
SAR Test Report

Report No.: AGC01813161203EH01

PRODUCT DESIGNATION : 3G Dual-SIM Smartphone
BRAND NAME : vonino
MODEL NAME : Volt S
CLIENT : Vonino EElectronics LTD.
DATE OF ISSUE : Dec. 30,2016
STANDARD(S) : EN 50360:2001+A1:2012; EN 62209-1: 2006; IEC 62209-1: 2005;
EN 62209-2:2010; IEC 62209-2:2010; EN 50566:2013;
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 30,2016	Valid	Original Report

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Test Report Certification

Applicant Name	Vonino EElectronics LTD
Applicant Address	Miramar Tower 10F- No.1010, 132 Nathan Road, Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer Name	Gui zhou Fortuneship Technology Co., Ltd.
Manufacturer Address	No. 4 Plant, High-tech Industrial Park, Xinpu Economic Development Zone) Jingkai Road, Xinpu Jingkai District, Xinpu New District, Zunyi City, Guizhou Province, P. R. China
Product Designation	3G Dual-SIM Smartphone
Brand Name	vonino
Model Name	Volt S
Different Description	N/A
EUT Voltage	DC3.8V by battery
Applicable Standard	EN 50360:2001+A1:2012; EN 62209-1: 2006; IEC 62209-1: 2005; EN 62209-2:2010; IEC 62209-2:2010; EN 50566:2013;
Test Date	Dec. 15,2016 to Dec. 20,2016
Performed Location	Attestation of Global Compliance(Shenzhen) Co., Ltd. 2 F, Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China
Report Template	AGCRT-EC-3G/SAR (2016-01-01)

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1. SUMMARY OF MAXIMUM SAR VALUE

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

Frequency Band	Highest Reported 10g-SAR(W/Kg)		SAR Test Limit (W/Kg)
	Head	Body-worn(with 5mm separation)	
GSM 900	0.492	0.995	2.0
DCS 1800	0.216	1.089	
WCDMA Band I	0.357	1.196	
WCDMA Band VIII	0.477	0.780	
WIFI 2.4G	0.620	0.223	
Simultaneous Reported SAR	1.403		
SAR Test Result	PASS		

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (2.0W/Kg).

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	3G Dual-SIM Smartphone
Test Model	Volt S
Hardware Version	ZH066-MB-V3.0
Software Version	N/A
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GSM and GPRS	
Support Band	<input checked="" type="checkbox"/> GSM 850 <input checked="" type="checkbox"/> GSM 900 <input checked="" type="checkbox"/> DCS 1800 <input checked="" type="checkbox"/> PCS 1900
GPRS Type	Class B
GPRS Class	Class 12(1Tx+4Rx, 2Tx+3Rx, 3Tx+2Rx, 4Tx+1Rx)
TX Frequency Range	GSM900:880-915MHz ; DCS1800:1710-1785MHz
RX Frequency Range	GSM900:925-960MHz ; DCS1800:1805-1880MHz
Release Version	R99
Type of modulation	GMSK for GSM/GPRS
Antenna Gain	1.0dBi
Max. Average Power	GSM900:31.45dBm; DCS1800:28.58dBm
Bluetooth	
Bluetooth Version	<input type="checkbox"/> V2.0 <input type="checkbox"/> V2.1 <input type="checkbox"/> V2.1+EDR <input checked="" type="checkbox"/> V3.0 <input type="checkbox"/> V3.0+HS <input checked="" type="checkbox"/> V4.0 <input type="checkbox"/> V4.1
Operation Frequency	2402~2480MHz
Type of modulation	<input checked="" type="checkbox"/> GFSK <input checked="" type="checkbox"/> π/4-DQPSK <input checked="" type="checkbox"/> 8-DPSK
EIRP	-1.64dBm
Antenna Gain	1.0dBi

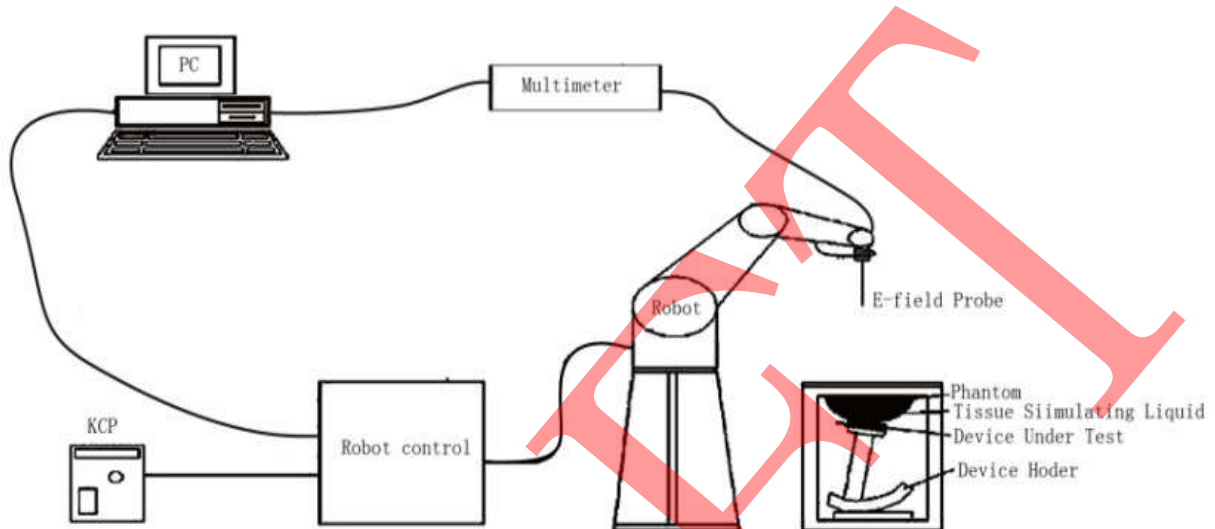
EUT Description(Continue)

WCDMA	
Support Band	<input checked="" type="checkbox"/> UMTS FDD Band I <input checked="" type="checkbox"/> UMTS FDD Band VIII <input type="checkbox"/> UMTS FDD Band II <input type="checkbox"/> UMTS FDD Band V
HS Type	HSPA(HSUPA/HSDPA)
TX Frequency Range	FDD Band I : 1920-1980MHz; FDD Band VIII : 880-915MHz
RX Frequency Range	FDD Band I : 2110-2170MHz; FDD Band VIII : 925-960MHz
Release Version	Rel-6
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	1.0dBi
Max. Average Power	Band I:23.85dBm; Band VIII:23.56dBm
WIFI	
WIFI Specification	<input type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(20) <input checked="" type="checkbox"/> 802.11n(40)
Operation Frequency	2412~2472MHz
EIRP	11b:13.98dBm,11g:12.79dBm,11n(20):12.92dBm,11n(40):10.61dBm
Antenna Gain	1.0dBi
Li-ion Battery	
Brand Name	vonino
Model Name	VBSVS-01
Manufacturer Name	Shenzhen Season Energy Co.,Ltd
Manufacturer Address	NO.101, Block B,Tongle Scientific Park, Banlong 5th Street, Longgang Shenzhen City, Guangdong Province
Capacitance	4000mAh
Rated Voltage/ Charging Voltage	DC3.8V/ DC4.35V

Note: The sample used for testing is end product.

3. SAR MEASUREMENT SYSTEM

3.1. The SATIMO system used for performing compliance tests consists of following items



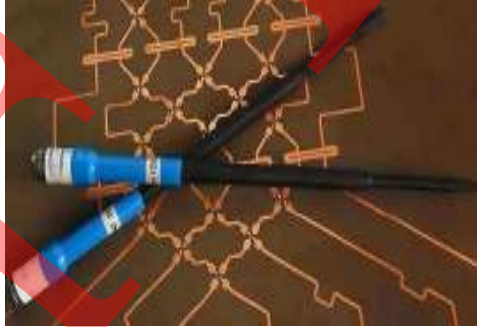
The COMOSAR system for performing compliance tests consists of the following items:

- The PC. It controls most of the bench devices and stores measurement data. A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- The Keithley multimeter measures each probe dipole voltages.
- The SAM phantom simulates a human head. The measurement of the electric field is made inside the phantom.
- The liquids simulate the dielectric properties of the human head tissues.
- The network emulator controls the mobile phone under test.
- The validation dipoles are used to measure a reference SAR. They are used to periodically check the bench to make sure that there is no drift of the system characteristics over time.
- The phantom, the device holder and other accessories according to the targeted measurement.

3.2. COMOSAR E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SATIMO. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. SATIMO conducts the probe calibration in compliance with international and national standards (e.g. EN62209, IEC 62209, etc.) Under ISO17025. The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	SSE5	
Manufacture	MVG	
Identification No.	SN 14/16 EP308	
Frequency	0.3GHz-3.7GHz Linearity:±0.08dB(300MHz -3.7GHz)	
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.08dB	
Dimensions	Overall length:330mm Length of individual dipoles:4.5mm Maximum external diameter:8mm Probe Tip external diameter:5mm Distance between dipoles/ probe extremity:2.7mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 3 GHz with precision of better 30%.	

3.3. Robot

The COMOSAR system uses the KUKA robot from SATIMO SA (France). For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO is used.

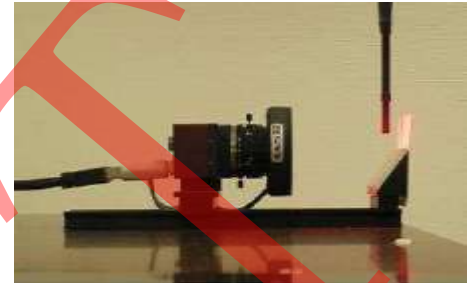
The XL robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller



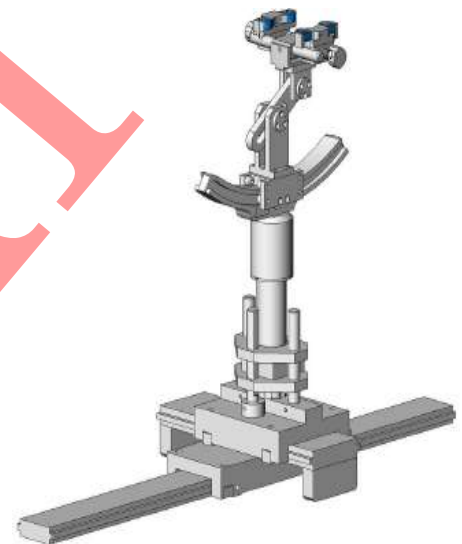
3.4. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



3.5. Device Holder

The COMOSAR device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR). Thus the device needs no repositioning when changing the angles. The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon_r = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



3.6. SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

- Left head
- Right head
- Flat phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in 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 occupational/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.

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 given mass density (ρ). The equation description is as below:

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

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

SAR can be obtained using either of the following equations:

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

$$SAR = c_h \left. \frac{dT}{dt} \right|_{t=0}$$

Where

SAR is the specific absorption rate in watts per kilogram;
 E is the r.m.s. value of the electric field strength in the tissue in volts per meter;
 σ is the conductivity of the tissue in siemens per metre;
 ρ is the density of the tissue in kilograms per cubic metre;
 c_h is the heat capacity of the tissue in joules per kilogram and Kelvin;

$\left. \frac{dT}{dt} \right|_{t=0}$ is the initial time derivative of temperature in the tissue in kelvins per second

4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties,

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in SATIMO software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in EN 50360 and IEC62209 standards, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

measure the SAR distribution within the phantom (area scan procedure). The SAR distribution is scanned along the inside surface of one side of the phantom head, at least for an area larger than the projection of the handset and antenna. The spatial grid step shall be less than 20 mm. The resolution accuracy can also be tested using the reference functions of 7.2.4. If surface scanning is used, then the distance between the geometrical centre of the probe dipoles and the inner surface of the phantom shall be 8,0 mm or less ($\pm 1,0$ mm). At all measurement points, the angle of the probe with respect to the line normal to the surface is recommended but not required to be less than 30°.

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g and 10g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.

measure SAR with a grid step of 8 mm or less in a volume with a minimum size of 30 mm by 30 mm and 30 mm in depth (zoom scan procedure). The grid step in the vertical direction shall be 5 mm or less (see C.3.3). Separate grids shall be centred on each of the local SAR maxima found in step c).

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in 5.2

5.1. The composition of the tissue simulating liquid

Frequency (MHz) \ Ingredient (% Weight)	Water	Nacl	Sugar	HEC	Bactericide	DGBE	1,2-Propanediol	Triton X-100
900	34.4	0.79	0.0	0.0	0.0	0.0	64.81	0.0
1800	55.36	0.35	0.0	0.0	0.0	13.84	0.0	30.45
2000	50	0.0	0.0	0.0	0.0	50	0.0	0.0
2450	71.88	0.16	0.0	0.0	0.0	7.99	0.0	19.97

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the EN/IEC 62209-1 have been incorporated in the following table. The body tissue dielectric parameters recommended by the EN/IEC 62209-2 have been incorporated in the following table.

Target Frequency (MHz)	head		body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
835	41.5	0.90	41.5	0.90
900	41.5	0.97	41.5	0.97
1450	40.5	1.20	40.5	1.20
1800 – 2000	40.0	1.40	40.0	1.40
2450	39.2	1.80	39.2	1.80
3000	38.5	2.40	38.5	2.40

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000$ kg/m³)

5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using SATIMO Dielectric Probe Kit and R&S Network Analyzer ZVL6.

Frequency (MHz)	Target Value		Measurement Value		Tissue Temp [°C]	Test Date
	ϵ_r	δ [s/m]	ϵ_r	δ [s/m]		
900	41.50 39.425-43.575	0.97 0.9225-1.0185	41.11	0.95	20.1	Dec. 15,2016
1800	40.00 38.00-42.00	1.40 1.33-1.47	41.05	1.39	19.8	Dec. 19,2016
2000	40.00 38.00-42.00	1.40 1.33-1.47	39.75	1.37	19.6	Dec. 20,2016
2450	39.2 37.24-41.16	1.80 1.71-1.89	39.58	1.85	20.1	Dec. 17,2016

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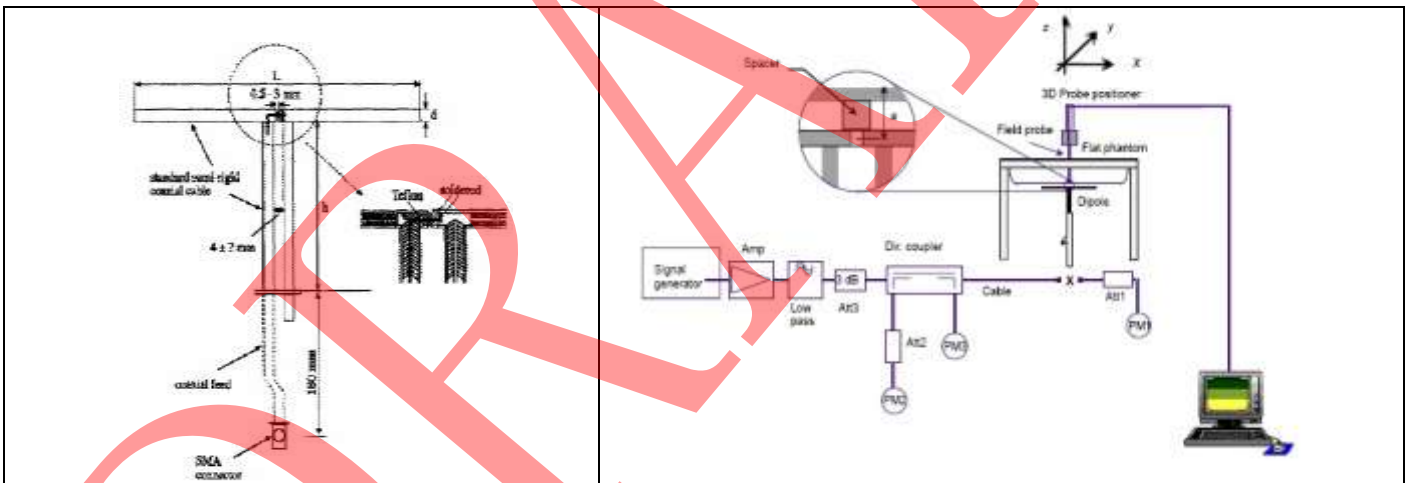
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

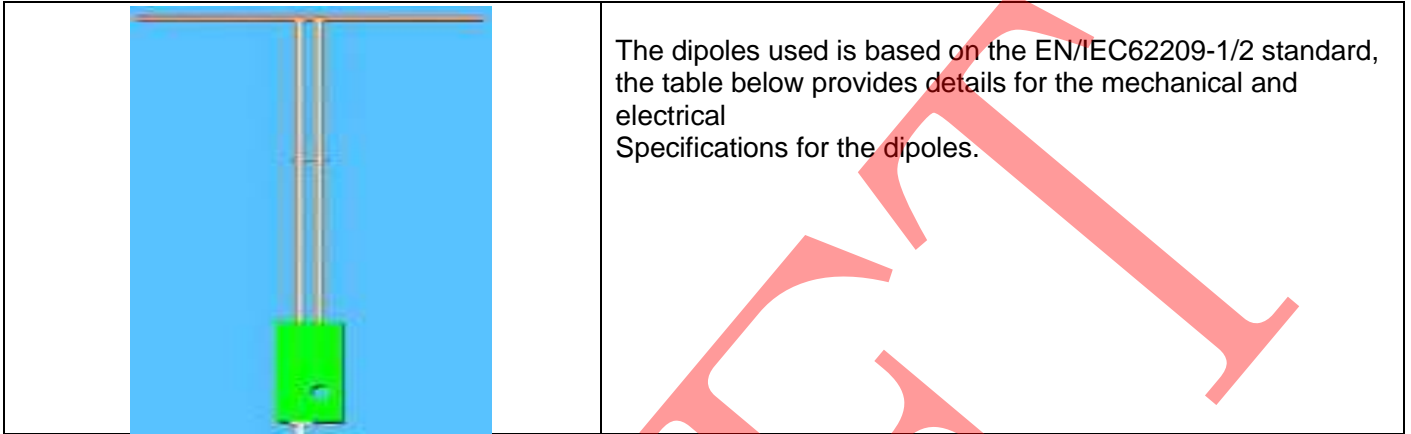
Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



6.2. SAR System Check

6.2.1. Dipoles



Frequency	L (mm)	h (mm)	d (mm)
900 MHz	149.0	83.3	3.6
1800MHz	71.6	41.7	3.6
2000 MHz	64.5	37.5	3.6
2450MHz	51.5	30.4	3.6

6.2.2. System Check Result

System Performance Check at 900 MHz & 1800MHz & 2000MHz & 2450MHz								
Validation Kit: SN 15/16DIP 0G900-400 & SN 29/15DIP 1G800-387 & SN 29/15DIP 2G000-390 & SN 29/15DIP 2G450-393								
Frequency [MHz]	Target Value(W/Kg)		Reference Result ($\pm 10\%$)		Normalized to 1W(W/Kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
900	10.99	6.88	9.891-12.089	6.192-7.568	10.463	6.424	20.1	Dec. 15,2016
1800	37.43	19.88	33.687-41.173	17.892-21.868	37.873	19.832	19.8	Dec. 19,2016
2000	43.15	21.41	38.835-47.465	19.269-23.551	40.885	20.882	19.6	Dec. 20,2016
2450	54.53	24.30	49.077-59.983	21.87-26.730	49.535	23.509	20.1	Dec. 17,2016

Note:

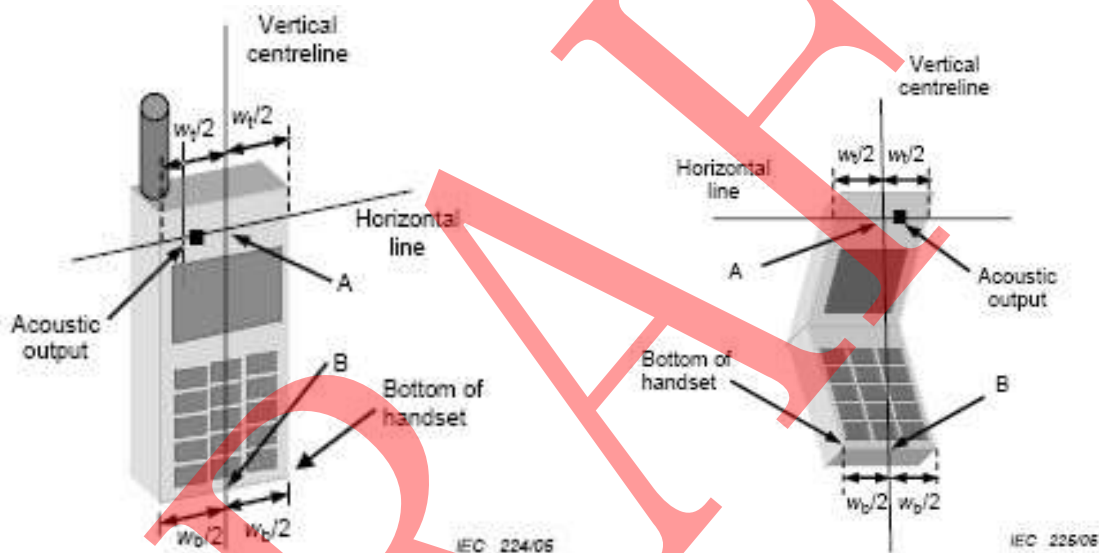
(1) We use a CW signal of 18dBm for system check, and then all SAR value are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.

7. EUT TEST POSITION

This EUT was tested in **Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back and Body front.**

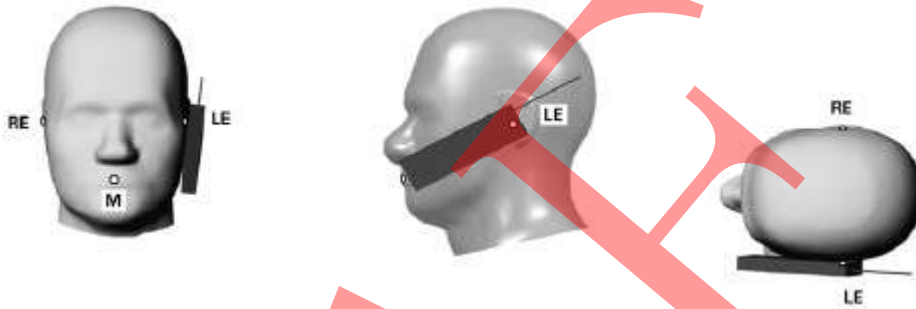
7.1. Define Two Imaginary Lines on the Handset

- (1) 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 handset.
- (2) 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.
- (3) 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 to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



7.2. Cheek Position

- (1) 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 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.
- (2) To move the device towards the phantom with the ear piece aligned with the the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with 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



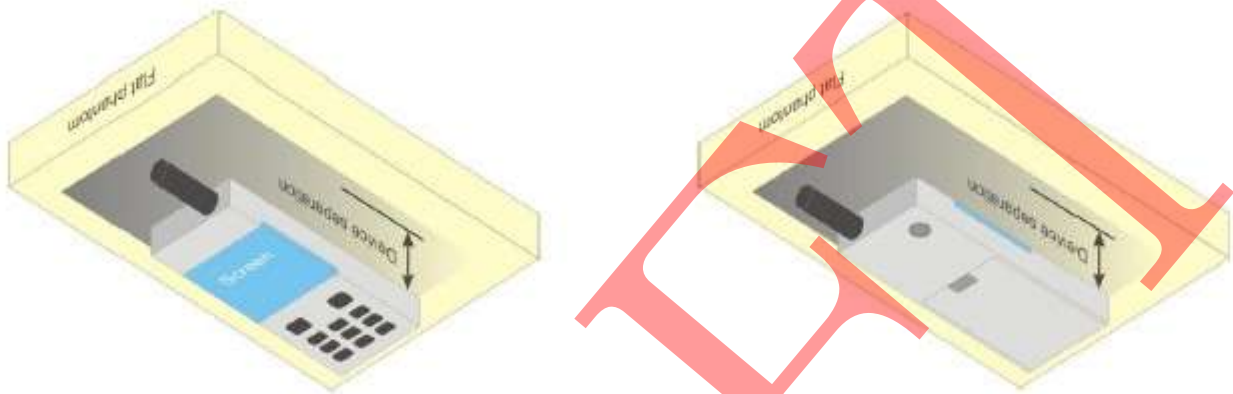
7.3. Tilt Position

- (1) To position the device in the "cheek" position described above.
- (2) While maintaining the device in 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 with the ear is lost.



