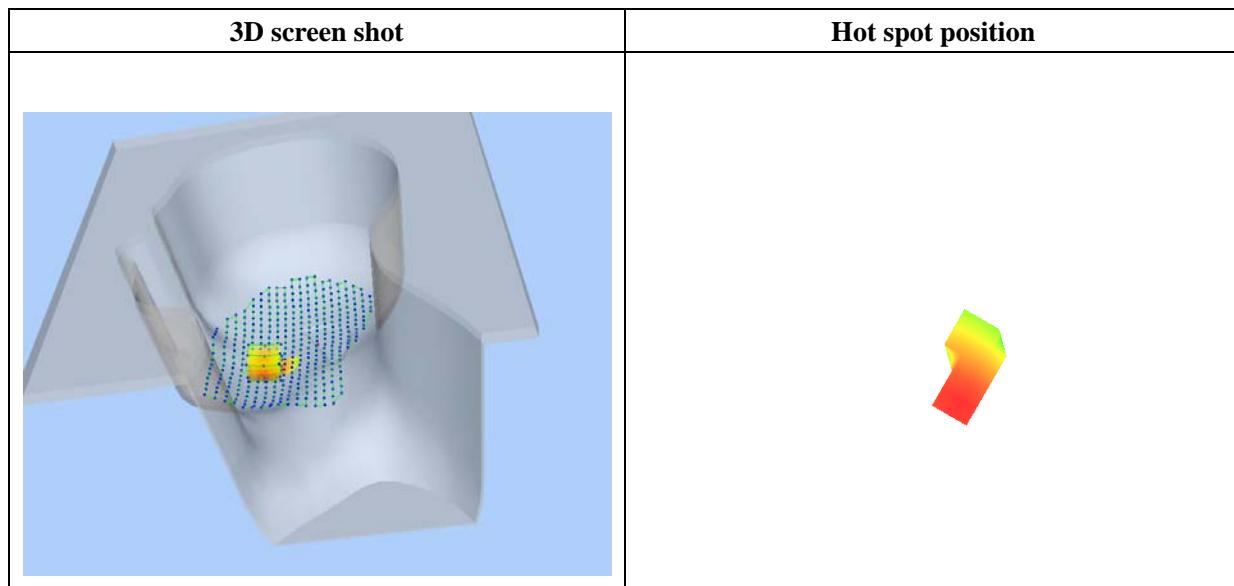
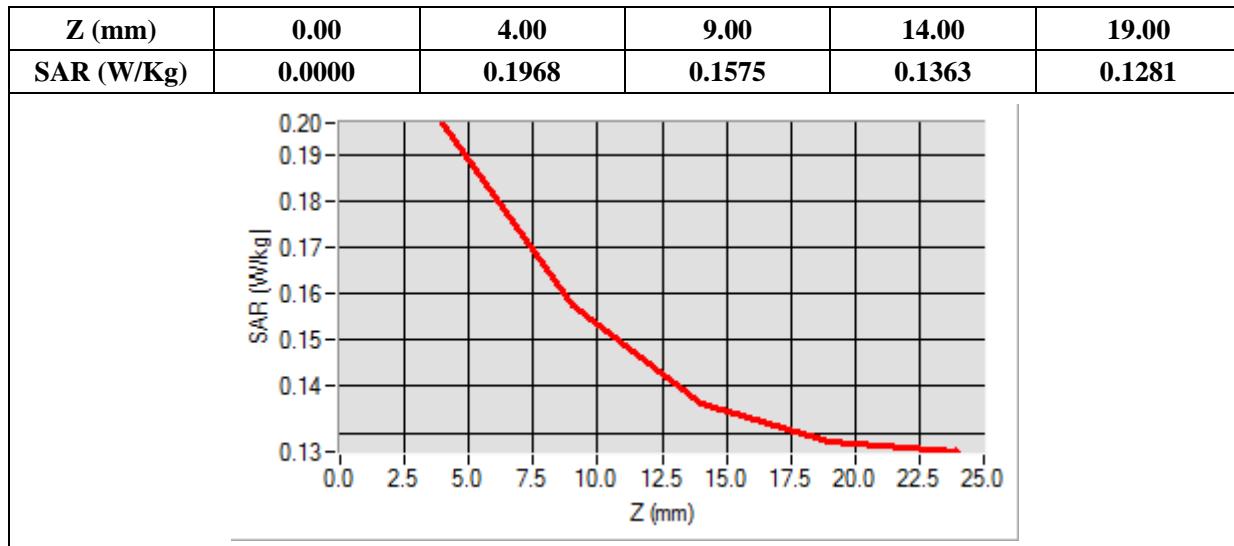
B. SAR Measurement Results

| | |
|--|------------|
| 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=-50.00, Y=-32.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.150928 |
| SAR 1g (W/Kg) | 0.189902 |



MEASUREMENT 36

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

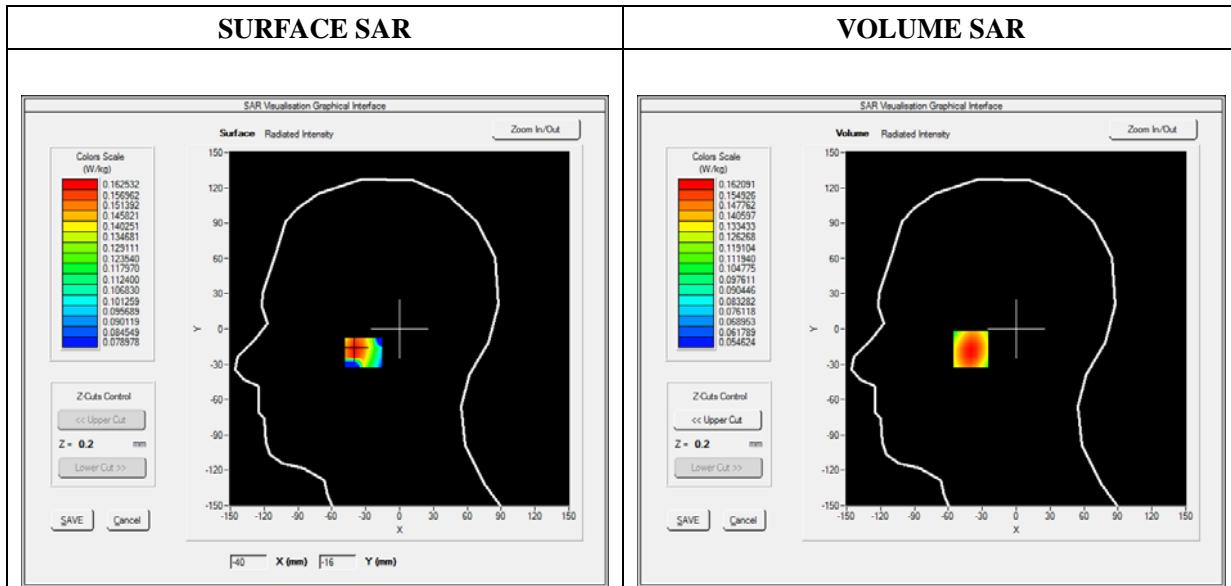
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

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 |

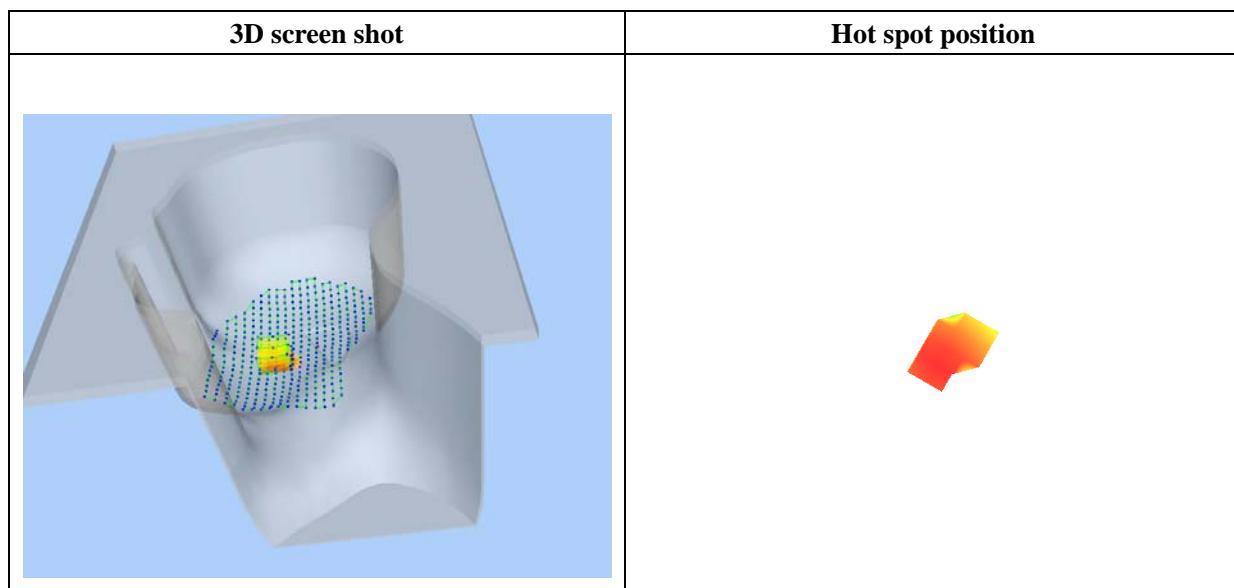
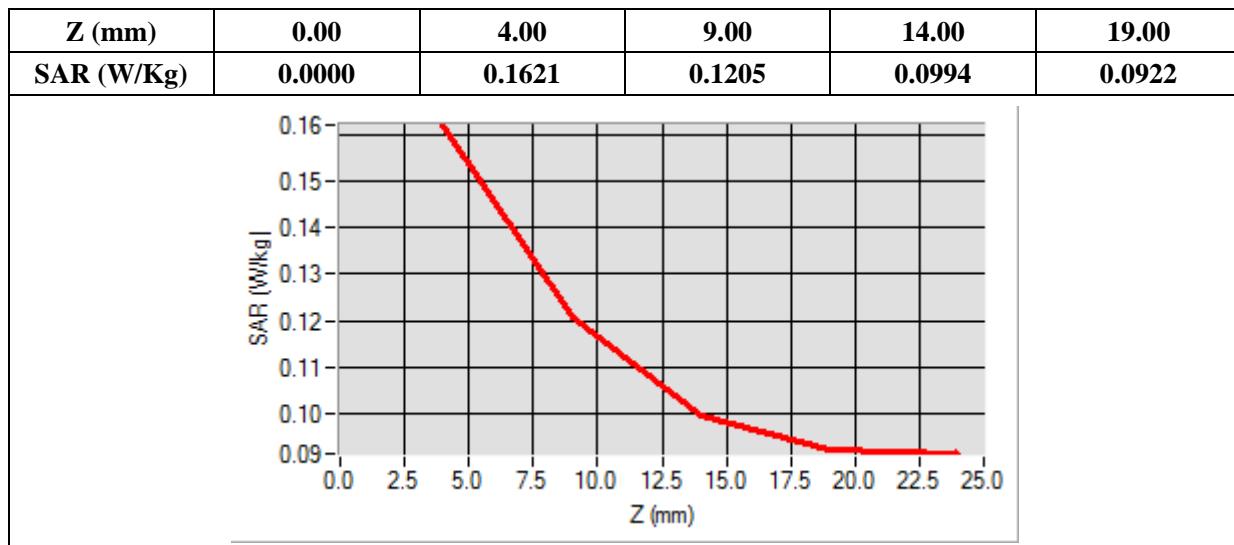
B. SAR Measurement Results