7.4. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to **5mm**.



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8. SAR EXPOSURE LIMITS

SAR assessments have been made in line with the requirements of 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public electromagnetic fields (0 Hz-300GHz).

Limits for General Population/Uncontrolled Exposure (W/kg)

Type Exposure	Uncontrolled Environment Limit (W/kg)
Spatial Peak SAR (10 g cube tissue for brain or body)	2.00
Spatial Average SAR (Whole body)	0.08
Spatial Peak SAR (Limbs)	4.00

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9. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Current calibration date	Next calibration date
SAR Probe	MVG	SN 14/16 EP308	12/05/2016	12/04/2017
TISSUE Probe	SATIMO	SN 23/16 OCPG 75	07/05/2016	07/04/2017
Phantom	SATIMO	SN_4511_SAM90	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	-	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46310822	03/11/2016	03/10/2017
Comm Tester	R&S- CMW500	S/N121209	07/18/2016	07/17/2017
Multimeter	Keithley 2000	1188656	03/10/2016	03/09/2017
Dipole	SATIMO SID900	SN15/16 DIP 0G900-400	07/05/2016	07/04/2019
Dipole	SATIMO SID1800	SN29/15 DIP 1G800-387	07/05/2016	07/04/2019
Dipole	SATIMO SID2000	SN 29/15DIP 2G000-390	07/05/2016	07/04/2019
Dipole	SATIMO SID2450	SN29/15 DIP 2G450-393	07/05/2016	07/04/2019
Signal Generator	Agilent-E4438C	US41461365	02/29/2016	02/28/2017
Vector Analyzer	Agilent / E4440A	US40420298	07/02/2016	07/01/2017
Network Analyzer	Rhode & Schwarz ZVL6	SN100132	03/01/2016	02/28/2017
Attenuator	Warison /WATT-6SR1211	N/A	N/A	N/A
Attenuator	Mini-circuits / VAT-10+	N/A	N/A	N/A
Amplifier	EM30180	SN060552	03/04/2016	03/03/2017
Directional Couple	Werlatone/ C5571-10	SN99463	07/02/2016	07/01/2017
Directional Couple	Werlatone/ C6026-10	SN99482	07/02/2016	07/01/2017
Power Sensor	NRP-Z21	1137.6000.02	10/10/2016	10/09/2017
Power Sensor	NRP-Z23	US38261498	03/01/2016	02/28/2017
Power Viewer	R&S	V2.3.1.0	N/A	N/A

Note: Per EN/IEC 62209-1/2 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

10. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- SN 14/16 EP308									
Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System									
Probe calibration	7.2.2.1	5.831	N	1	1	1	5.83	5.83	∞
Probe Modulation	7.2.2.2	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Axial Isotropy	7.2.2.2	0.6	R	$\sqrt{3}$	1	1	0.35	0.35	∞
Hemispherical Isotropy	7.2.2.2	0.9	R	$\sqrt{3}$	1	1	0.52	0.52	∞
Boundary effect	7.2.2.6	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	7.2.2.3	1.91	R	$\sqrt{3}$	1	1	1.10	1.10	∞
System detection limits	7.2.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	7.2.2.7	0.02	N	1	1	1	0.02	0.02	∞
Response Time	7.2.2.8	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	7.2.2.9	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF Ambient Noise	7.2.4.5	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF Ambient Reflection	7.2.4.5	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe Positioner	7.2.3.1	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe Positioning	7.2.3.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Post-processing	7.2.5	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Test sample Related									
Device Positioning	7.2.3.4.3	0.03	N	1	1	1	0.03	0.03	∞
Device Holder	7.2.3.4.2	5	N	1	1	1	5.00	5.00	∞
Measurement SAR Drift	7.2.2.10	0.65	R	$\sqrt{3}$	1	1	0.38	0.38	∞
Power Scaling	L.3	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and set-up									
Phantom Uncertainty	7.2.3.2	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	7.2.4.3	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid Conductivity(Meas.)	7.2.4.3	5	N	1	0.78	0.71	3.90	3.55	M
Liquid Permittivity(Meas.)	7.2.4.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid Conductivity-temperature uncertainty	7.2.4.4	5	R	$\sqrt{3}$	0.78	0.71	2.25	2.05	∞
Liquid Permittivity-temperature uncertainty	7.2.4.4	5	R	$\sqrt{3}$	0.23	0.26	0.66	0.75	∞
Combined Standard Uncertainty	7.3.1			RSS			10.39	10.118	∞
Expanded Uncertainty (95% Confidence interval)	7.3.2			k			20.86	20.315	

SATIMO Uncertainty- SN 14/16 EP308									
System validation uncertainty for Dipole averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System									
Probe calibration	7.2.2.1	5.831	N	1	1	1	5.83	5.83	∞
Probe Modulation	7.2.2.2	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Axial Isotropy	7.2.2.2	0.6	R	$\sqrt{3}$	1	1	0.35	0.35	∞
Hemispherical Isotropy	7.2.2.2	0.9	R	$\sqrt{3}$	1	1	0.52	0.52	∞
Boundary effect	7.2.2.6	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	7.2.2.3	1.91	R	$\sqrt{3}$	1	1	1.10	1.10	∞
System detection limits	7.2.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	7.2.2.7	0.02	N	1	1	1	0.02	0.02	∞
Response Time	7.2.2.8	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	7.2.2.9	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF Ambient Noise	7.2.4.5	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF Ambient Reflection	7.2.4.5	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe Positioner	7.2.3.1	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe Positioning	7.2.3.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Post-processing	7.2.5	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
System validation source (dipole)									
Deviation of exp. dipole	7.2.6	5	R	1	1	1	5.00	5.00	∞
Dipole Axis to Liquid Dist.	7.2.3.4.3	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Input power & SAR drift	7.2.2.10	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Phantom and set-up									
Phantom Uncertainty	7.2.3.2	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	7.2.4.3	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid Conductivity(Meas.)	7.2.4.3	5	N	1	0.78	0.71	3.90	3.55	M
Liquid Permittivity(Meas.)	7.2.4.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid Conductivity-temperature uncertainty	7.2.4.4	5	R	$\sqrt{3}$	0.78	0.71	2.25	2.05	∞
Liquid Permittivity-temperature uncertainty	7.2.4.4	5	R	$\sqrt{3}$	0.23	0.26	0.66	0.75	∞
Combined Standard Uncertainty	7.3.1			RSS			11.17	10.920	∞
Expanded Uncertainty (95% Confidence interval)	7.3.2			k			20.879	20.333	

SATIMO Uncertainty- SN 14/16 EP308									
System Check uncertainty for Dipole averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System									
Modulation response	7.2.2.4	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	7.2.2.6	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System detection limits	7.2.2.5	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	7.2.2.7	0.02	N	1	0	0	0.00	0.00	∞
Response Time	7.2.2.8	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	7.2.2.9	2.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF Ambient Noise	7.2.4.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF Ambient Reflection	7.2.4.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Probe Positioner	7.2.3.1	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe Positioning	7.2.3.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Post-processing	7.2.5	5.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Field source									
Deviation of exp. dipole	7.2.6	5	R	1	1	1	5.00	5.00	∞
Dipole Axis to Liquid Dist.	7.2.3.4.3	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Input power & SAR drift	7.2.2.10	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Phantom and set-up									
Phantom Uncertainty	7.2.3.2	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	7.2.4.3	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid Conductivity(Meas.)	7.2.4.3	5	N	1	0.78	0.71	3.90	3.55	M
Liquid Permittivity(Meas.)	7.2.4.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid Conductivity-temperature uncertainty	7.2.4.4	5	R	$\sqrt{3}$	0.78	0.71	2.25	2.05	∞
Liquid Permittivity-temperature uncertainty	7.2.4.4	5	R	$\sqrt{3}$	0.23	0.26	0.66	0.75	∞
Combined Standard Uncertainty	7.3.1		RSS				9.33	9.028	∞
Expanded Uncertainty (95% Confidence interval)	7.3.2		k				14.289	13.479	

11. CONDUCTED POWER MEASUREMENT

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
GSM 900	880.2	31.40	-9	22.40
	897.4	31.45	-9	22.45
	914.8	31.35	-9	22.35
GPRS 900 (1 Slot)	880.2	31.26	-9	22.26
	897.4	31.21	-9	22.21
	914.8	31.16	-9	22.16
GPRS 900 (2 Slot)	880.2	28.36	-6	22.36
	897.4	28.41	-6	22.41
	914.8	28.30	-6	22.30
GPRS 900 (3 Slot)	880.2	26.41	-4.26	22.15
	897.4	26.44	-4.26	22.18
	914.8	26.43	-4.26	22.17
GPRS 900 (4 Slot)	880.2	25.85	-3	22.85
	897.4	25.89	-3	22.89
	914.8	25.86	-3	22.86
Maximum Power <2>				
GSM 900	880.2	31.35	-9	22.35
	897.4	31.30	-9	22.30
	914.8	31.31	-9	22.31
GPRS 900 (1 Slot)	880.2	31.20	-9	22.20
	897.4	31.20	-9	22.20
	914.8	31.12	-9	22.12
GPRS 900 (2 Slot)	880.2	28.33	-6	22.33
	897.4	28.40	-6	22.40
	914.8	28.28	-6	22.28
GPRS 900 (3 Slot)	880.2	26.30	-4.26	22.04
	897.4	26.33	-4.26	22.07
	914.8	26.36	-4.26	22.10
GPRS 900 (4 Slot)	880.2	25.81	-3	22.81
	897.4	25.85	-3	22.85
	914.8	25.80	-3	22.80

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
DCS1800	1710.2	28.56	-9	19.56
	1747.4	28.58	-9	19.58
	1784.8	28.50	-9	19.50
GPRS1800 (1 Slot)	1710.2	28.33	-9	19.33
	1747.4	28.36	-9	19.36
	1784.8	28.30	-9	19.30
GPRS1800 (2 Slot)	1710.2	25.40	-6	19.40
	1747.4	25.46	-6	19.46
	1784.8	25.41	-6	19.41
GPRS1800 (3 Slot)	1710.2	23.32	-4.26	19.06
	1747.4	23.40	-4.26	19.14
	1784.8	23.33	-4.26	19.07
GPRS1800 (4 Slot)	1710.2	22.88	-3	19.88
	1747.4	22.88	-3	19.88
	1784.8	22.76	-3	19.76
Maximum Power <2>				
DCS1800	1710.2	28.50	-9	19.50
	1747.4	28.51	-9	19.51
	1784.8	28.45	-9	19.45
GPRS1800 (1 Slot)	1710.2	28.20	-9	19.20
	1747.4	28.25	-9	19.25
	1784.8	28.22	-9	19.22
GPRS1800 (2 Slot)	1710.2	25.31	-6	19.31
	1747.4	25.35	-6	19.35
	1784.8	25.31	-6	19.31
GPRS1800 (3 Slot)	1710.2	23.30	-4.26	19.04
	1747.4	23.33	-4.26	19.07
	1784.8	23.31	-4.26	19.05
GPRS1800 (4 Slot)	1710.2	22.86	-3	19.86
	1747.4	22.80	-3	19.80
	1784.8	22.71	-3	19.71

Note 1:

The Frame Power (Source-based time-averaged Power) is scaled the maximum burst average power based on time slots. The calculated methods are show as following:

Frame Power = Max burst power (1 Up Slot) – 9 dB

Frame Power = Max burst power (2 Up Slot) – 6 dB

Frame Power = Max burst power (3 Up Slot) – 4.26 dB

Frame Power = Max burst power (4 Up Slot) – 3 dB

Note 2:

SAR is not required for GPRS (1 Slot) Mode because its output power is less than of Voice Mode

UMTS BAND I

Mode	Frequency(MHz)	Avg. Burst Power (dBm)
WCDMA 2100 RMC(12.2kbps)	1922.4	23.70
	1950	23.85
	1977.6	23.77
HSDPA Subtest 1	1922.4	22.88
	1950	22.89
	1977.6	22.81
HSDPA Subtest 2	1922.4	22.65
	1950	22.66
	1977.6	22.63
HSDPA Subtest 3	1922.4	22.56
	1950	22.53
	1977.6	22.56
HSDPA Subtest 4	1922.4	22.23
	1950	22.26
	1977.6	22.10
HSUPA Subtest 1	1922.4	21.40
	1950	21.45
	1977.6	21.36
HSUPA Subtest 2	1922.4	21.26
	1950	21.25
	1977.6	21.22
HSUPA Subtest 3	1922.4	21.15
	1950	21.14
	1977.6	21.11
HSUPA Subtest 4	1922.4	21.06
	1950	21.01
	1977.6	21.00
HSUPA Subtest 5	1922.4	20.90
	1950	20.95
	1977.6	20.92

UMTS BAND VIII

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 900 RMC(12.2kbps)	882.4	23.52
	897.6	23.56
	912.6	23.50
HSDPA Subtest 1	882.4	22.60
	897.6	22.66
	912.6	22.66
HSDPA Subtest 2	882.4	22.53
	897.6	22.56
	912.6	22.53
HSDPA Subtest 3	882.4	22.36
	897.6	22.33
	912.6	22.32
HSDPA Subtest 4	882.4	22.26
	897.6	22.22
	912.6	22.25
HSUPA Subtest 1	882.4	21.50
	897.6	21.45
	912.6	21.44
HSUPA Subtest 2	882.4	21.31
	897.6	21.36
	912.6	21.33
HSUPA Subtest 3	882.4	21.26
	897.6	21.25
	912.6	21.12
HSUPA Subtest 4	882.4	20.89
	897.6	20.99
	912.6	20.92
HSUPA Subtest 5	882.4	20.81
	897.6	20.88
	912.6	20.85

According to 3GPP 25.101 sub-clause 6.2.2 , the maximum output power is allowed to be reduced by following the table.

Table 6.1Aa: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: CM=1 for $\beta_d/\beta_{d'}=12/15$, $\beta_{hs}/\beta_c=24/15$.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	EIRP (dBm)
802.11b	1	1	2412	13.98
		7	2442	13.84
		13	2472	10.51
802.11g	6	1	2412	12.73
		7	2442	12.79
		13	2472	12.45
802.11n(20)	6.5	1	2412	12.92
		7	2442	12.67
		13	2472	12.69
802.11n(40)	13.5	3	2422	10.49
		7	2442	10.61
		11	2462	10.25

DRAFT

12. TEST RESULTS

12.1. SAR Test Results Summary

12.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEC/EN62209-1, and Body SAR was performed with the device 5mm from the phantom according to IEC/EN62209-2.

12.1.2. Operation Mode

1. For GSM900, the power control is set to Maximum Power Class. For GPRS 900(GMSK, CS1), the power control level is set to Maximum Power Class. For DCS 1800, the power control is set to Maximum Power Class. For GPRS 1800(GMSK, CS1), the power control level is set to Maximum Power Class.

This is a multi-slot class 12 device capable of 4 uplink timeslots. During the head SAR test, the device was transmitting with maximum 1 uplink timeslot; during the body SAR test, it was transmitting with maximum 4 uplink timeslots. Additionally, this device doesn't support dual transfer mode (DTM)

Testing with the headset was performed at the position and channels that resulted in the highest body SAR. This testing was performed with GPRS transmitting with 2/3/4 uplink timeslots. In the Body SAR test result table, body-worn means display of device down, body-front means display of device up.

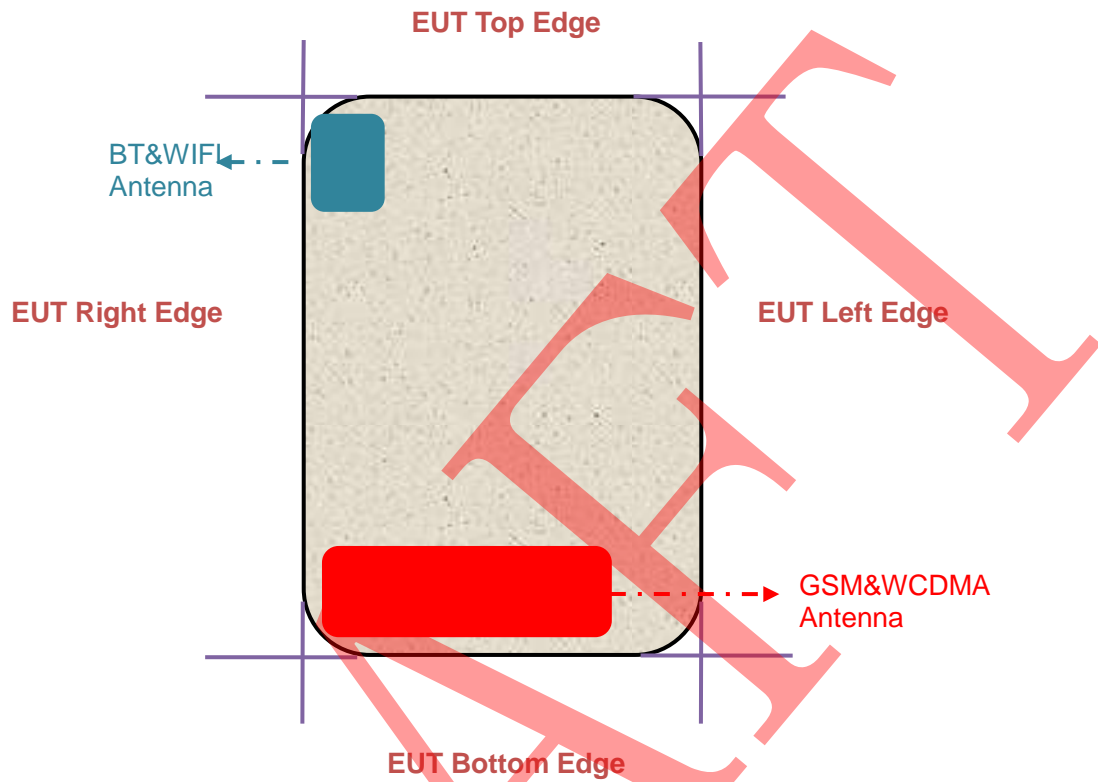
2. For WCDMA, head and body SAR is tested under RMC 12.2k mode with power control set all up bits SAR for AMR is not required since its power is less than RMC. For HSDPA/HSUPA, SAR is test with its maximum power mode.

3 For WIFI SAR testing, the EUT has installed WIFI engineering testing software which can provide continuous transmitting RF signal.

4 Sensors have no any influence on power level or SAR result.

5 The portion of the EUT which area scan did not scan has been off the phantom

12.1.3. Antenna Location: (back view)



12.1.4. SAR Test Results Summary

SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 60.4				
Product: 3G Dual-SIM Smartphone									
Test Mode: GSM900 with GMSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (10g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/Kg)
SIM 1 Card									
Left Cheek	voice	37	897.4	0.23	0.486	31.50	31.45	0.492	2.0
Left Tilt	voice	37	897.4	-1.02	0.348	31.50	31.45	0.352	2.0
Right Cheek	voice	37	897.4	0.26	0.475	31.50	31.45	0.481	2.0
Right Tilt	voice	37	897.4	0.32	0.355	31.50	31.45	0.359	2.0
Body back	voice	37	897.4	-1.22	0.838	31.50	31.45	0.848	2.0
Body back	GPRS-2 slots	37	897.4	0.02	0.825	28.50	28.41	0.842	2.0
Body back	GPRS-3 slots	37	897.4	-0.23	0.889	26.50	26.44	0.901	2.0
Body back	GPRS-4 slots	975	880.2	-1.02	0.852	26.00	25.85	0.882	2.0
Body back	GPRS-4 slots	37	897.4	0.23	0.970	26.00	25.89	0.995	2.0
Body back	GPRS-4 slots	124	914.8	-1.33	0.902	26.00	25.86	0.932	2.0
Body Front	GPRS-4 slots	37	897.4	0.02	0.603	26.00	25.89	0.618	2.0
Body back + Ear.	GPRS-4 slots	37	897.4	0.02	0.950	26.00	25.89	0.974	2.0
SIM 2 Card									
Body back	GPRS-4 slots	37	897.4	0.52	0.896	26.00	25.85	0.927	2.0

Note:

- When the 10-g SAR is $\leq 1.0W/kg$, testing for low and high channel is optional.
- The test separation of all above table(body part) is 5mm.

SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 58.5				
Product: 3G Dual-SIM Smartphone									
Test Mode: DCS1800 with GMSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift ($\pm 5\%$)	SAR (10g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/Kg)
SIM 1 Card									
Left Cheek	voice	698	1747.4	0.83	0.215	28.60	28.58	0.216	2.0
Left Tilt	voice	698	1747.4	-1.52	0.052	28.60	28.58	0.052	2.0
Right Cheek	voice	698	1747.4	0.32	0.183	28.60	28.58	0.184	2.0
Right Tilt	voice	698	1747.4	1.32	0.066	28.60	28.58	0.066	2.0
Body back	voice	698	1747.4	-0.62	0.644	28.60	28.58	0.647	2.0
Body back	GPRS-2 slots	698	1747.4	0.36	0.827	25.50	25.46	0.835	2.0
Body back	GPRS-3 slots	698	1747.4	1.62	0.841	23.50	23.40	0.861	2.0
Body back	GPRS-4 slots	512	1710.2	0.32	1.059	23.00	22.88	1.089	2.0
Body back	GPRS-4 slots	698	1747.4	-0.63	0.871	23.00	22.88	0.895	2.0
Body back	GPRS-4 slots	885	1784.8	1.33	0.773	23.00	22.76	0.817	2.0
Body Front	GPRS-4 slots	698	1747.4	-0.62	0.496	23.00	22.88	0.510	2.0
Body back + Ear.	GPRS-4 slots	512	1710.2	0.36	0.900	23.00	22.88	0.925	2.0
SIM 2 Card									
Body back	GPRS-4 slots	512	1710.2	0.26	1.053	23.00	22.86	1.087	2.0

Note:

- When the 10-g SAR is $\leq 1.0W/kg$, testing for low and high channel is optional.
- The test separation of all above table (body part) is 5mm.

SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 56.1				
Product: 3G Dual-SIM Smartphone									
Test Mode: WCDMA Band I with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (10g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
SIM 1 Card									
Left Cheek	RMC12.2kbps	9750	1950	-0.53	0.147	24.00	23.85	0.152	2.0
Left Tilt	RMC12.2kbps	9750	1950	1.62	0.016	24.00	23.85	0.017	2.0
Right Cheek	RMC12.2kbps	9750	1950	-0.33	0.345	24.00	23.85	0.357	2.0
Right Tilt	RMC12.2kbps	9750	1950	1.60	0.068	24.00	23.85	0.070	2.0
Body back	RMC12.2kbps	9612	1922.4	0.32	0.776	24.00	23.70	0.831	2.0
Body back	RMC12.2kbps	9750	1950	-0.63	1.155	24.00	23.85	1.196	2.0
Body back	RMC12.2kbps	9888	1977.6	1.30	0.830	24.00	23.77	0.875	2.0
Body front	RMC12.2kbps	9750	1950	-0.62	0.759	24.00	23.85	0.786	2.0
Body back	HSPA	9612	1922.4	0.33	0.705	23.00	22.88	0.725	2.0
Body back	HSPA	9750	1950	-1.63	1.029	23.00	22.89	1.055	2.0
Body back	HSPA	9888	1977.6	0.32	0.740	23.00	22.81	0.773	2.0
Body back + Ear.	RMC12.2kbps	9750	1950	0.62	0.947	24.00	23.85	0.980	2.0

Note:

- When the 10-g SAR is ≤ 1.0 W/kg, testing for low and high channel is optional.
- The test separation of all above table(body part) is 5mm.

SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 60.4				
Product: 3G Dual-SIM Smartphone									
Test Mode: WCDMA Band VIII with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (10g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
SIM 1 Card									
Left Cheek	RMC12.2kbps	2788	897.6	0.23	0.473	23.60	23.56	0.477	2.0
Left Tilt	RMC12.2kbps	2788	897.6	-0.12	0.198	23.60	23.56	0.200	2.0
Right Cheek	RMC12.2kbps	2788	897.6	1.00	0.190	23.60	23.56	0.192	2.0
Right Tilt	RMC12.2kbps	2788	897.6	0.02	0.086	23.60	23.56	0.087	2.0
Body back	RMC12.2kbps	2712	882.4	-0.23	0.674	23.60	23.52	0.687	2.0
Body back	RMC12.2kbps	2788	897.6	1.02	0.773	23.60	23.56	0.780	2.0
Body back	RMC12.2kbps	2863	912.6	0.23	0.640	23.60	23.50	0.655	2.0
Body front	RMC12.2kbps	2788	897.6	-1.20	0.187	23.60	23.56	0.189	2.0
Body back	HSPA	2788	897.6	0.02	0.770	22.70	22.66	0.777	2.0
Body back + Ear.	RMC12.2kbps	2788	897.6	-0.36	0.770	23.60	23.56	0.777	2.0

Note:

- When the 10-g SAR is ≤ 1.0W/kg, testing for low and high channel is optional.
- The test separation of all above table(body part) is 5mm.

DRAFT

SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 56.4				
Product: 3G Dual-SIM Smartphone									
Test Mode: 802.11b									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (10g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
Left Cheek	DTS	1	2412	0.29	0.270	13.98	13.98	0.270	2.0
Left Cheek	DTS	7	2442	-1.02	0.267	13.98	13.84	0.276	2.0
Left Cheek	DTS	13	2472	0.34	0.279	13.98	10.51	0.620	2.0
Left Tilt	DTS	1	2412	0.23	0.219	13.98	13.98	0.219	2.0
Right Cheek	DTS	1	2412	-1.02	0.117	13.98	13.98	0.117	2.0
Right Tilt	DTS	1	2412	0.2	0.112	13.98	13.98	0.112	2.0
Body back	DTS	1	2412	-1.22	0.207	13.98	13.98	0.207	2.0
Body front	DTS	1	2412	0.02	0.163	13.98	13.98	0.163	2.0
Body back + Ear.	DTS	1	2412	-0.32	0.223	13.98	13.98	0.223	2.0

Note:

- When the 10-g SAR is ≤ 1.0W/kg, testing for low and high channel is optional.
- The test separation of all above table(body part) is 5mm.

DRAFT

Simultaneous Multi-band Transmission Evaluation:

According to EN62209-2:2010 section 6.3.2, when the EUT has more than one transmission mode, there need to take Simultaneous Multi-band Transmission into consideration;

- (1) The EUT has GSM/WCDMA antenna, BT/ WIFI antenna;
- (2) BT and WIFI share one antenna, and cannot transmit simultaneously;
- (3) GSM and GPRS/WCDMA can't work at the same time;
- (4) For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state;
- (5) For each transmission mode, there must test separately, and then summation of peak spatial-averaged SAR values;
- (6) For secondary transmitter (i.e. lower power transmitters), we use the following measurement to evaluate if their power levels fall below a threshold level(Annex k):

$$P_{available} = P_{th,m} \times (SAR_{lim} - SAR_1) / SAR_{lim}$$

Where

$P_{th,m}$ is the threshold exclusion power level;

$P_{available}$ is the threshold value there need to be tested;

SAR_{lim} is the SAR limit;

SAR_1 is the maximum SAR value of first transmitter mode result;

Alternatively, $P_{th,m}$ can be replaced by $P_{max,m}$, which is an easier approach but leads to more restrictive power threshold;

$$P_{available} = P_{th,m} \times (SAR_{lim} - SAR_1) / SAR_{lim} = 20mW \times (2W/Kg - 1.196 W/Kg) / 2W/Kg$$

$$= 8.04mW > 0.69mW (-1.64dBm) \text{ for BT}$$

$$= 8.04mW < 25.00mW (13.98dBm) \text{ for WIFI}$$

There is no need to test BT and no need to evaluate simultaneous transmission.

There is need to test WIFI and need to evaluate simultaneous transmission.

Simultaneous Multi-band Transmission SAR:

NO	Simultaneous state	Portable Handset	
		Head	Body-worn
1	GSM(voice)+WIFI 2.4GHz (data)	Yes	Yes
2	GSM(Data)+WIFI 2.4GHz (data)	Yes	Yes
3	WCDMA(RMC12.2kbps)+WIFI 2.4GHz (data)	Yes	Yes

Frequency	RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ10-g SAR (W/Kg)	Limit (W/Kg)
			GSM/WCDMA	WIFI		
GSM 900	Head (voice)	Left Touch	0.492	0.620	1.112	2.0
		Left Tilt	0.352	0.219	0.571	2.0
		Right Touch	0.481	0.117	0.598	2.0
		Right Tilt	0.359	0.112	0.471	2.0
	Body-worn	Body back	0.848	0.207	1.055	2.0
		GPRS-2slots	0.842	0.207	1.049	2.0
		GPRS-3slots	0.901	0.207	1.108	2.0
		GPRS-4slots	0.995	0.207	1.202	2.0
		Body Front	0.618	0.163	0.781	2.0
Earphone	0.974	0.223	1.197	2.0		
DCS 1800	Head (voice)	Left Touch	0.216	0.620	0.836	2.0
		Left Tilt	0.052	0.219	0.271	2.0
		Right Touch	0.184	0.117	0.301	2.0
		Right Tilt	0.066	0.112	0.178	2.0
	Body-worn	Body back	0.647	0.207	0.854	2.0
		GPRS-2slots	0.835	0.207	1.042	2.0
		GPRS-3slots	0.861	0.207	1.068	2.0
		GPRS-4slots	1.089	0.207	1.296	2.0
		Body Front	0.510	0.163	0.673	2.0
Earphone	0.925	0.223	1.148	2.0		
WCDMA Band I	Head	Left Touch	0.152	0.620	0.772	2.0
		Left Tilt	0.017	0.219	0.236	2.0
		Right Touch	0.357	0.117	0.474	2.0
		Right Tilt	0.070	0.112	0.182	2.0
	Body-worn	Body back	1.196	0.207	1.403	2.0
		Body Front	0.786	0.163	0.949	2.0
		Body back	1.055	0.207	1.262	2.0
		Earphone	0.980	0.223	1.203	2.0
WCDMA Band VIII	Head	Left Touch	0.477	0.620	1.097	2.0
		Left Tilt	0.200	0.219	0.419	2.0
		Right Touch	0.192	0.117	0.309	2.0
		Right Tilt	0.087	0.112	0.199	2.0
	Body-worn	Body back	0.780	0.207	0.987	2.0
		Body Front	0.189	0.163	0.352	2.0
		Body back	0.777	0.207	0.984	2.0
		Earphone	0.777	0.223	1.000	2.0

APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab

Date: Dec. 15,2016

System Check Head 900 MHz

DUT: Dipole 900 MHz Type: SID 900

Communication System: CW; Communication System Band: D900 (900.0 MHz); Duty Cycle: 1:1; Conv.F=5.39
Frequency: 900 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

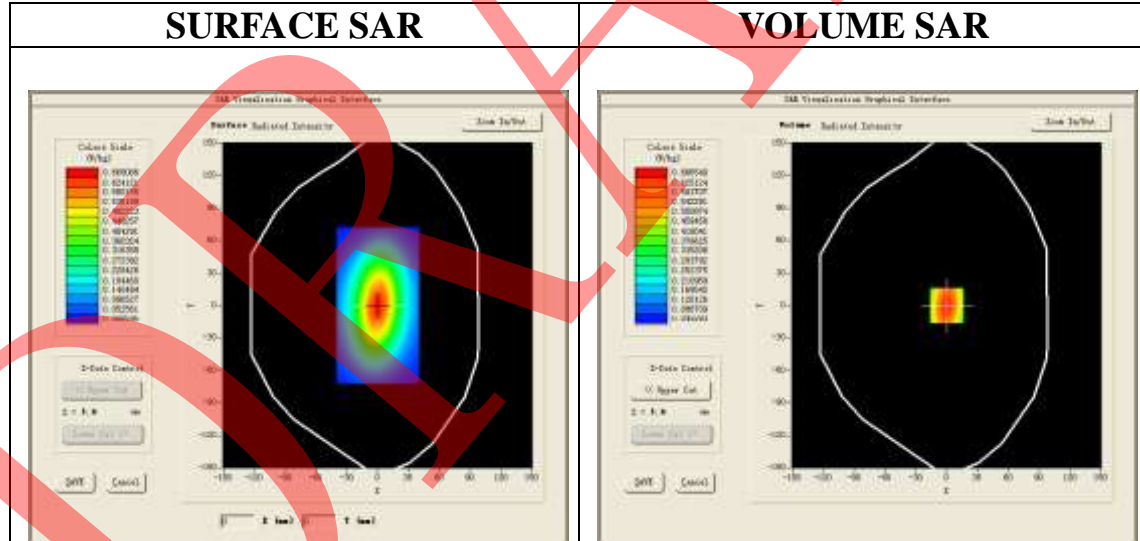
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 900 Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 900 Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

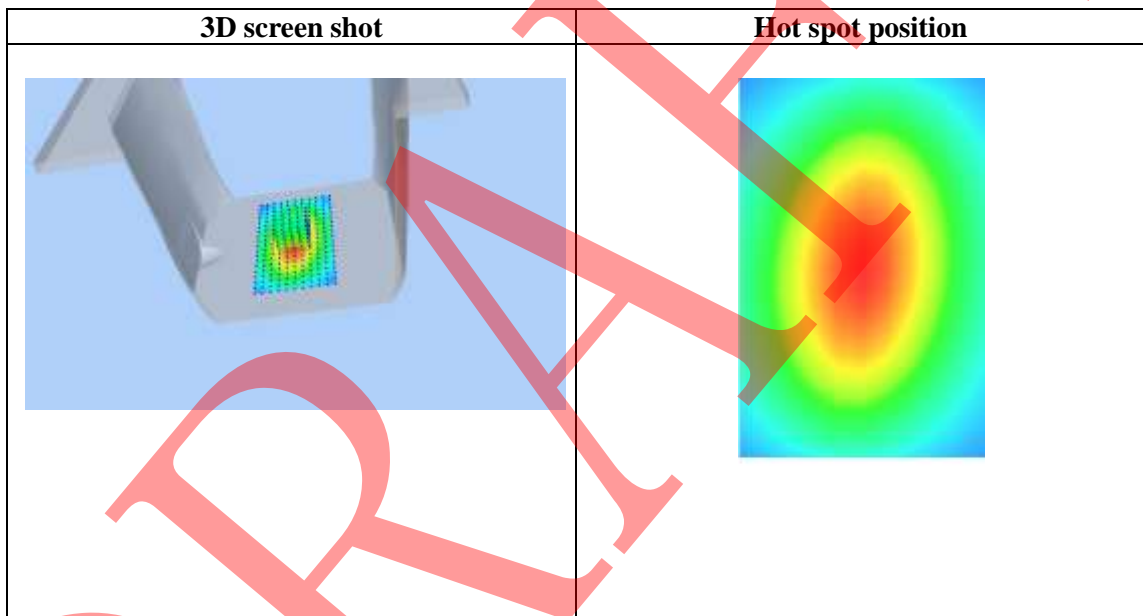
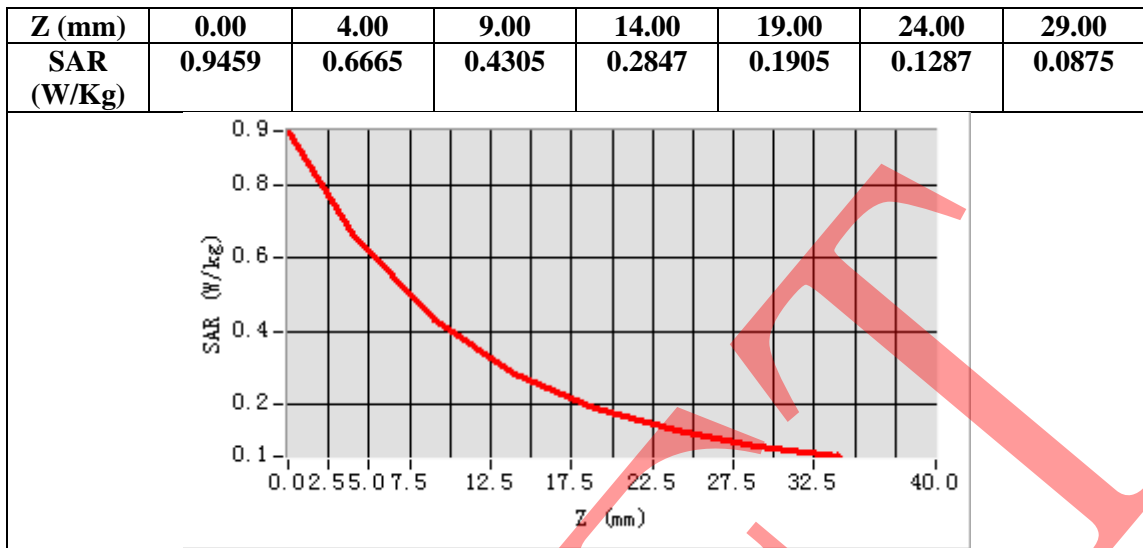
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	SAM twin phantom
Device Position	Flat
Band	CW 900
Channels	Middle
Signal	Crest factor: 1.0



Maximum location: X=0.00, Y=0.00

SAR Peak: 0.92 W/kg

SAR 10g (W/Kg)	0.405312
SAR 1g (W/Kg)	0.641225



Test Laboratory: AGC Lab
System Check Head 1800MHz

Date: Dec. 19,2016

DUT: Dipole 1800 MHz; Type: SID 1800

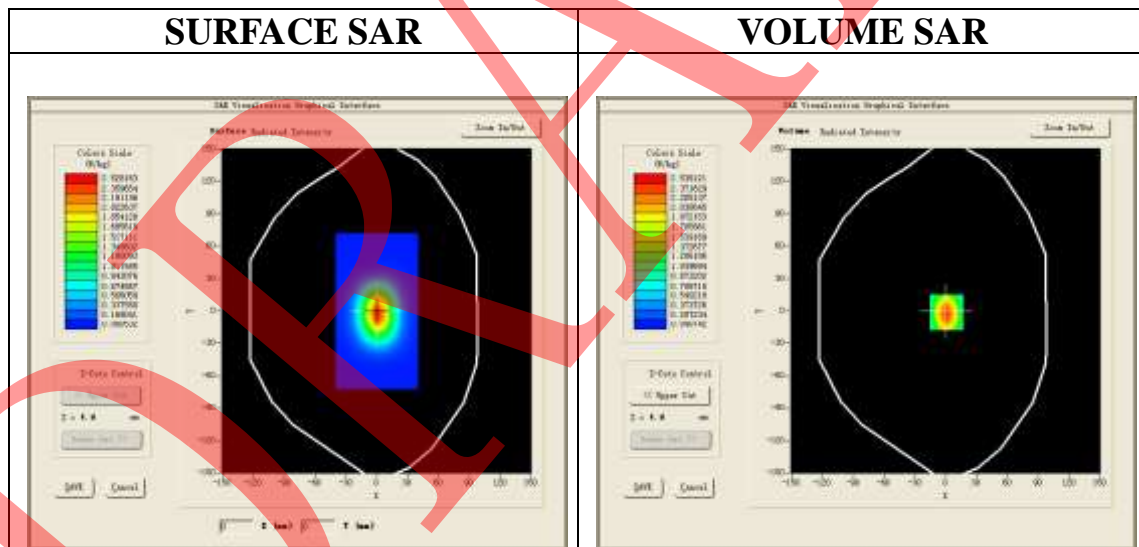
Communication System: CW; Communication System Band: D1800 (1800.0 MHz); Duty Cycle: 1:1; Conv.F=4.98
Frequency: 1800 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 20.5, Liquid temperature (°C): 19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 1800 Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 1800 Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

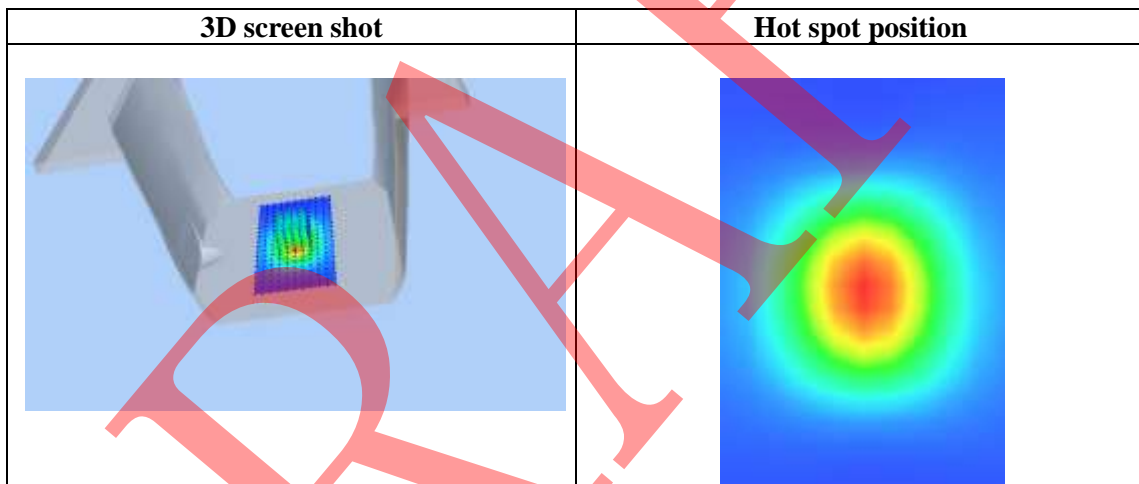
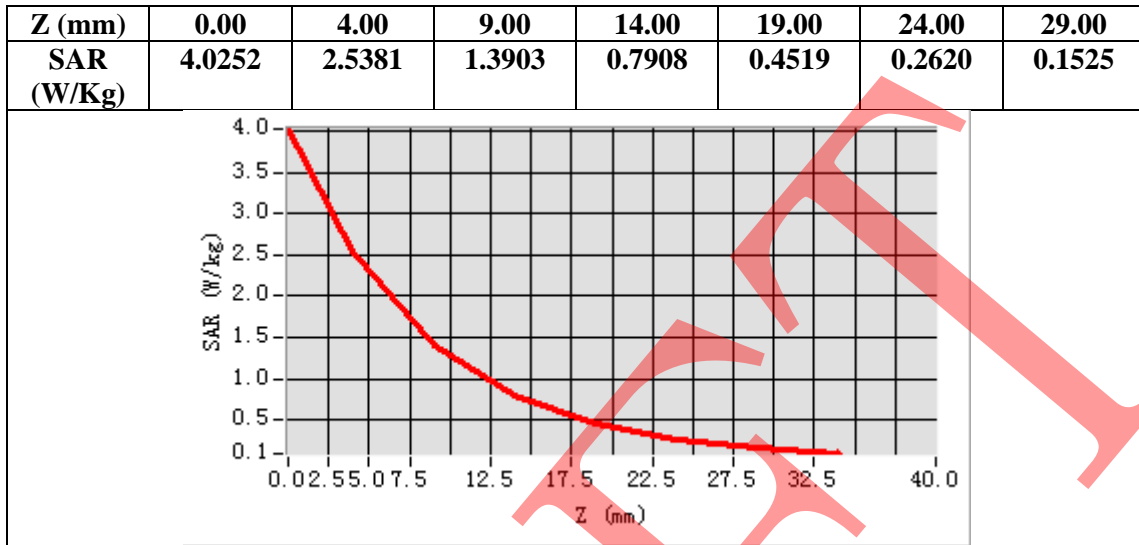
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	SAM twin phantom
Device Position	Flat
Band	CW 1800
Channels	Middle
Signal	Crest factor: 1.0



Maximum location: X=1.00, Y=-1.00

SAR Peak: 4.01 W/kg

SAR 10g (W/Kg)	1.251337
SAR 1g (W/Kg)	2.389653



Test Laboratory: AGC Lab
System Check Head 2000MHz

Date: Dec. 20,2016

DUT: Dipole 2000 MHz; Type: SID 2000

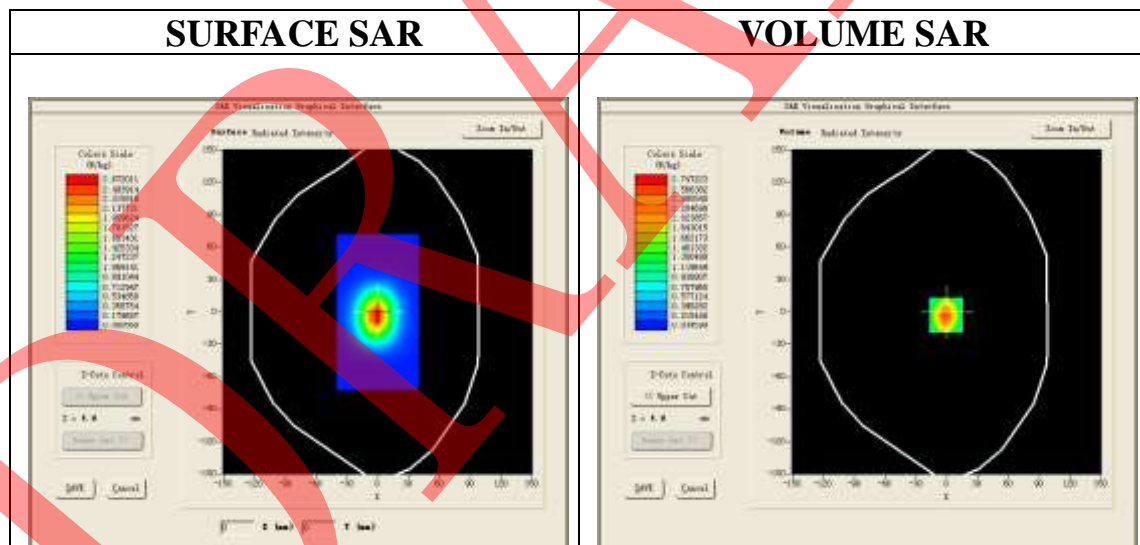
Communication System: CW; Communication System Band: D2000 (2000.0 MHz); Duty Cycle: 1:1; Conv.F=5.25
Frequency: 2000 MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 20.5, Liquid temperature (°C): 19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

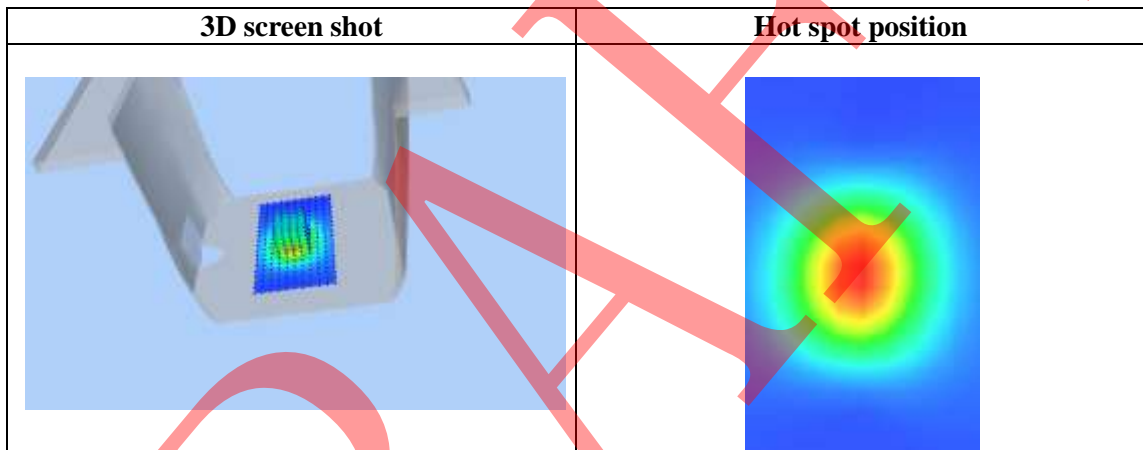
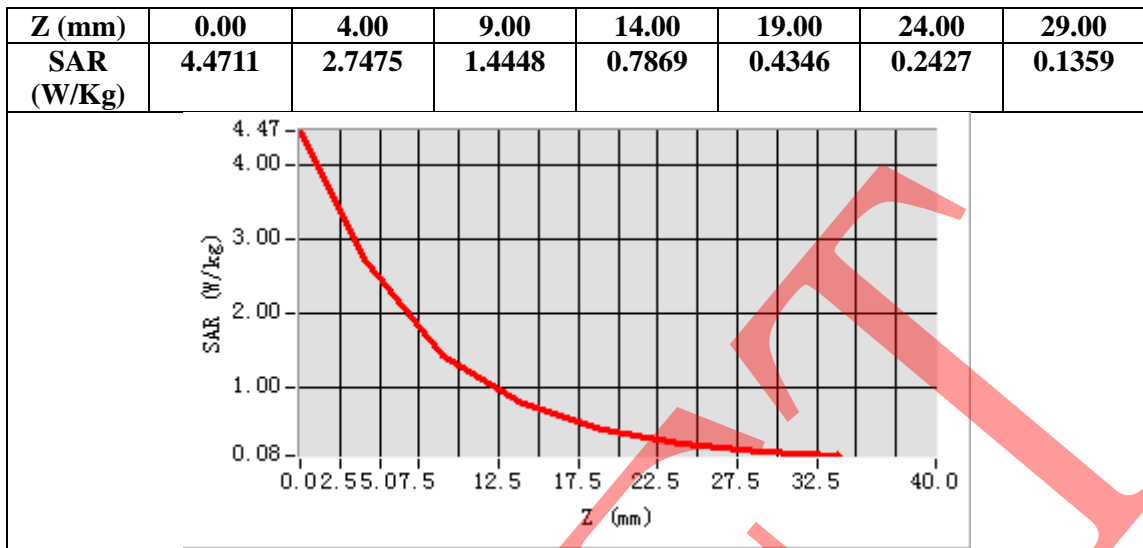
Configuration/System Check 2000 Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 2000 Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	SAM twin phantom
Device Position	Flat
Band	CW 2000
Channels	Middle
Signal	Crest factor: 1.0



Maximum location: X=-1.00, Y=-3.00
SAR Peak: 4.48 W/kg

SAR 10g (W/Kg)	1.317562
SAR 1g (W/Kg)	2.579663



Test Laboratory: AGC Lab
System Check Head 2450 MHz

Date: Dec. 17,2016

DUT: Dipole 2450 MHz Type: SID 2450

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=5.19
Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.58$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 20.7, Liquid temperature (°C): 20.1

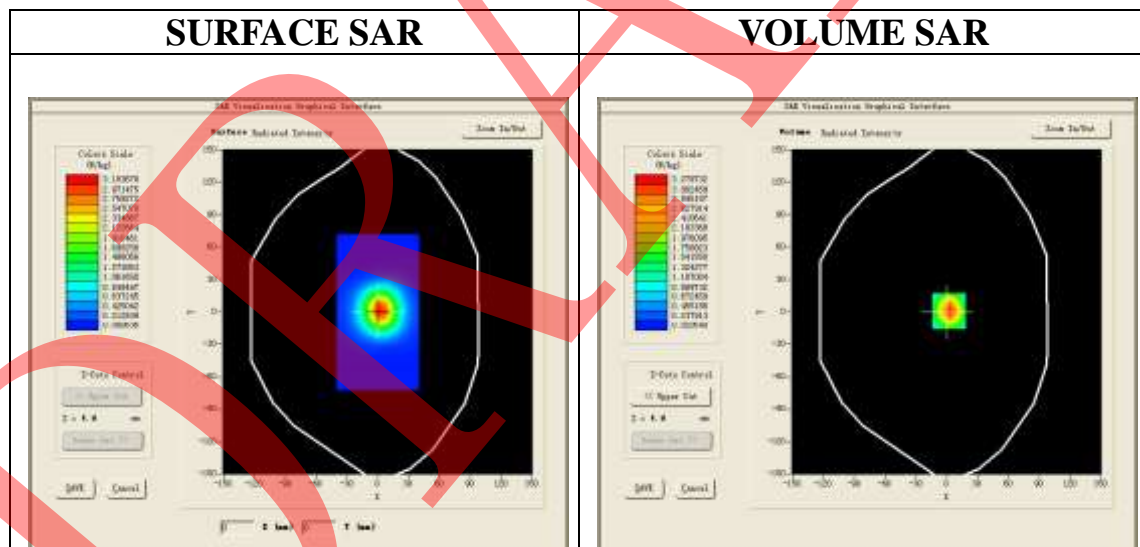
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 2450 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 2450 MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

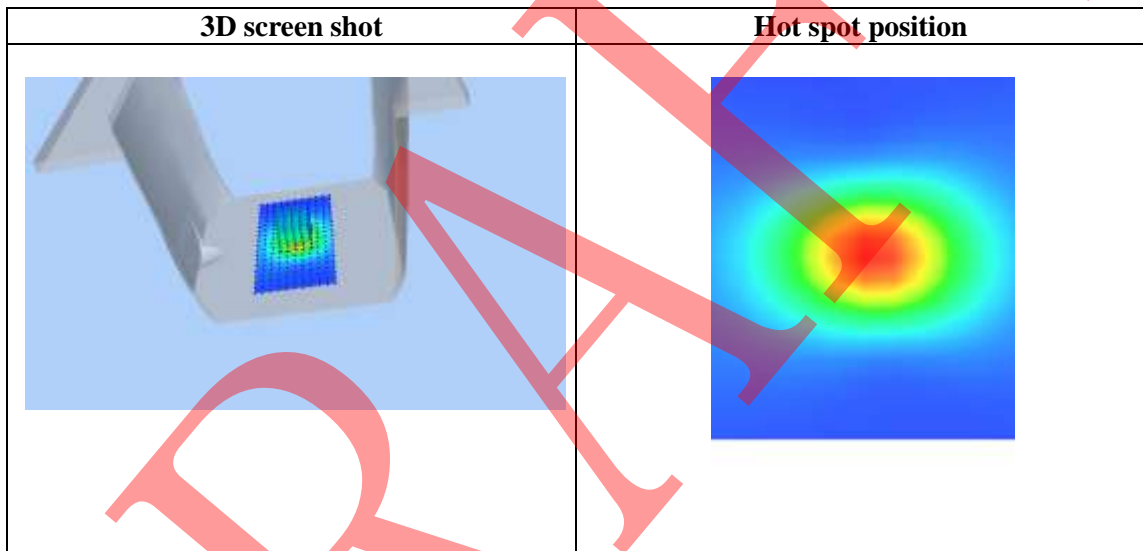
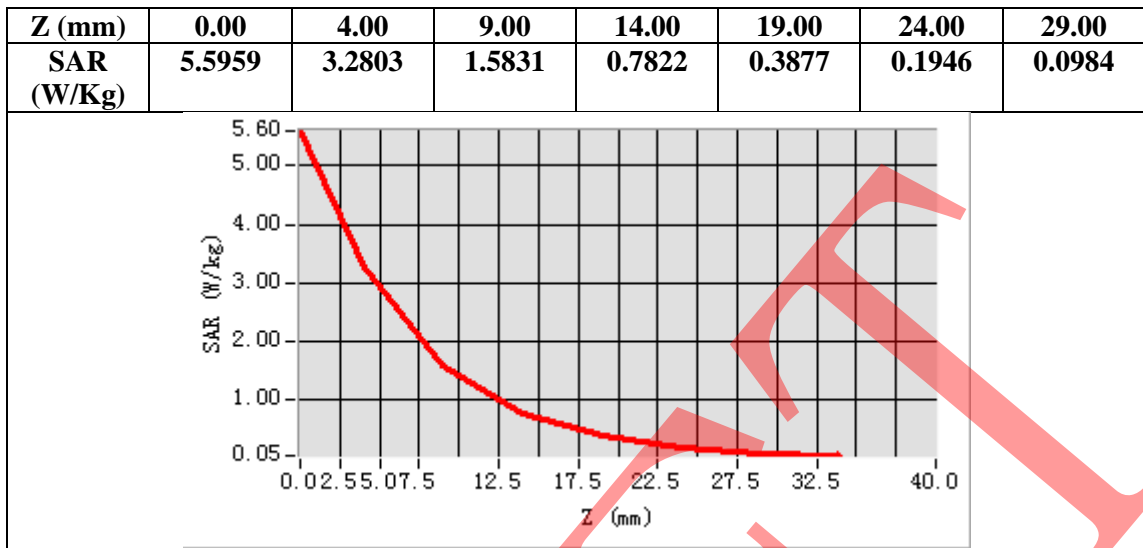
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	SAM twin phantom
Device Position	Flat
Band	CW 2450
Channels	Middle
Signal	Crest factor: 1.0



Maximum location: X=2.00, Y=1.00

SAR Peak: 5.59 W/kg

SAR 10g (W/Kg)	1.483341
SAR 1g (W/Kg)	3.125477



APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab

Date: Dec. 15,2016

GSM 900 Mid-Touch-Left <SIM 1>

DUT: 3G Dual-SIM Smartphone; Type: Volt S

Communication System: Generic GSM; Communication System Band: GSM 900; Duty Cycle: 1: 8; Conv.F=5.39
Frequency: 897.4 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

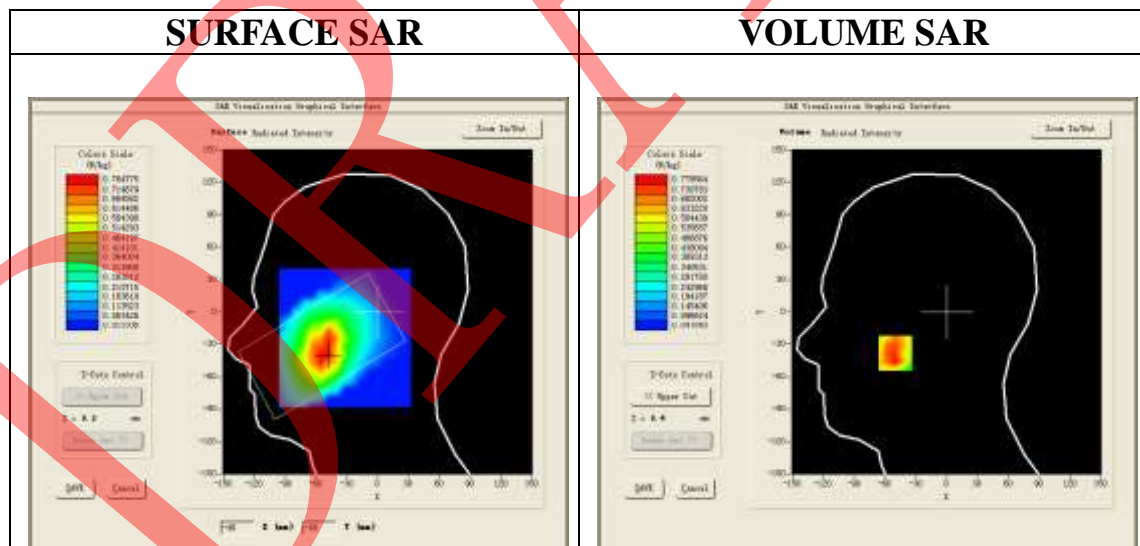
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GSM 900 Mid- Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GSM 900 Mid- Touch-Left/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

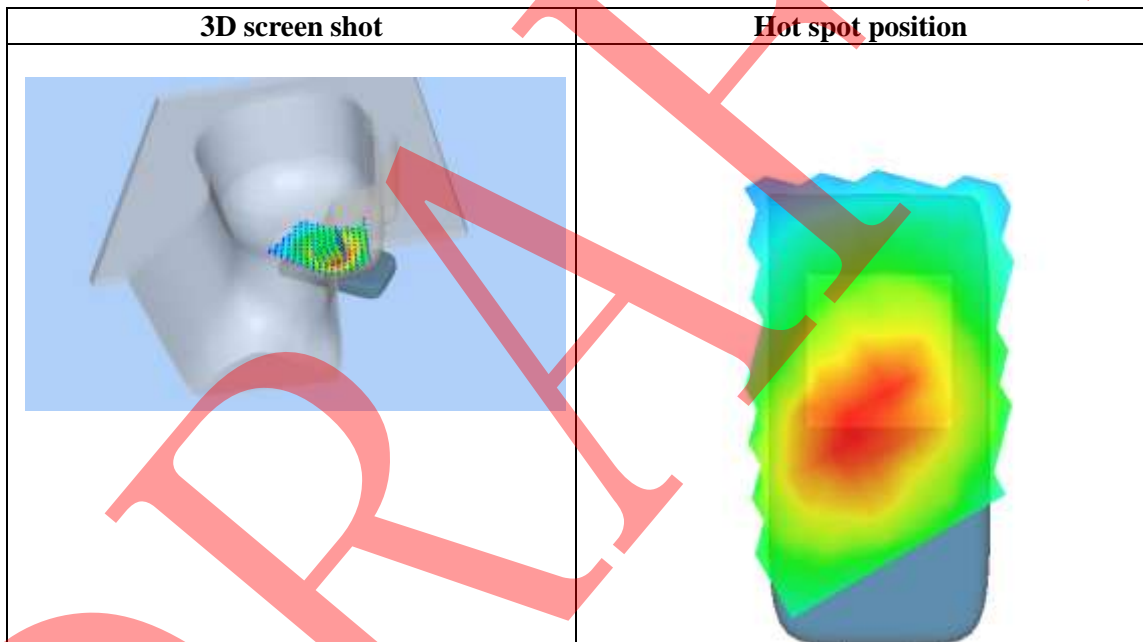
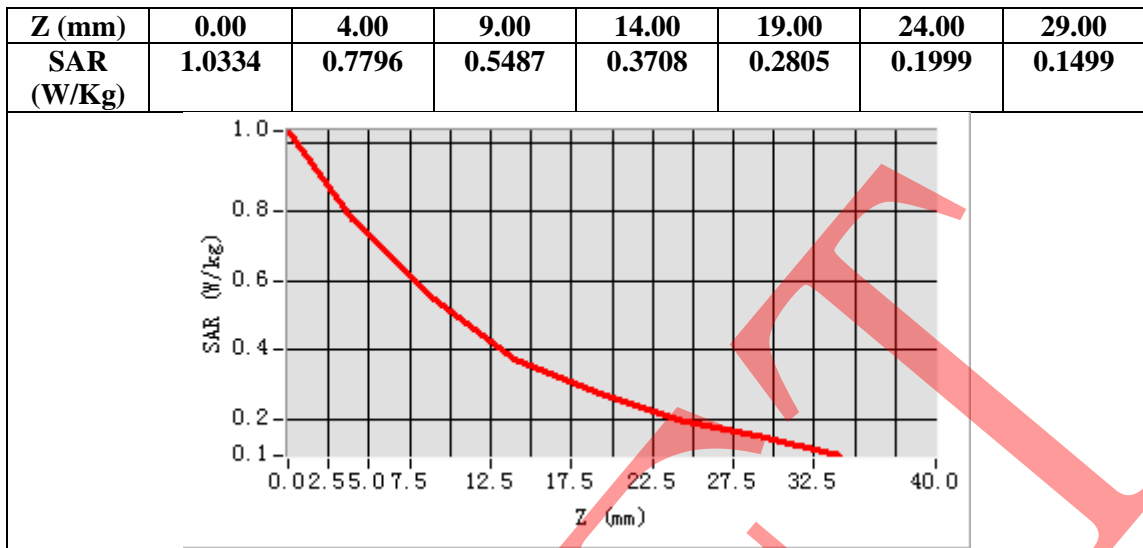
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GSM 900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-50.00, Y=-38.00

SAR Peak: 1.21 W/kg

SAR 10g (W/Kg)	0.486160
SAR 1g (W/Kg)	0.752105



Test Laboratory: AGC Lab
GSM 900 Mid -Tilt-Left <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

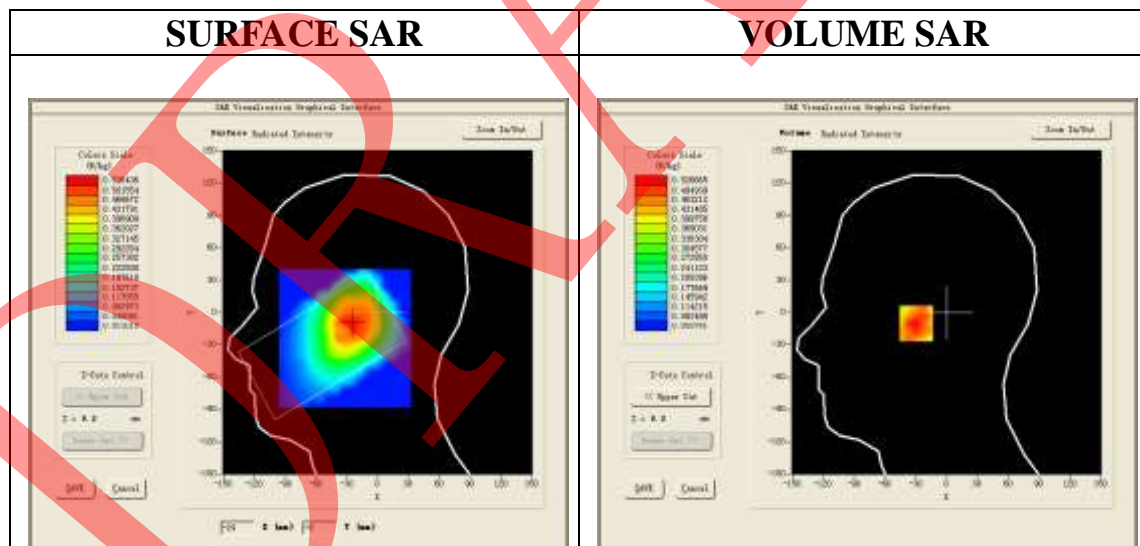
Communication System: Generic GSM; Communication System Band: GSM 900; Duty Cycle: 1: 8; Conv.F=5.39
Frequency: 897.4 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GSM 900 Mid- Tilt-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 900 Mid- Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm,dz=5mm;

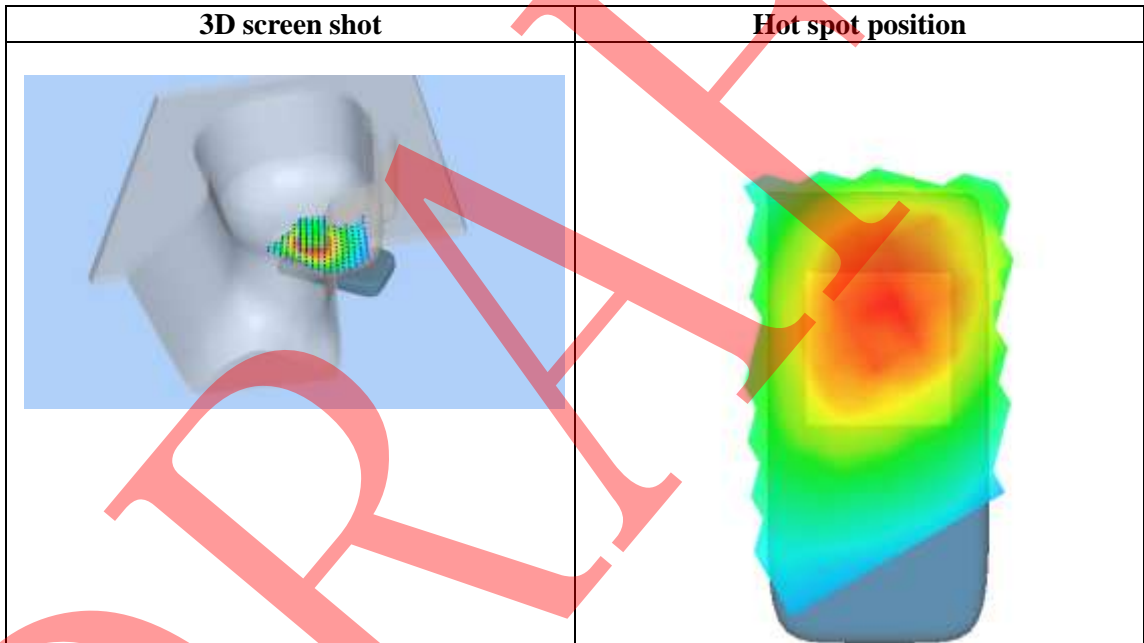
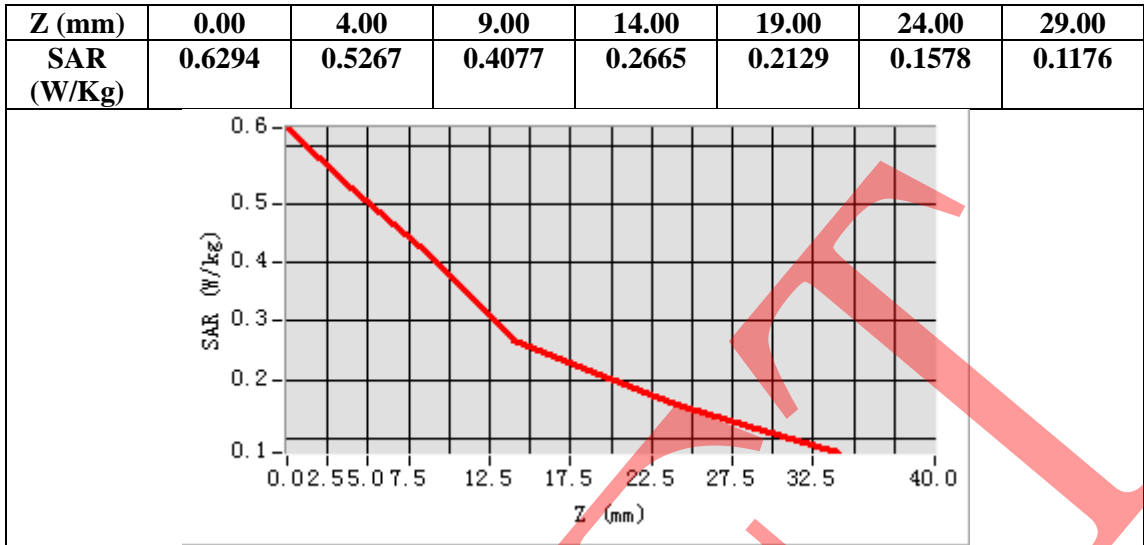
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	GSM 900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-25.00, Y=-10.00

SAR Peak: 0.72 W/kg

SAR 10g (W/Kg)	0.347739
SAR 1g (W/Kg)	0.504550



Test Laboratory: AGC Lab
GSM 900 Mid- Touch-Right <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

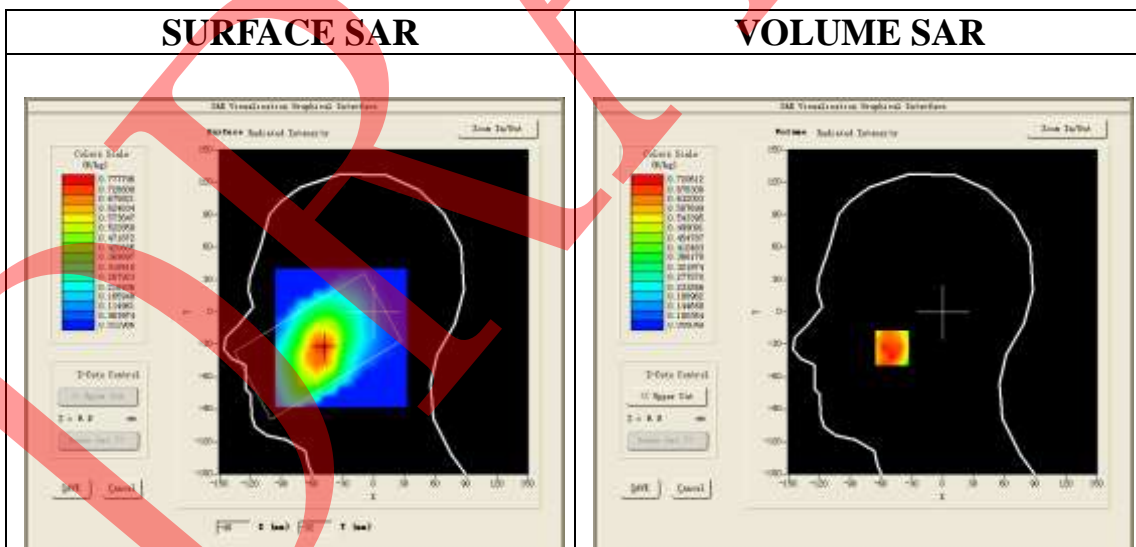
Communication System: Generic GSM; Communication System Band: GSM 900; Duty Cycle: 1: 8; Conv.F=5.39
Frequency: 897.4 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