| | |
|--|------------|
| 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=-40.00, Y=-17.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.117984 |
| SAR 1g (W/Kg) | 0.155999 |



MEASUREMENT 37

Type: Phone measurement (Complete)

Date of measurement: 09/28/2015

Measurement duration: 12 minutes 3 seconds

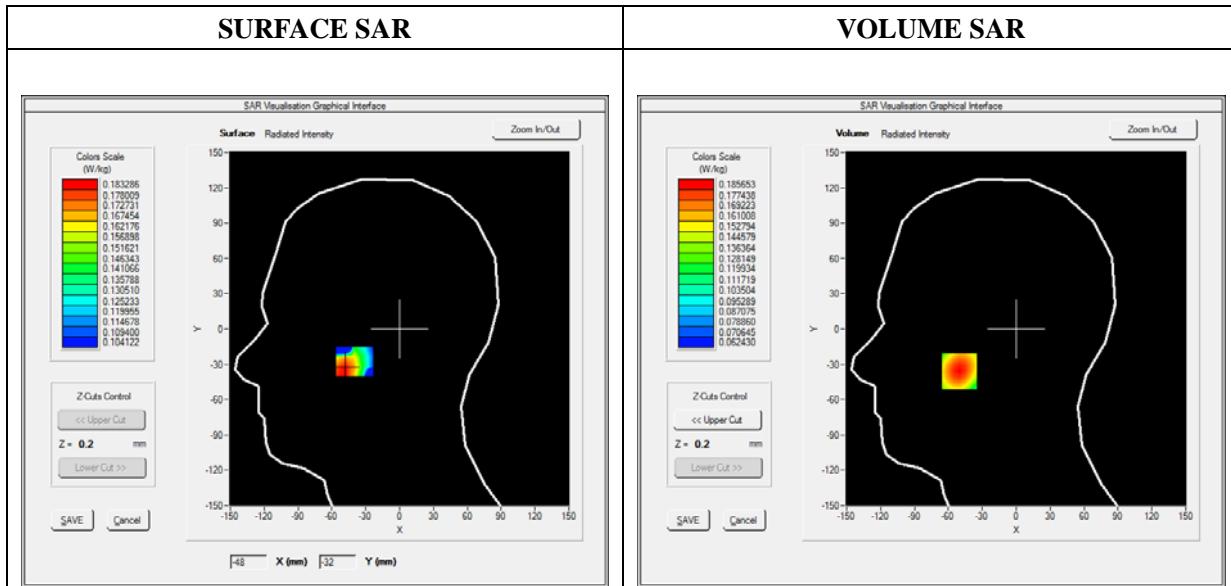
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.93; Calibrated: 06/03/2015

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=-50.00, Y=-36.00

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.144576 |
| SAR 1g (W/Kg) | 0.179437 |