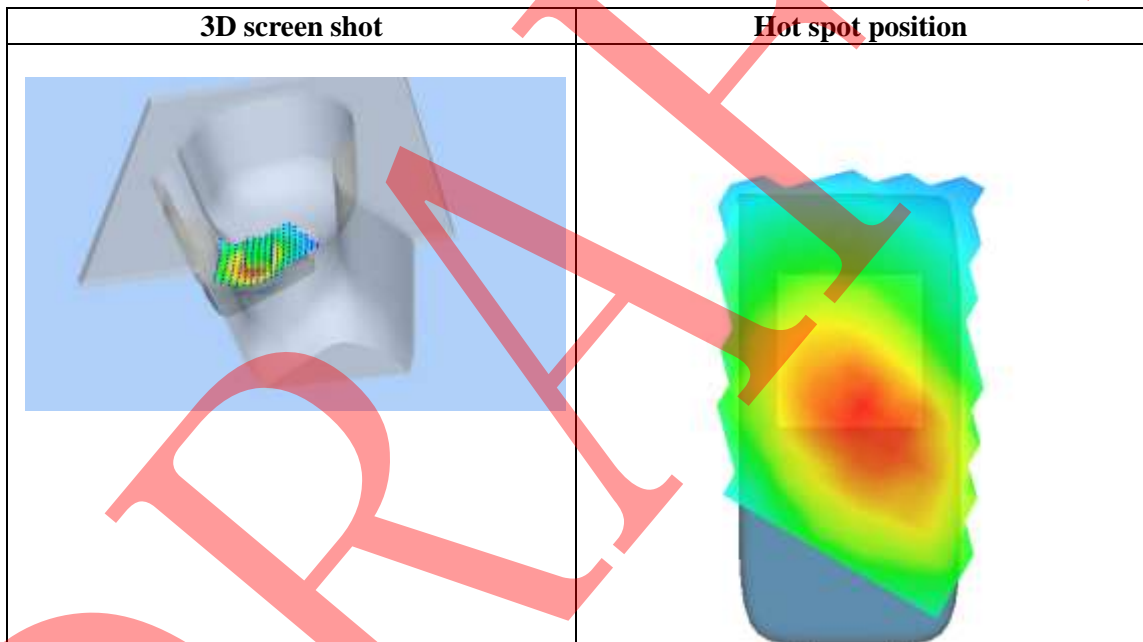
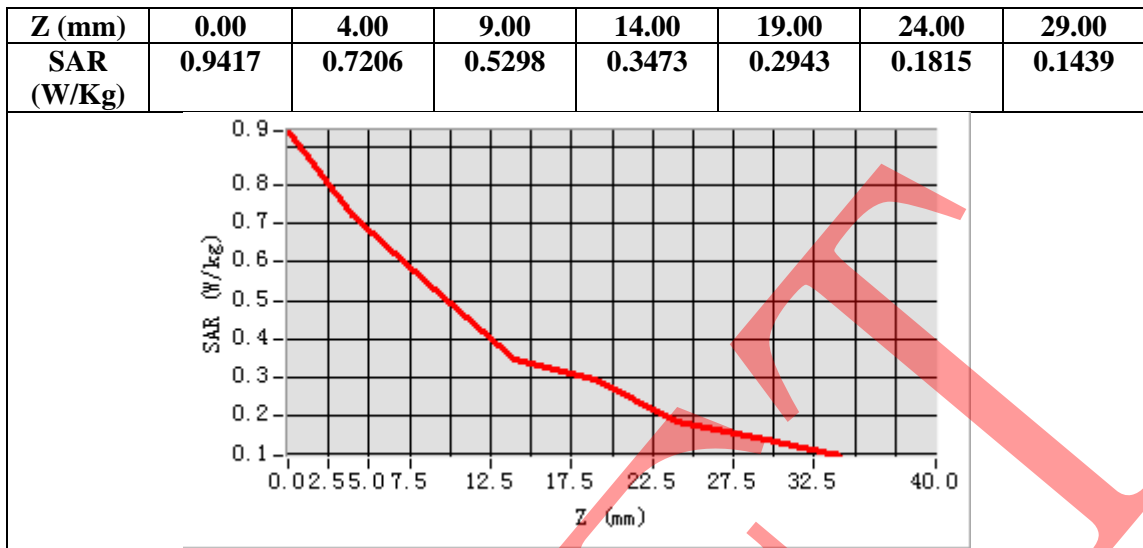
Configuration/GSM 900 Mid- Touch-Right /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 900 Mid- Touch-Right /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	GSM 900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-49.00, Y=-33.00
SAR Peak: 1.04 W/kg

SAR 10g (W/Kg)	0.475323
SAR 1g (W/Kg)	0.698165



Test Laboratory: AGC Lab
GSM 900 Mid-Tilt-Right <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

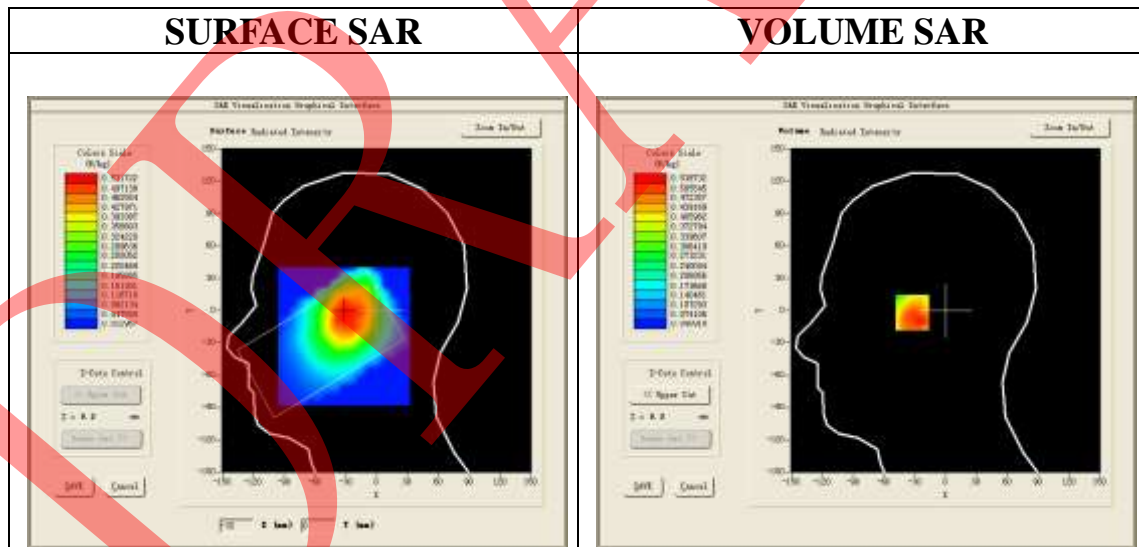
Communication System: Generic GSM; Communication System Band: GSM 900; Duty Cycle: 1: 8; Conv.F=5.39
Frequency: 897.4 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GSM 900 Mid- Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 900 Mid- Tilt-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Tilt
Band	GSM 900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

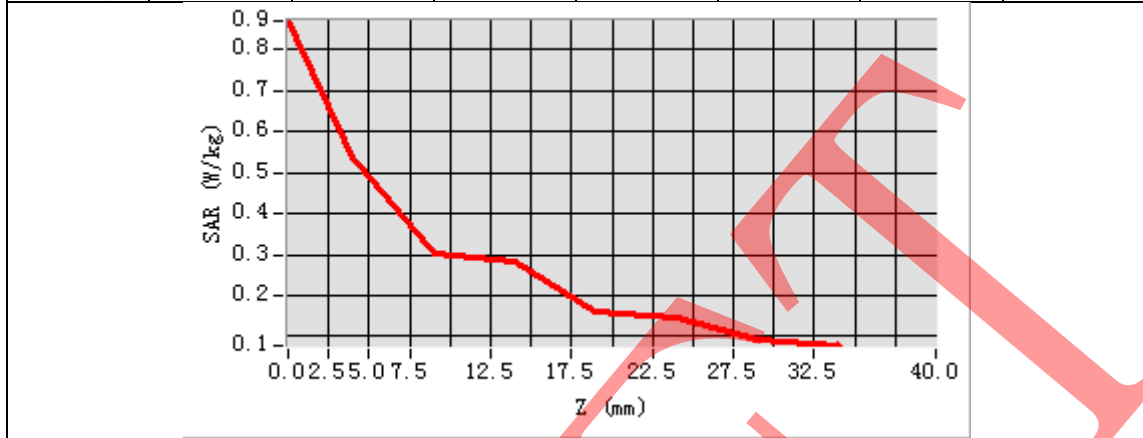


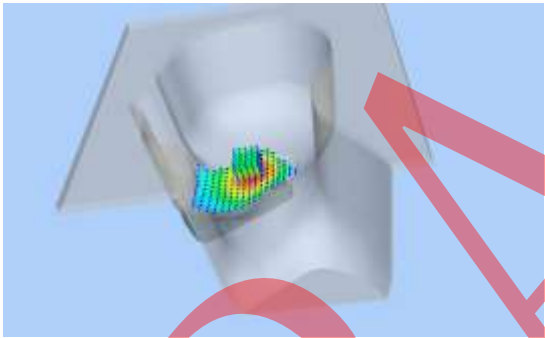
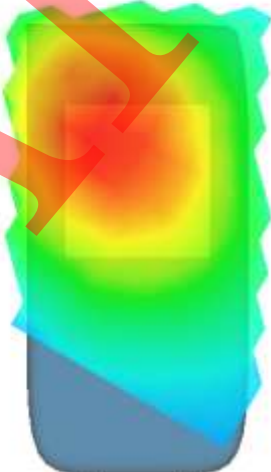
Maximum location: X=-31.00, Y=0.00

SAR Peak: 0.75 W/kg

SAR 10g (W/Kg)	0.355347
SAR 1g (W/Kg)	0.513882

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8710	0.5387	0.3026	0.2837	0.1591	0.1472	0.0907



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab
GSM900 Mid-Body-Worn- Back (MS) <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

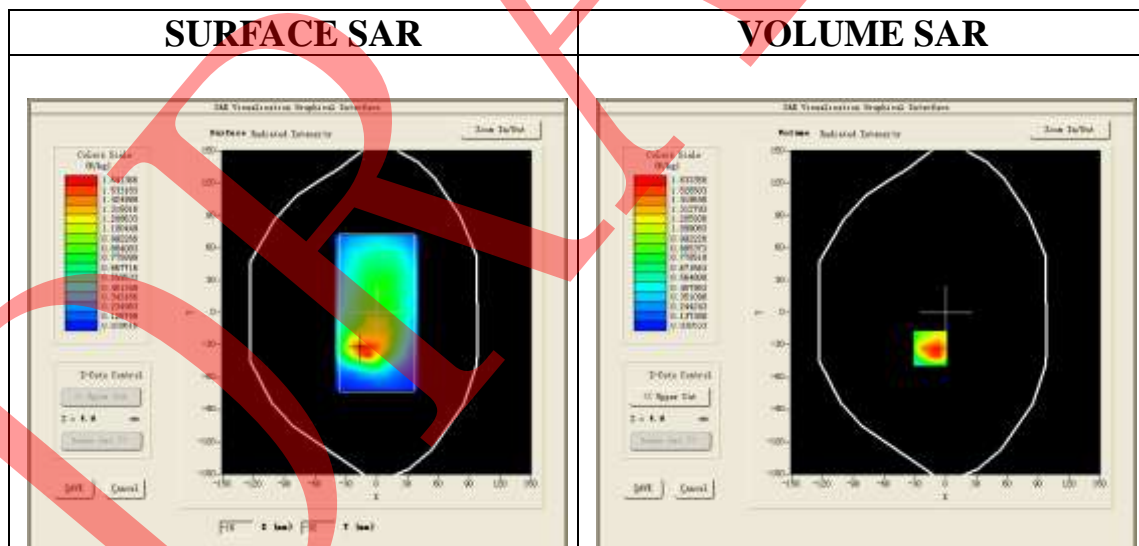
Communication System: Generic GSM; Communication System Band: GSM900; Duty Cycle: 1:8; Conv.F=5.39
Frequency: 897.4 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GSM 900 Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 900 Mid- Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

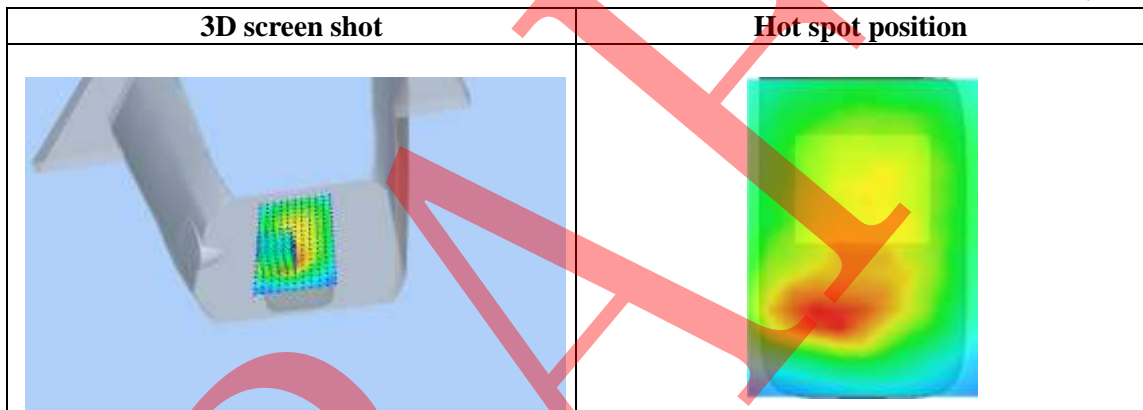
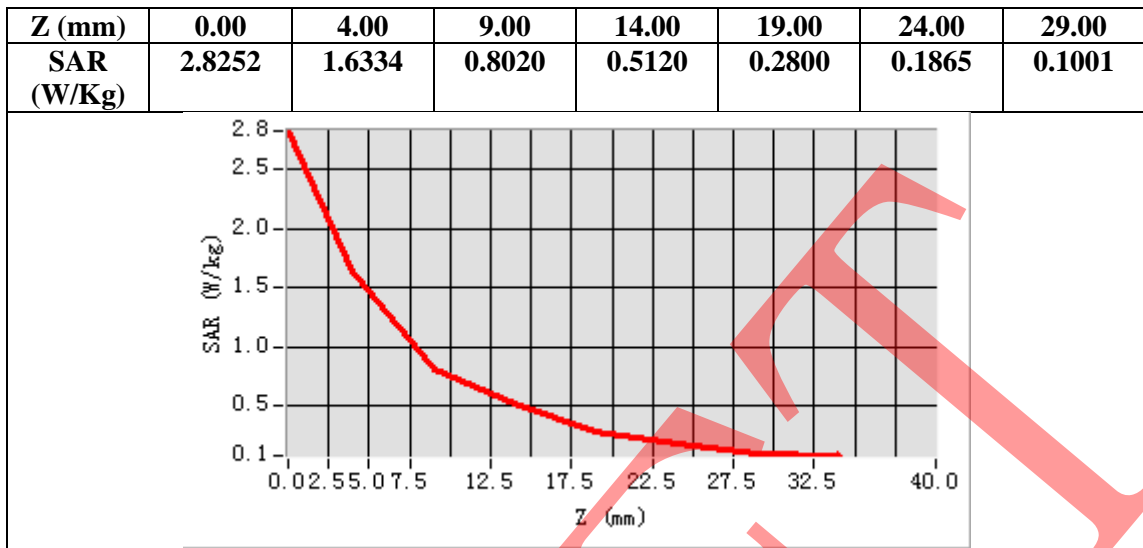
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	GSM 900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-15.00, Y=-33.00

SAR Peak: 2.72 W/kg

SAR 10g (W/Kg)	0.837697
SAR 1g (W/Kg)	1.582826



Test Laboratory: AGC Lab
GPRS 900 Mid-Body- Worn- Back (2up) <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

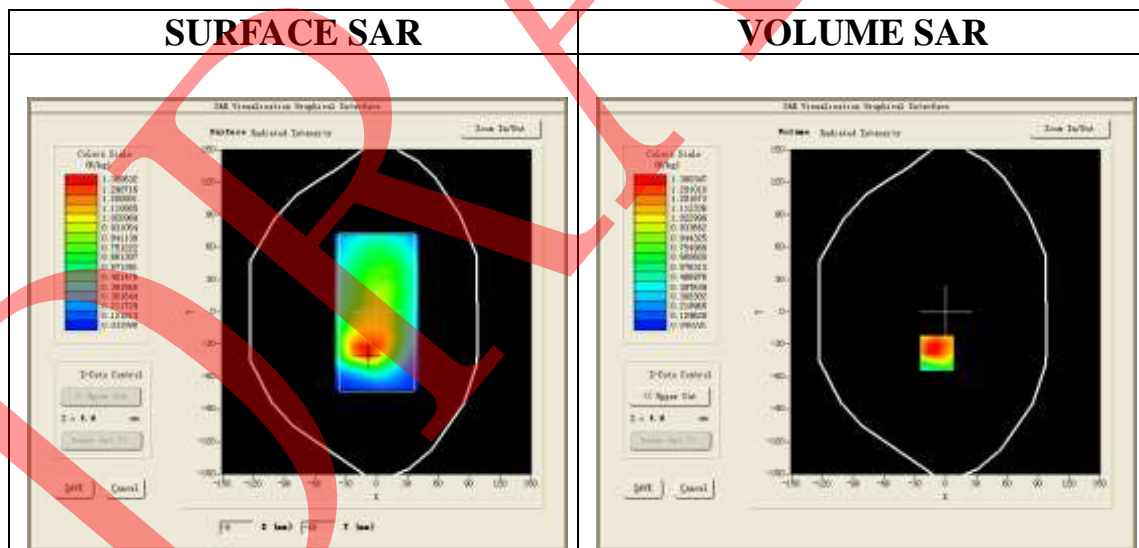
Communication System: GPRS-2 Slot; Communication System Band: GSM 900;Duty Cycle:1:4.2 ; Conv.F=5.39
Frequency: 897.4 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 900 Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 900 Mid- Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

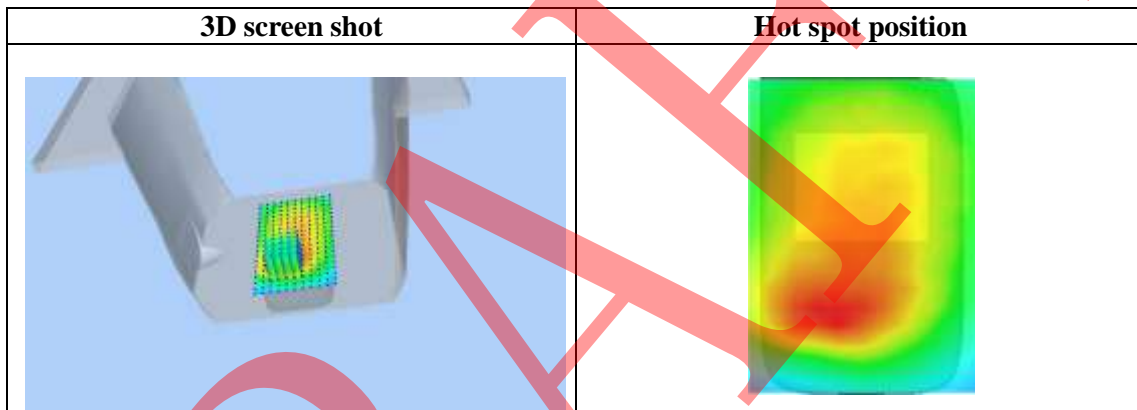
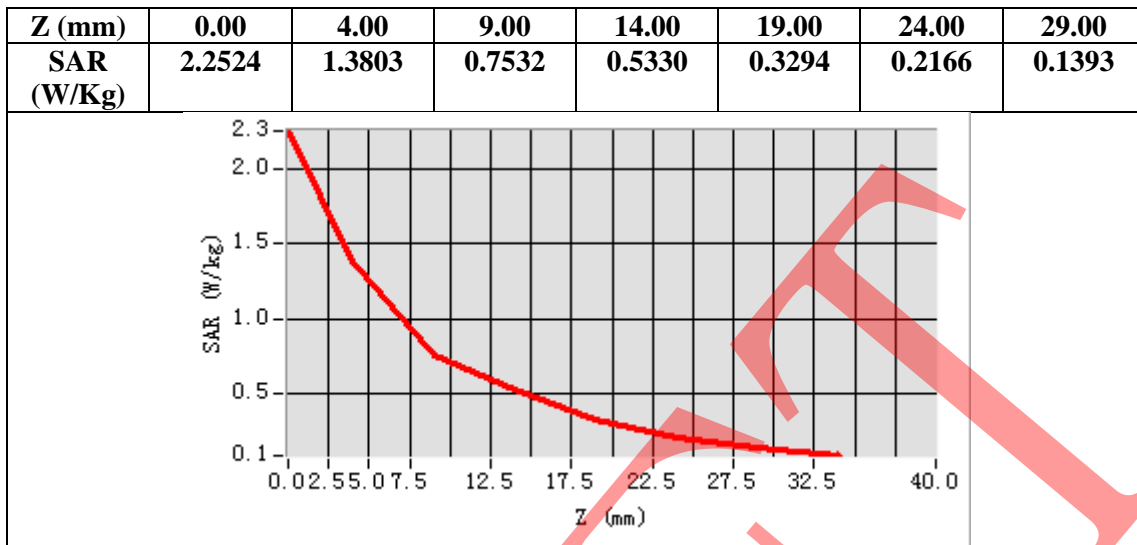
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	GSM 900
Channels	Middle
Signal	TDMA (Crest factor: 4.0)



Maximum location: X=-9.00, Y=-38.00

SAR Peak: 2.06 W/kg

SAR 10g (W/Kg)	0.825275
SAR 1g (W/Kg)	1.365675



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Test Laboratory: AGC Lab
GPRS 900 Mid-Body- Worn- Back (3up) <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

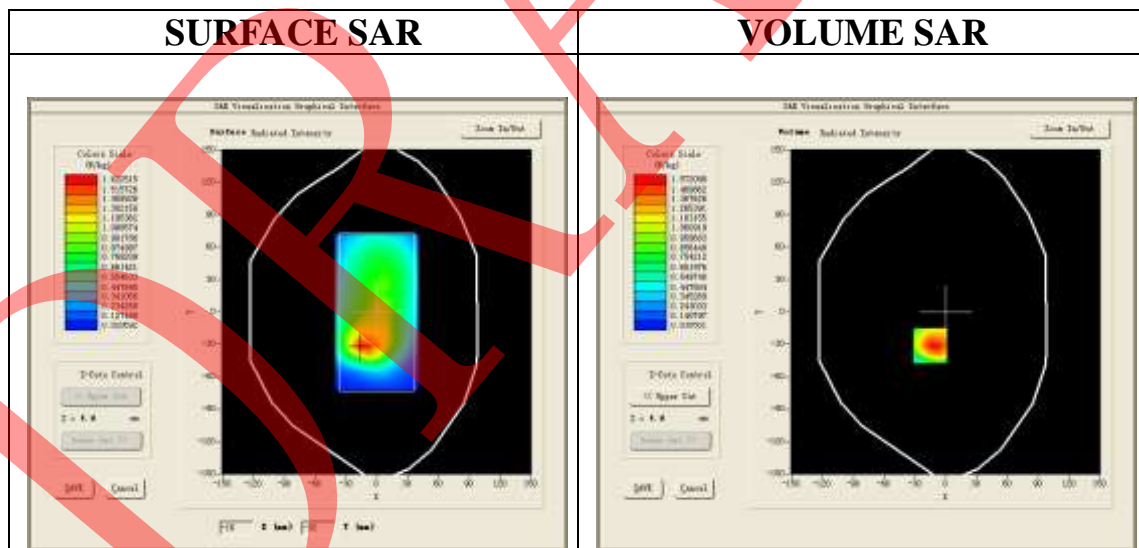
Communication System: GPRS-3 Slot; Communication System Band: GSM 900;Duty Cycle:1:2.7 ; Conv.F=5.39
Frequency: 897.4 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 900 Mid-Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 900 Mid-Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

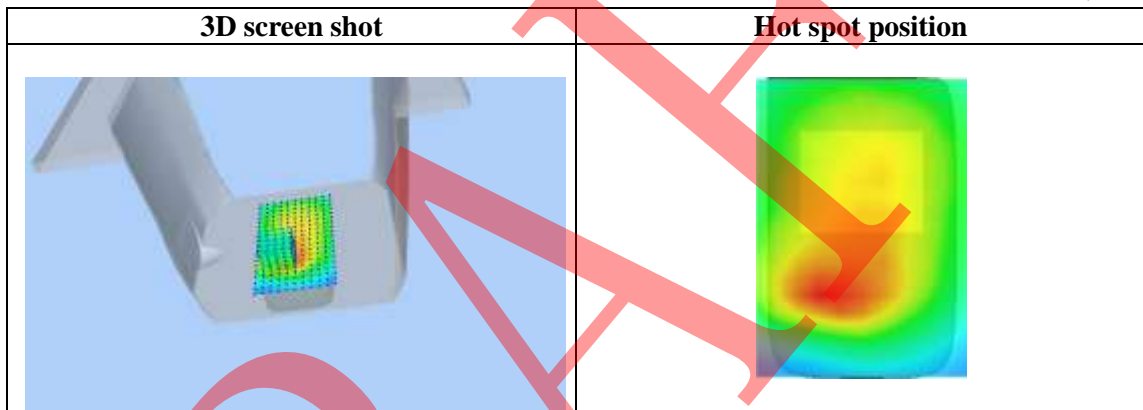
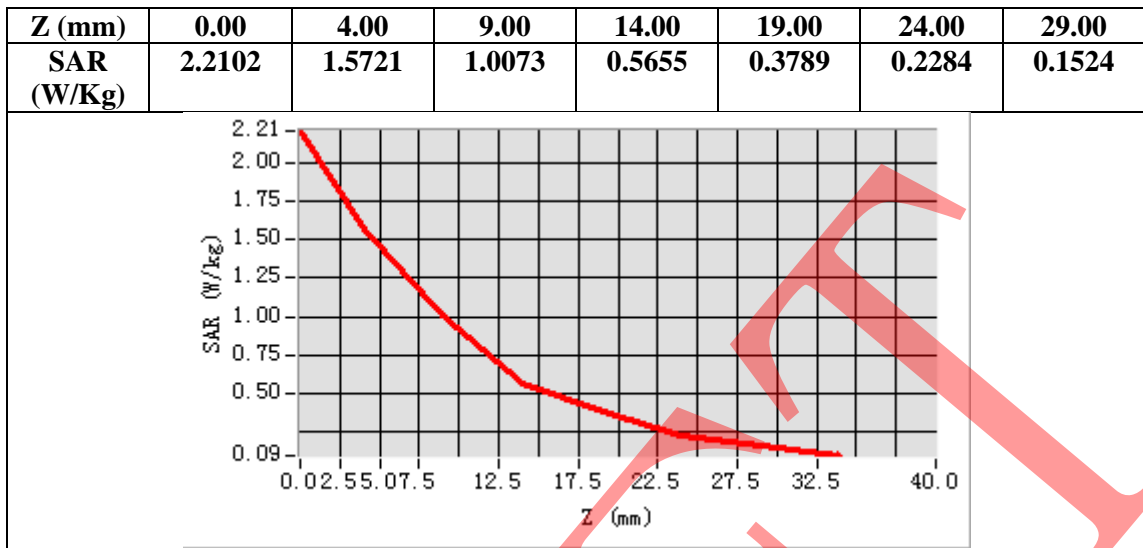
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	GSM 900
Channels	Middle
Signal	TDMA (Crest factor: 2.7)



Maximum location: X=-15.00, Y=-31.00

SAR Peak: 2.42 W/kg

SAR 10g (W/Kg)	0.888510
SAR 1g (W/Kg)	1.520795



Test Laboratory: AGC Lab
GPRS 900 Low-Body- Worn- Back (4up) <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

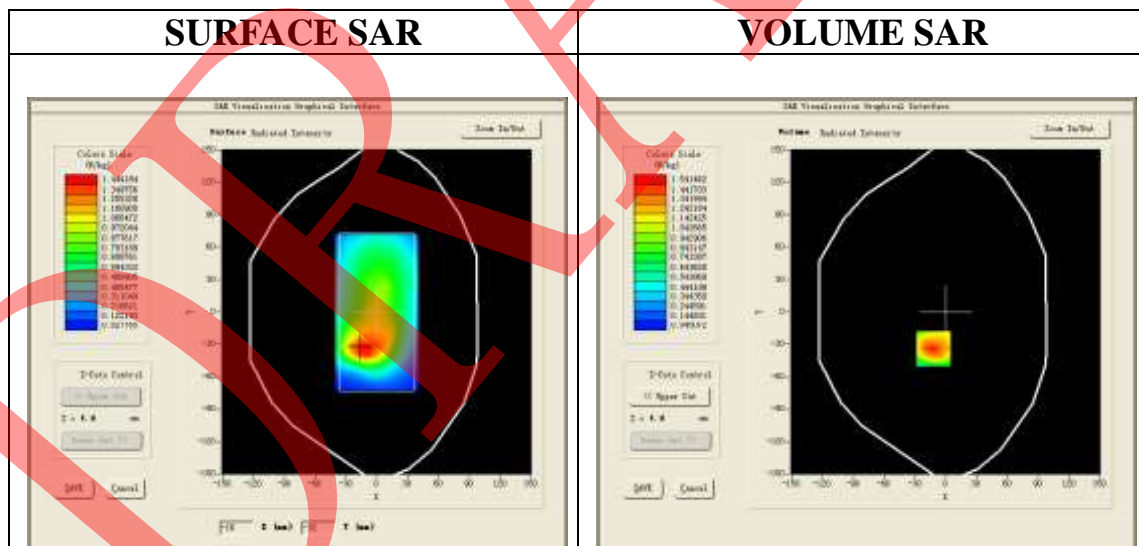
Communication System: GPRS-4 Slot; Communication System Band: GSM 900;Duty Cycle:1:2.1 ; Conv.F=5.39
Frequency: 880.2MHz; Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 41.11$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 20.8, Liquid temperature ($^{\circ}\text{C}$): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 900 Low - Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 900 Low - Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

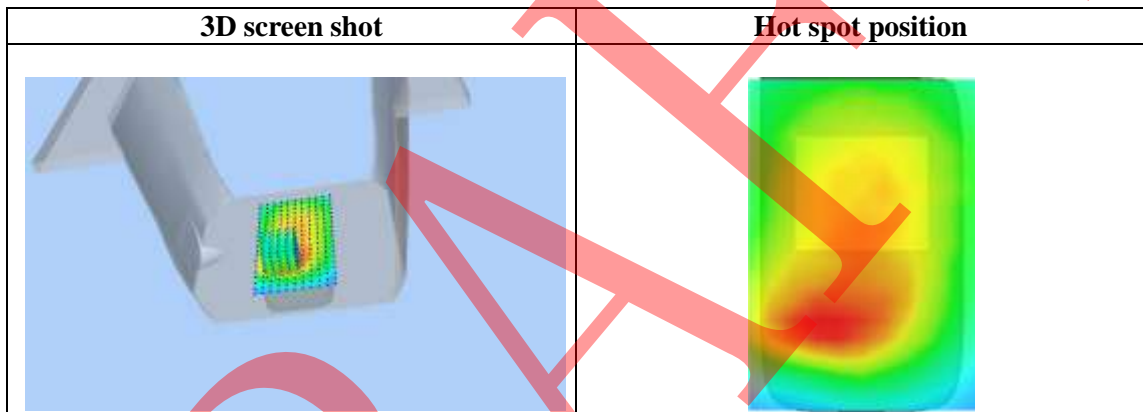
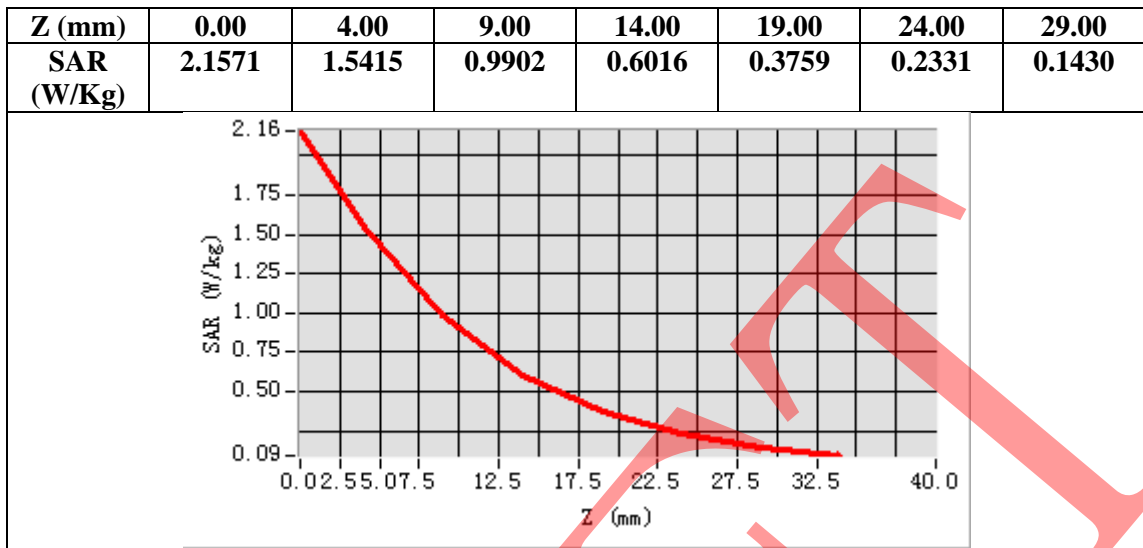
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	GSM 900
Channels	Low
Signal	TDMA (Crest factor: 2.0)



Maximum location: X=-12.00, Y=-34.00

SAR Peak: 2.24 W/kg

SAR 10g (W/Kg)	0.852078
SAR 1g (W/Kg)	1.437696



Test Laboratory: AGC Lab
GPRS 900 Mid-Body- Worn- Back (4up) <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

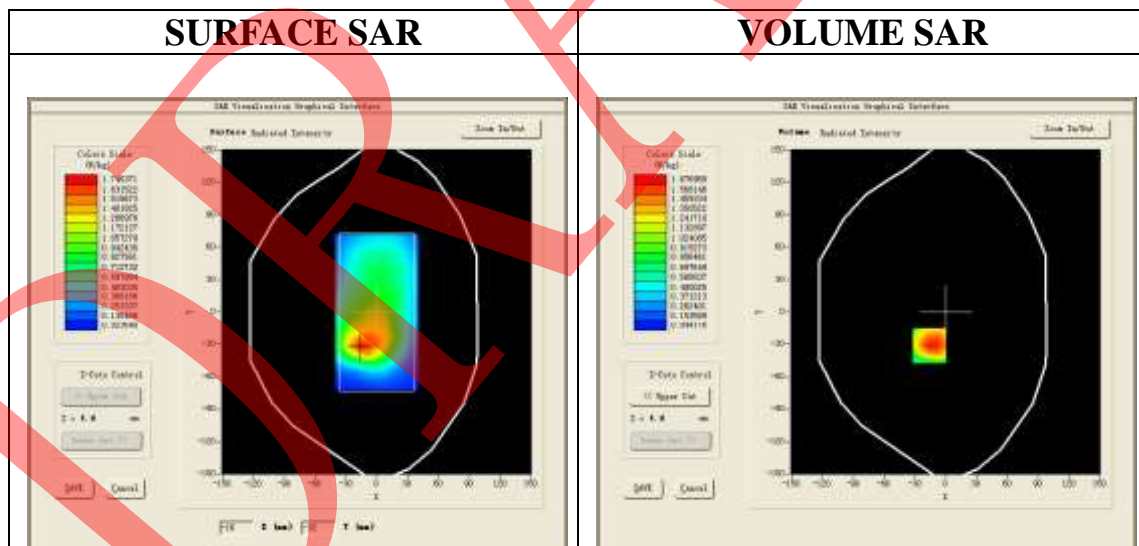
Communication System: GPRS-4 Slot; Communication System Band: GSM 900;Duty Cycle:1:2.1 ; Conv.F=5.39
Frequency: 897.4 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 900 Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 900 Mid- Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

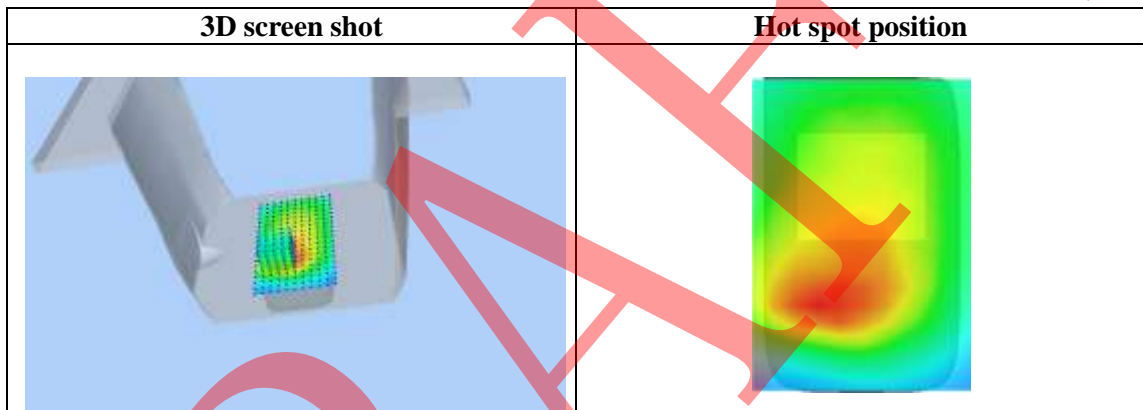
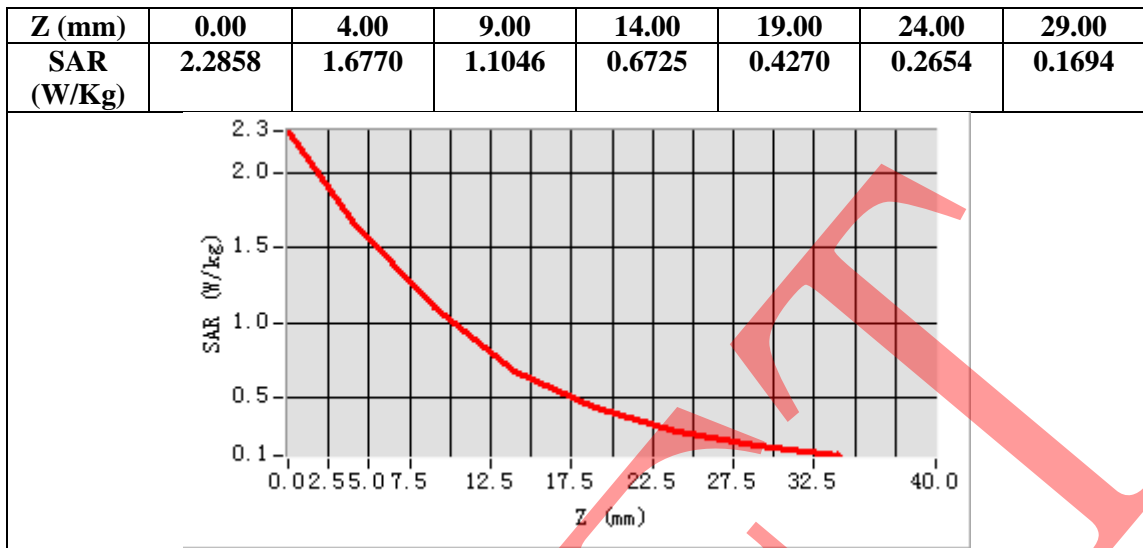
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	GSM 900
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



Maximum location: X=-16.00, Y=-31.00

SAR Peak: 2.37 W/kg

SAR 10g (W/Kg)	0.970131
SAR 1g (W/Kg)	1.597235



Test Laboratory: AGC Lab
GPRS 900 High-Body- Worn- Back (4up) <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

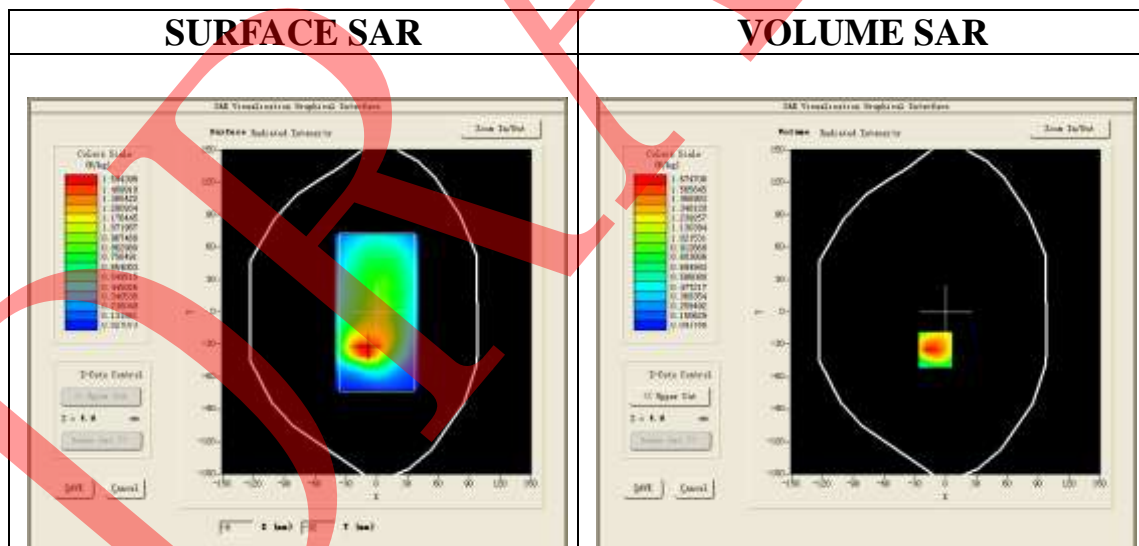
Communication System: GPRS-4 Slot; Communication System Band: GSM 900;Duty Cycle:1:2.1 ; Conv.F=5.39
Frequency: 914.8 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 900 High - Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 900 High - Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

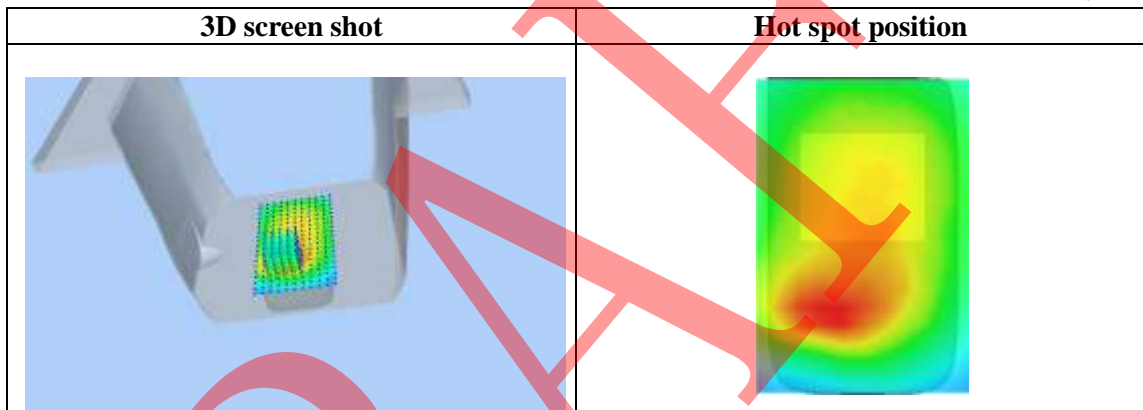
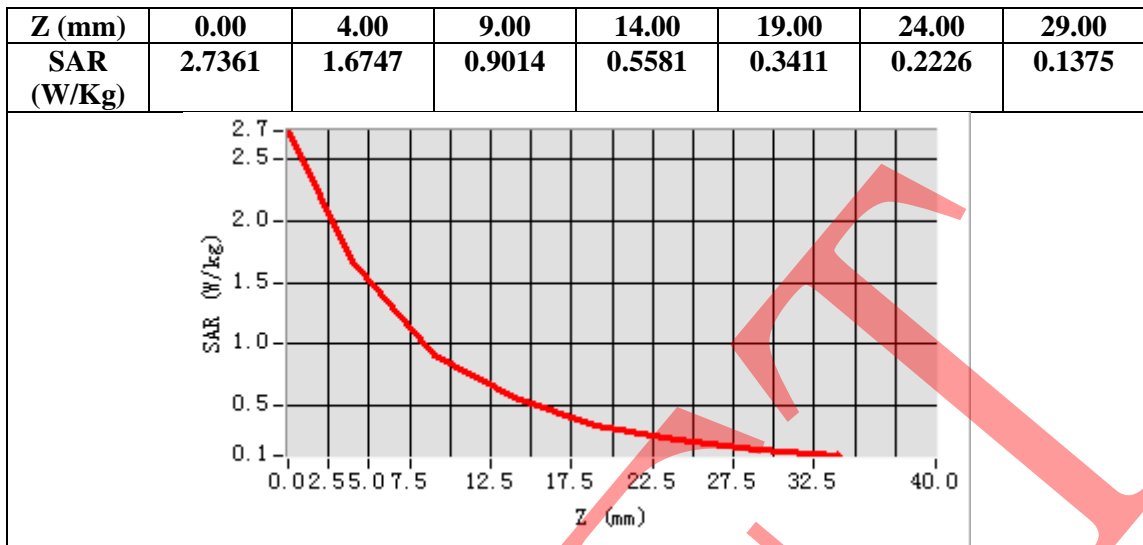
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	GSM 900
Channels	High
Signal	TDMA (Crest factor: 2.0)



Maximum location: X=-10.00, Y=-35.00

SAR Peak: 2.62 W/kg

SAR 10g (W/Kg)	0.902442
SAR 1g (W/Kg)	1.595980



Test Laboratory: AGC Lab
GPRS 900 Mid-Body- Worn- Front (4up) <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

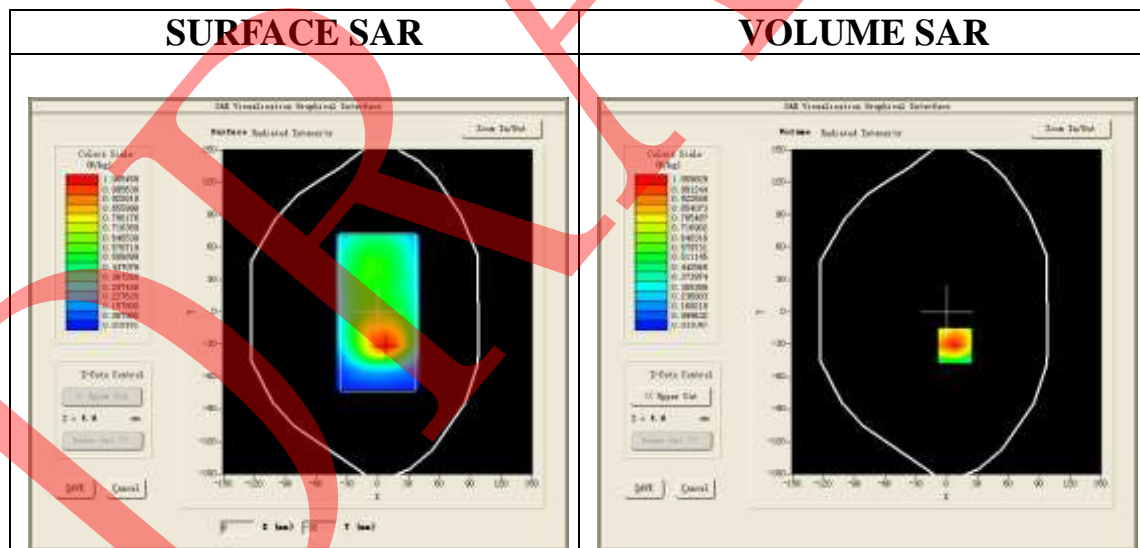
Communication System: GPRS-4 Slot; Communication System Band: GSM 900;Duty Cycle:1:2.1 ; Conv.F=5.39
Frequency: 897.4 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 900 Mid- Body- Front /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 900 Mid- Body- Front /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

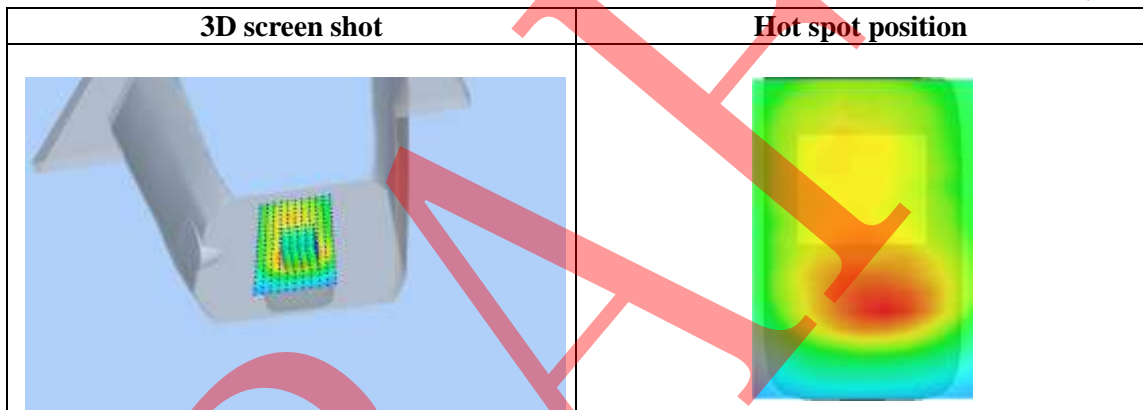
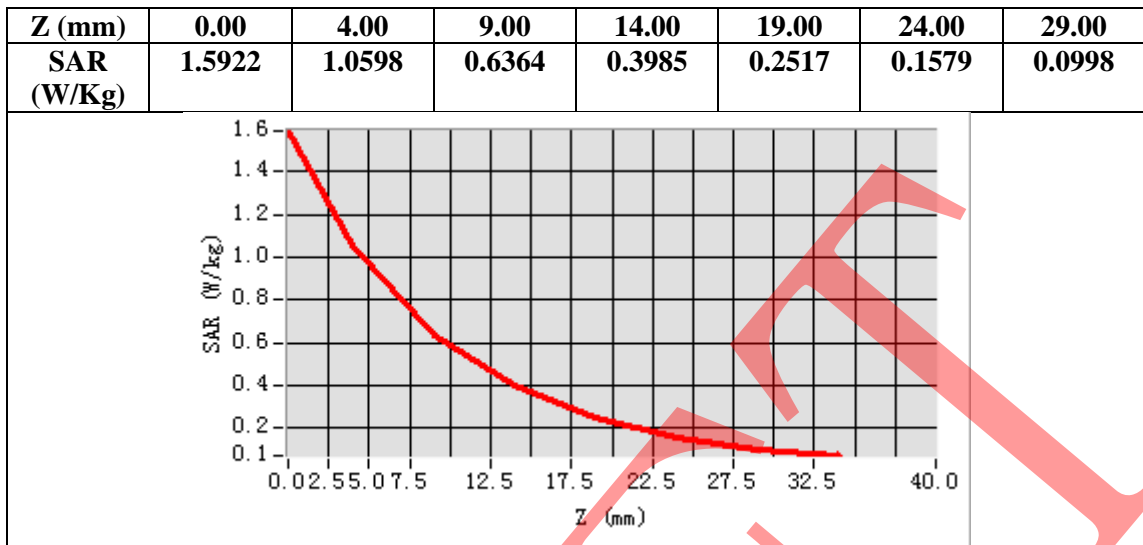
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Front
Band	GSM 900
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



Maximum location: X=8.00, Y=-31.00

SAR Peak: 1.58 W/kg

SAR 10g (W/Kg)	0.602816
SAR 1g (W/Kg)	0.999155



Test Laboratory: AGC Lab
GPRS 900 Mid-Body- Worn- Back (4up) –with earphone <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

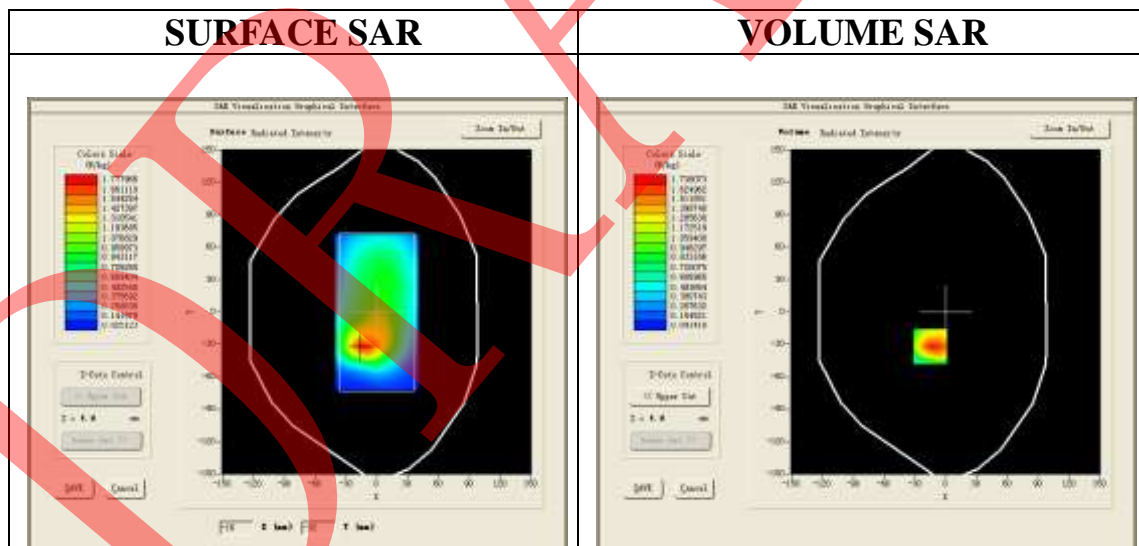
Communication System: GPRS-4 Slot; Communication System Band: GSM 900;Duty Cycle:1:2.1 ; Conv.F=5.39
Frequency: 897.4 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 900 Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 900 Mid- Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

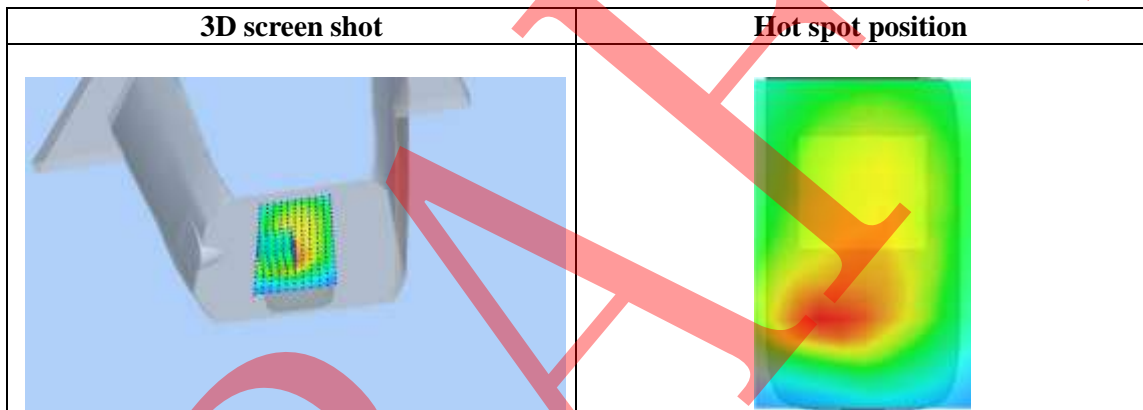
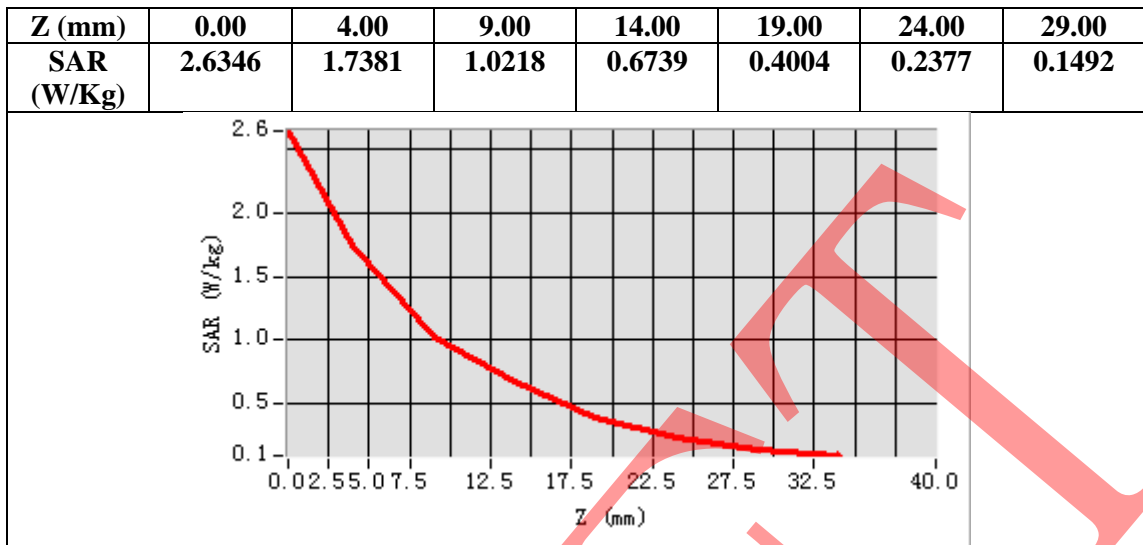
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	GSM 900
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



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

SAR Peak: 2.61 W/kg

SAR 10g (W/Kg)	0.950099
SAR 1g (W/Kg)	1.644569



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Test Laboratory: AGC Lab
GPRS 900 Mid-Body- Worn- Back (4up) <SIM 2>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

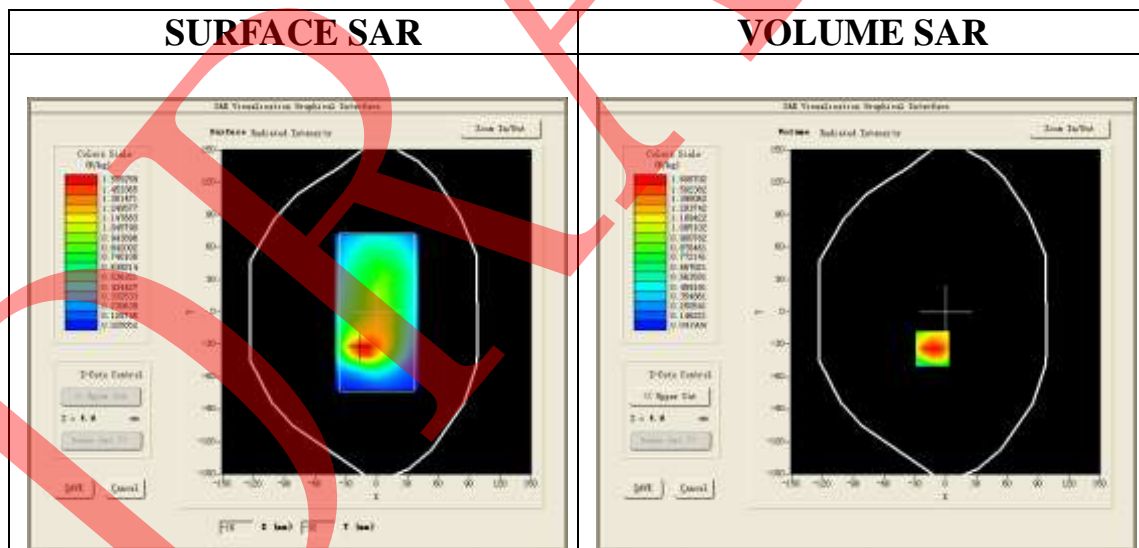
Communication System: GPRS-4 Slot; Communication System Band: GSM 900;Duty Cycle:1:2.1 ; Conv.F=5.39
Frequency: 897.4 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 900 Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 900 Mid- Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

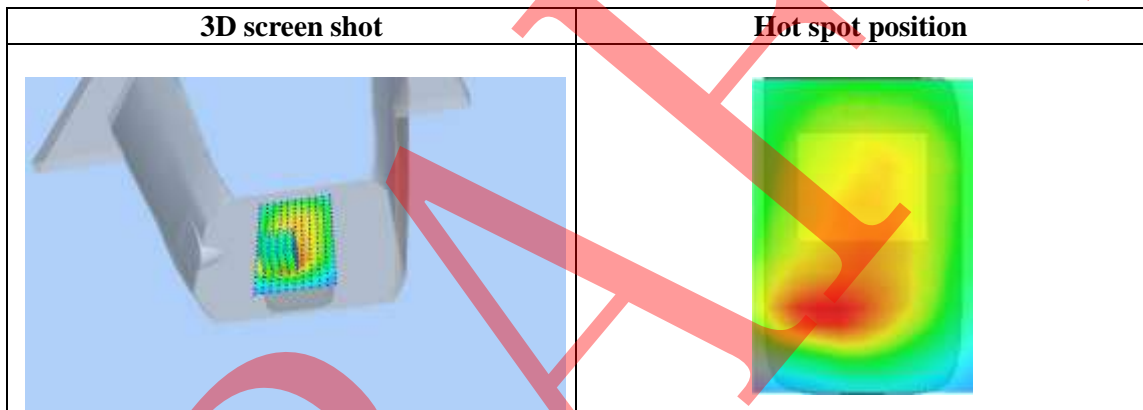
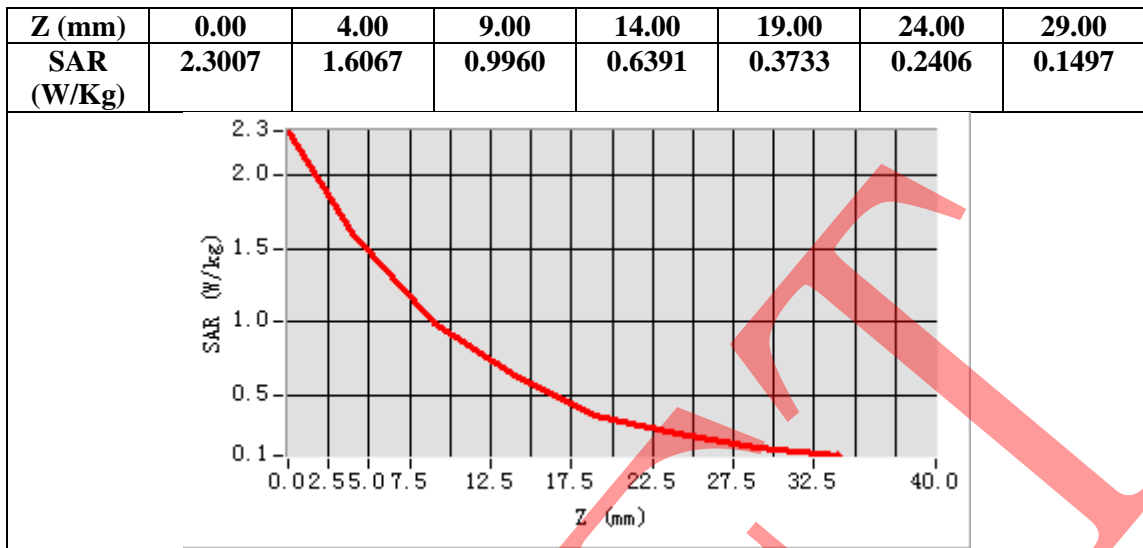
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	GSM 900
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



Maximum location: X=-13.00, Y=-34.00

SAR Peak: 2.56 W/kg

SAR 10g (W/Kg)	0.896194
SAR 1g (W/Kg)	1.536772



Test Laboratory: AGC Lab
DCS 1800 Mid-Touch-Left <SIM1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

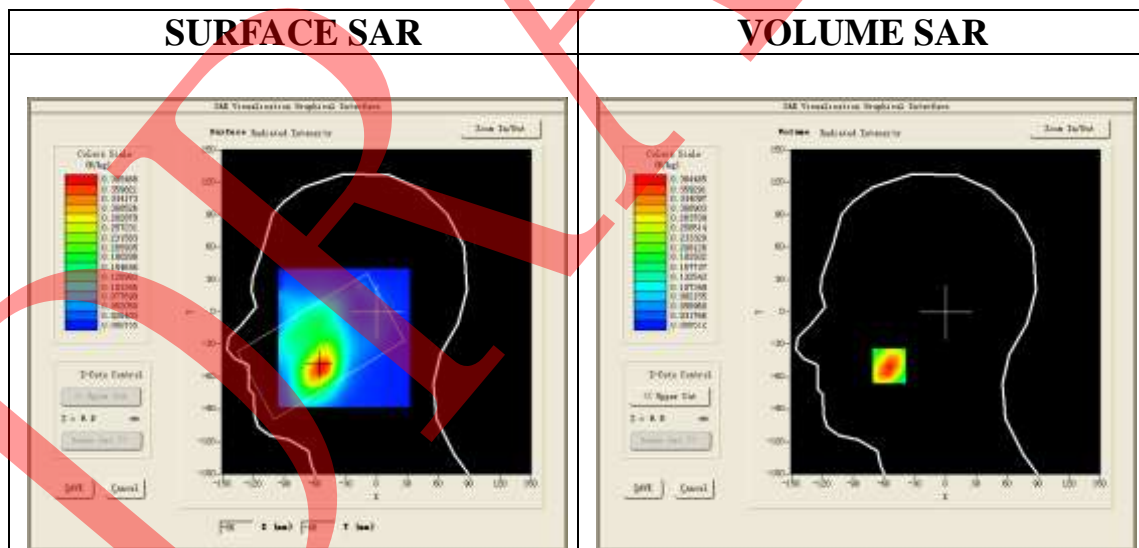
Communication System: Generic GSM; Communication System Band: DCS 1800; Duty Cycle: 1:8; Conv.F=4.98
Frequency: 1747.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/DCS1800 Mid- Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/DCS1800 Mid- Touch-Left/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	DCS 1800
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

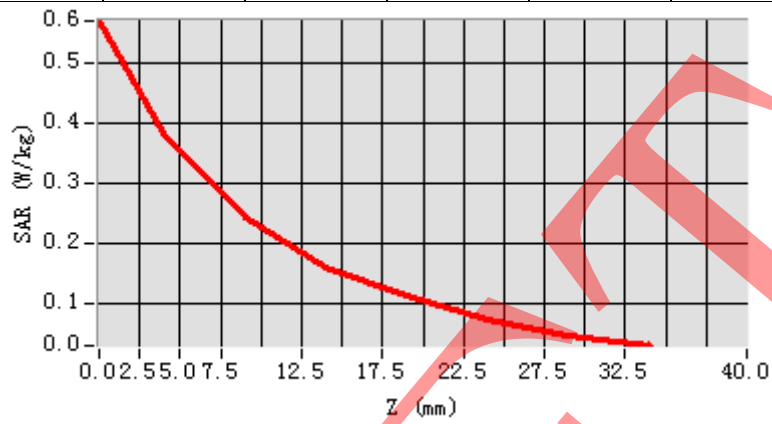


Maximum location: X=-55.00, Y=-50.00

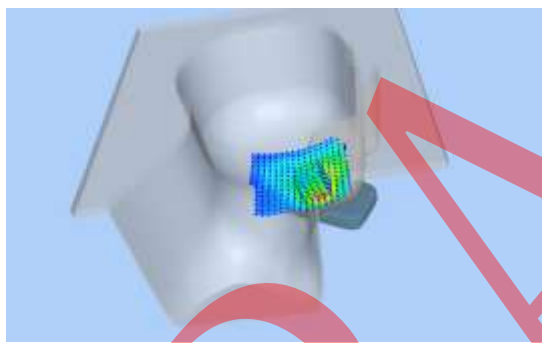
SAR Peak: 0.58 W/kg

SAR 10g (W/Kg)	0.214885
SAR 1g (W/Kg)	0.371183

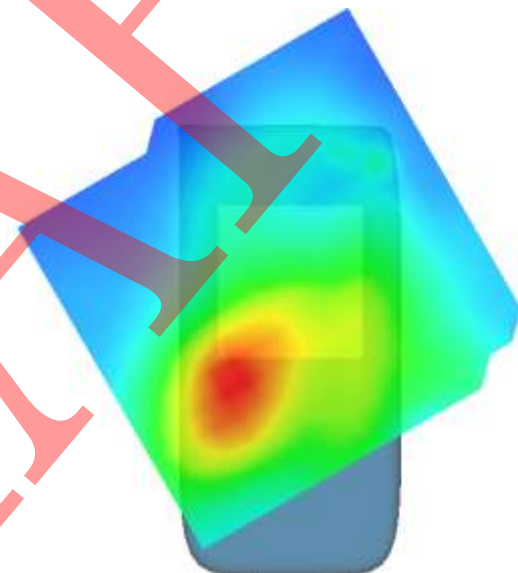
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5705	0.3845	0.2423	0.1597	0.1124	0.0715	0.0448



3D screen shot



Hot spot position



Test Laboratory: AGC Lab
DCS 1800 Mid-Tilt-Left <SIM1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

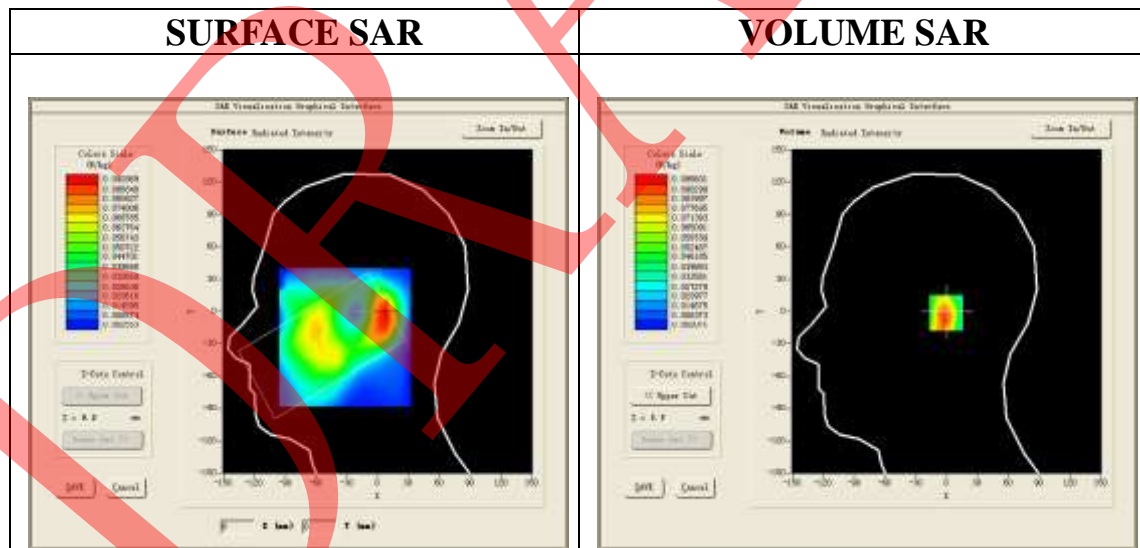
Communication System: Generic GSM; Communication System Band: DCS 1800; Duty Cycle: 1:8; Conv.F=4.98
Frequency: 1747.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

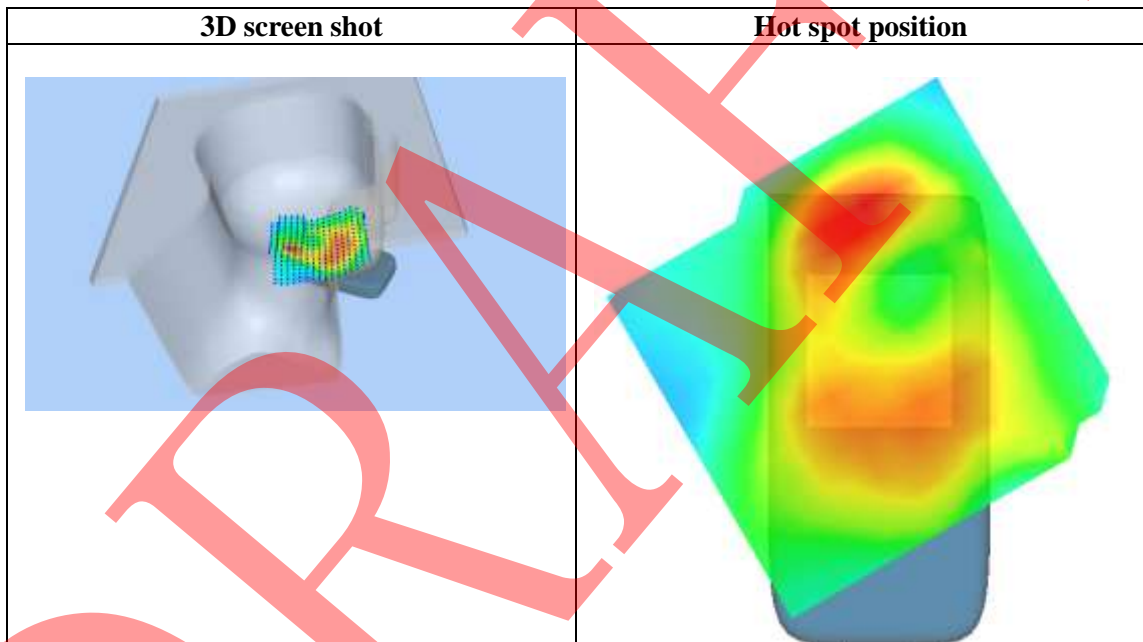
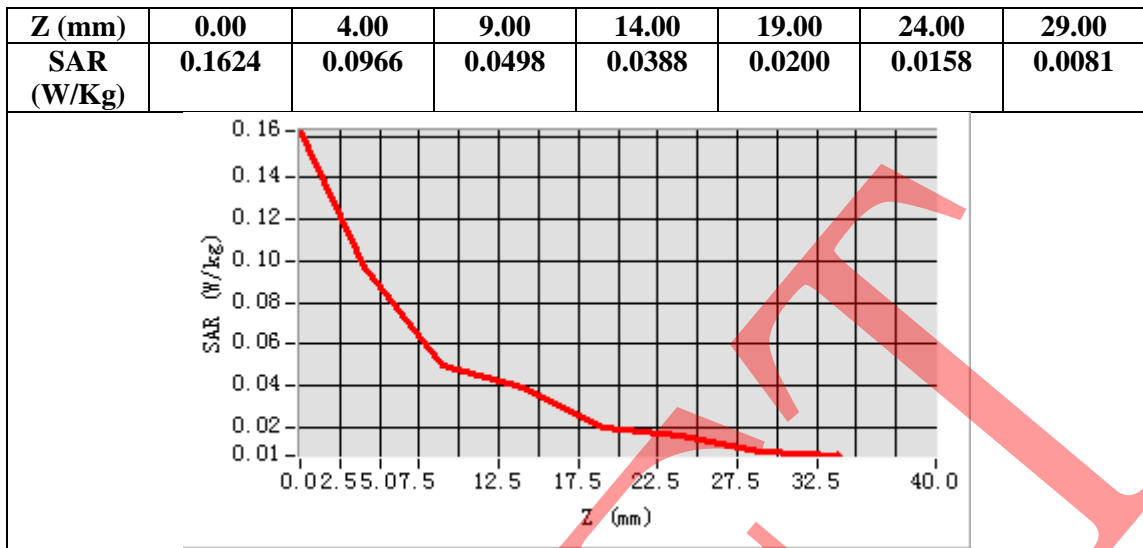
Configuration/DCS1800 Mid- Tilt-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/DCS1800 Mid- Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm,dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	DCS 1800
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=7.00, Y=-1.00
SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.052303
SAR 1g (W/Kg)	0.091029



Test Laboratory: AGC Lab
DCS 1800 Mid-Touch -Right <SIM1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

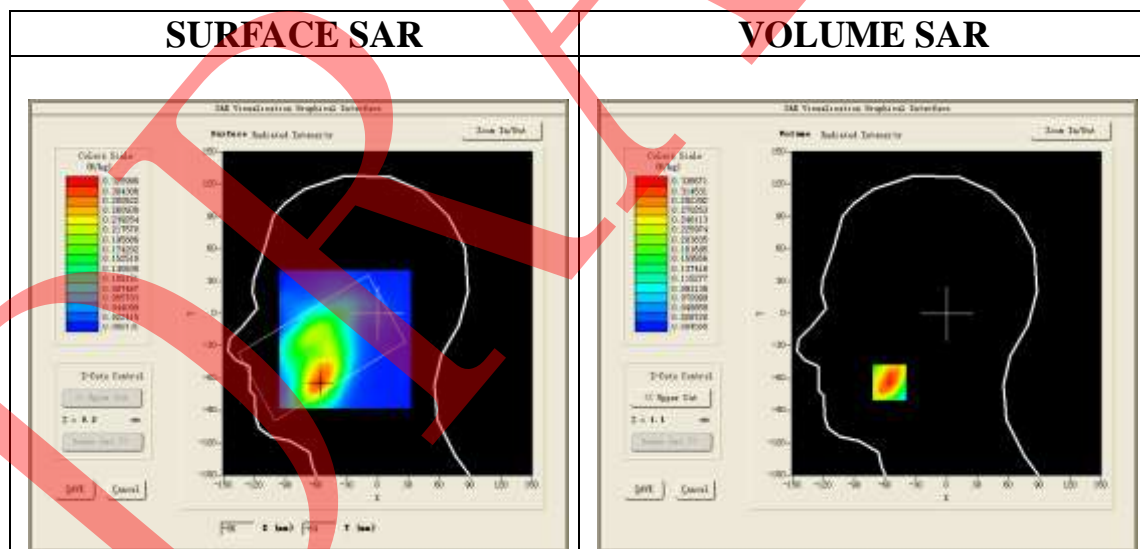
Communication System: Generic GSM; Communication System Band: DCS 1800; Duty Cycle: 1:8; Conv.F=4.98
Frequency: 1747.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/DCS1800 Mid- Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/DCS1800 Mid- Touch-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	DCS 1800
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

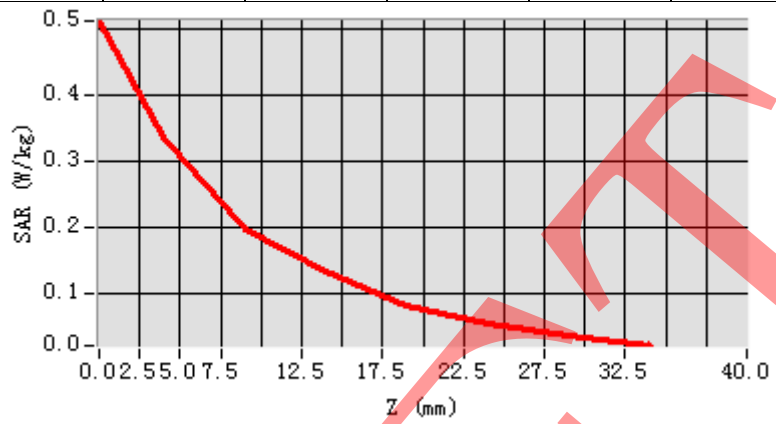


Maximum location: X=-56.00, Y=-64.00

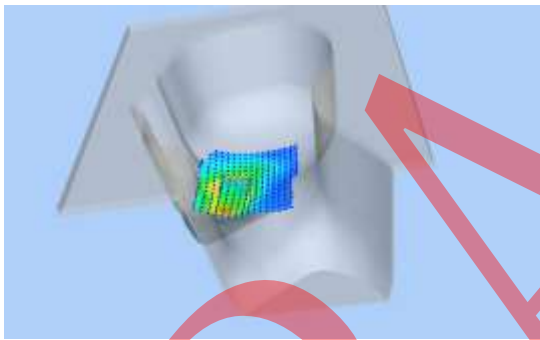
SAR Peak: 0.52 W/kg

SAR 10g (W/Kg)	0.183262
SAR 1g (W/Kg)	0.320702

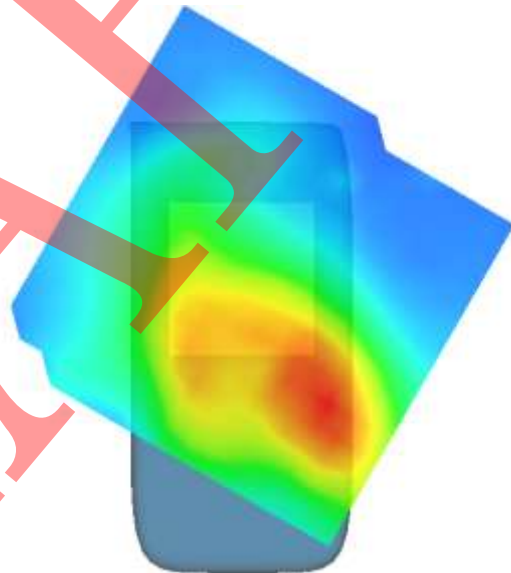
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5132	0.3367	0.1961	0.1328	0.0801	0.0539	0.0360



3D screen shot



Hot spot position



Test Laboratory: AGC Lab
DCS 1800 Mid-Tilt- Right <SIM1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

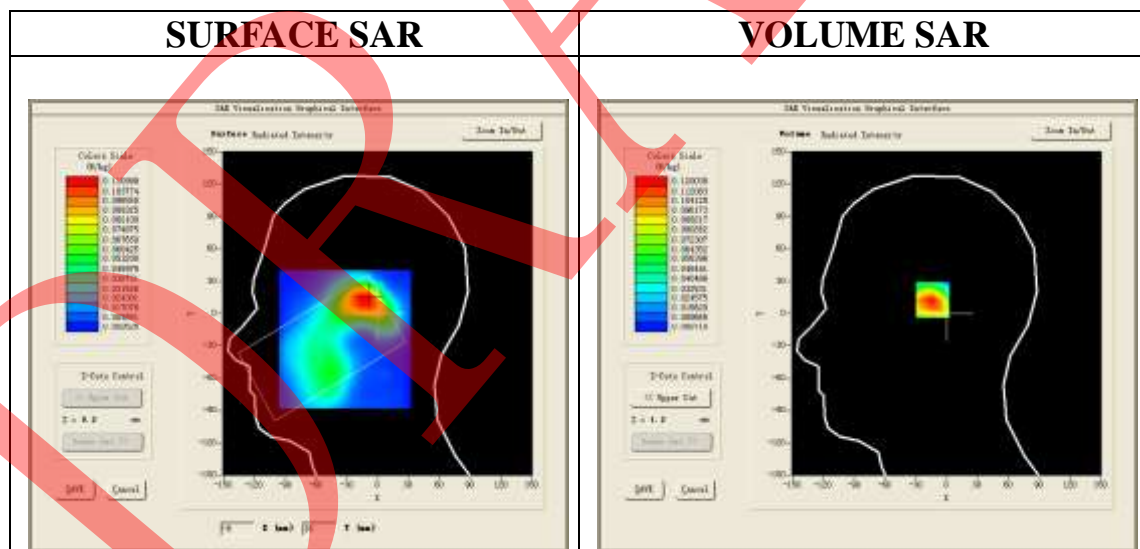
Communication System: Generic GSM; Communication System Band: DCS 1800; Duty Cycle: 1:8; Conv.F=4.98
Frequency: 1747.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/DCS1800 Mid- Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/DCS1800 Mid- Tilt-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Tilt
Band	DCS 1800
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

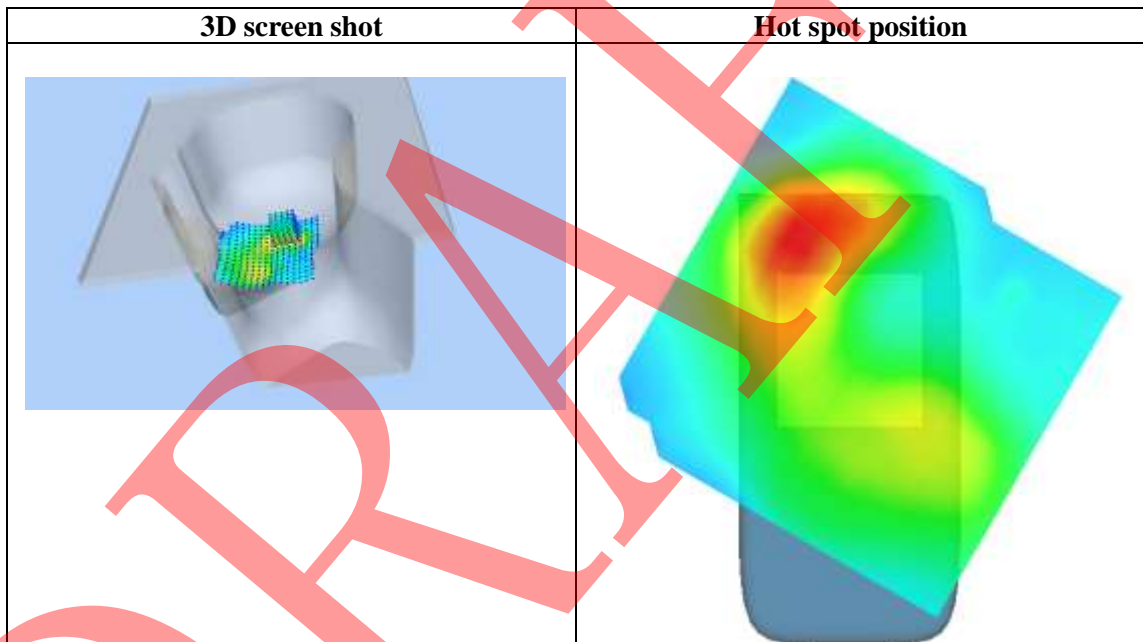
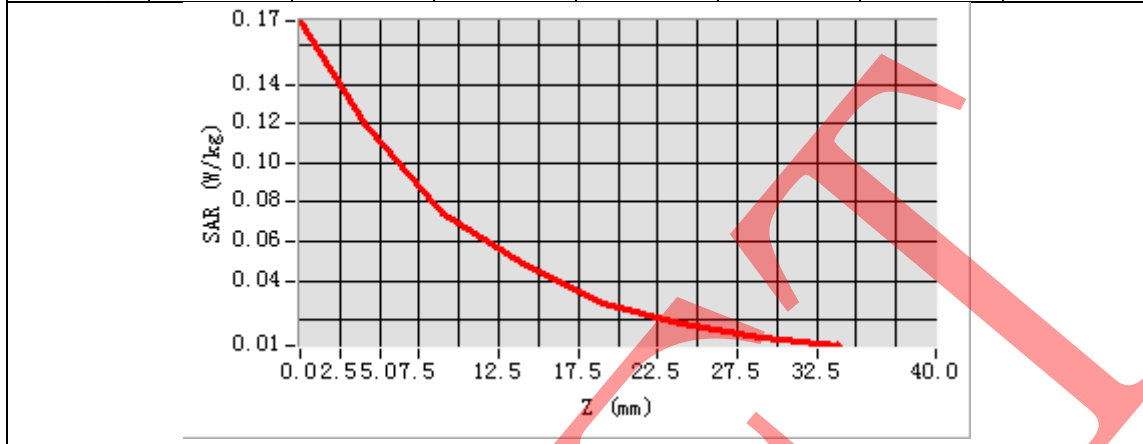


Maximum location: X=-11.00, Y=14.00

SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.065561
SAR 1g (W/Kg)	0.113637

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1724	0.1200	0.0741	0.0486	0.0279	0.0181	0.0111



Test Laboratory: AGC Lab
DCS 1800 Mid-Body-Worn- Back (MS) <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

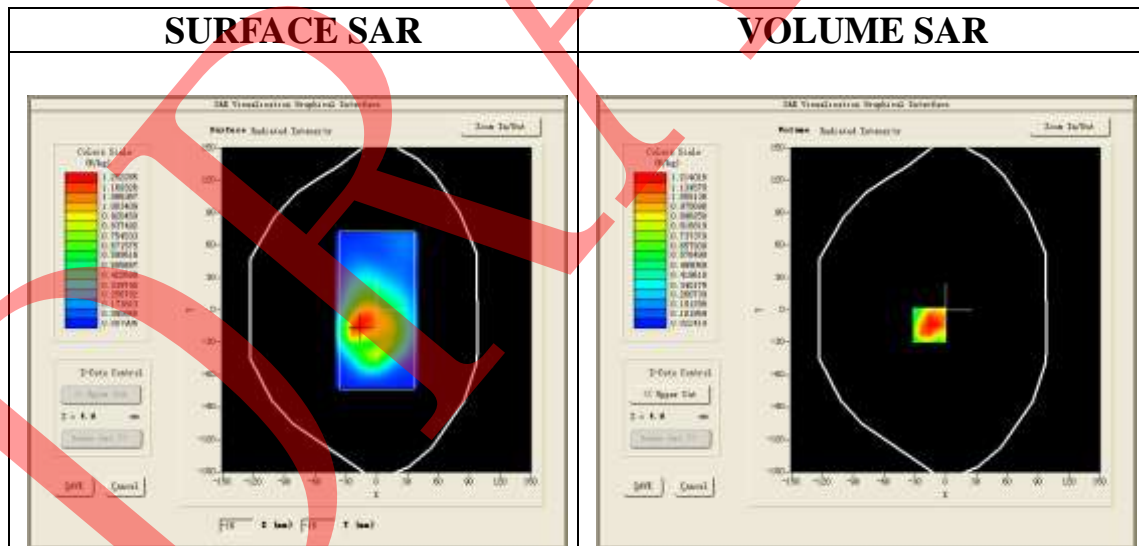
Communication System: Generic GSM; Communication System Band: DCS 1800; Duty Cycle: 1:8; Conv.F=4.98
Frequency: 1747.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/DCS1800 Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/DCS1800 Mid- Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	DCS 1800
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

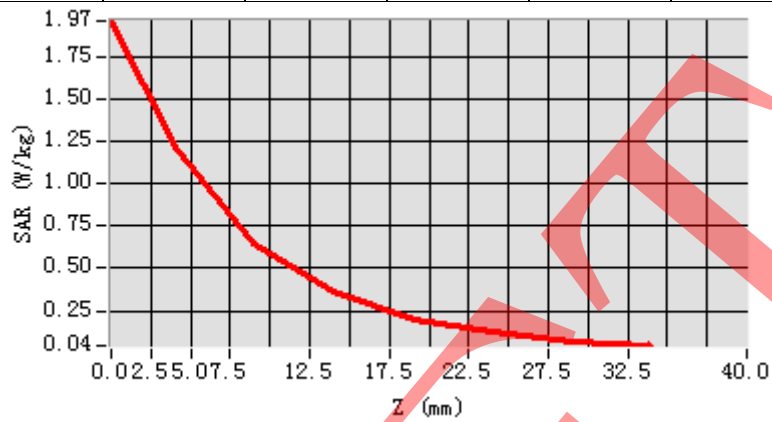


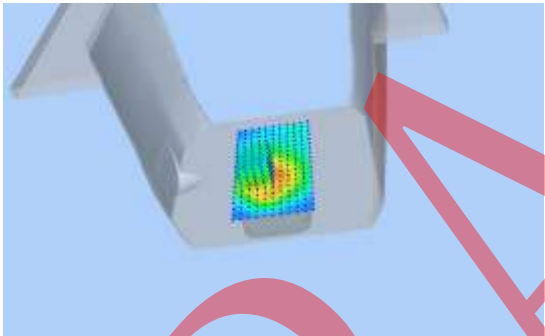
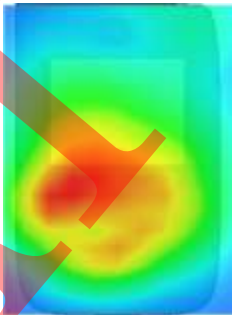
Maximum location: X=-16.00, Y=-14.00

SAR Peak: 2.01 W/kg

SAR 10g (W/Kg)	0.644044
SAR 1g (W/Kg)	1.175478

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.9654	1.2140	0.6483	0.3629	0.1967	0.1274	0.0617



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab
GPRS 1800 Mid-Body- Worn- Back (2up) <SIM 1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

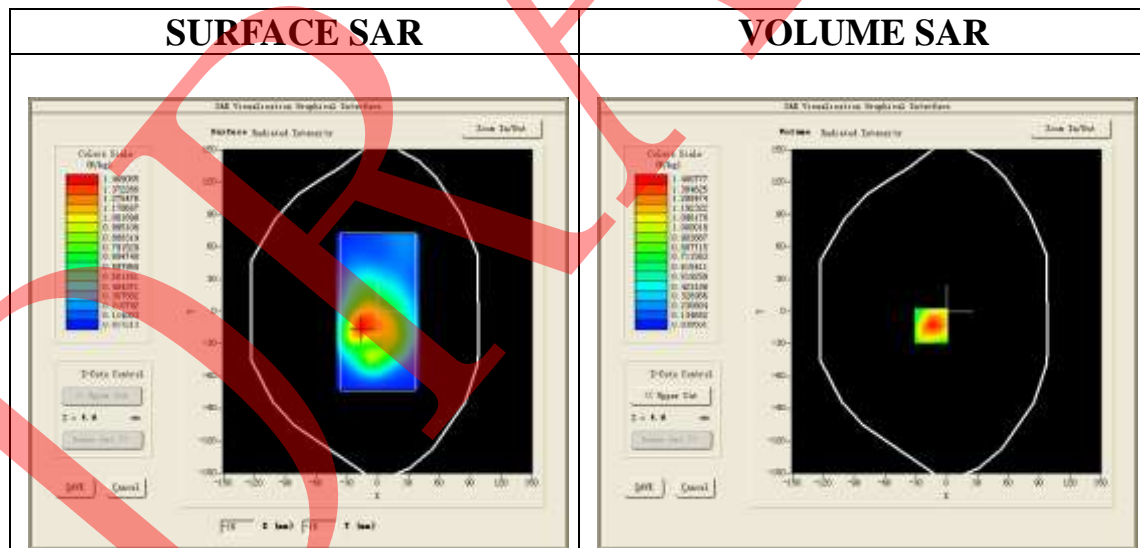
Communication System: GPRS-2 Slot; Communication System Band: DCS1800; Duty Cycle: 1:4.2; Conv.F=4.98
Frequency: 1747.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 1800 Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 1800 Mid- Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

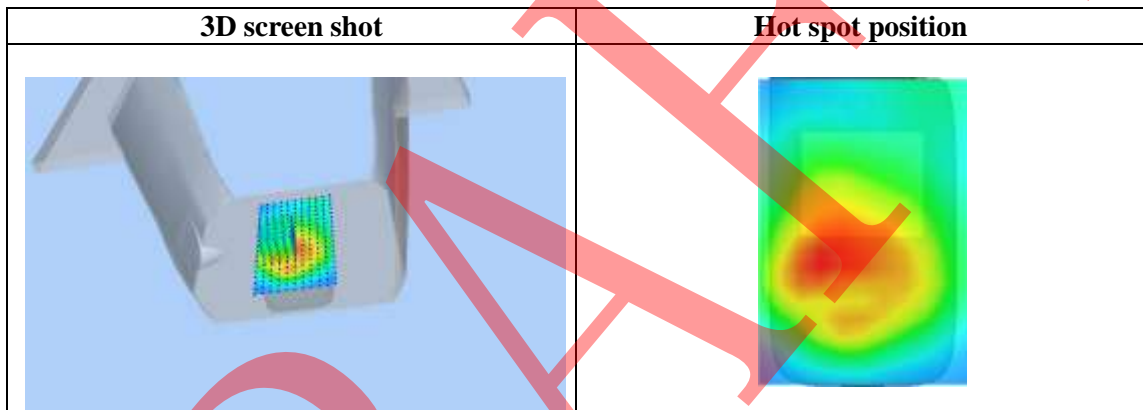
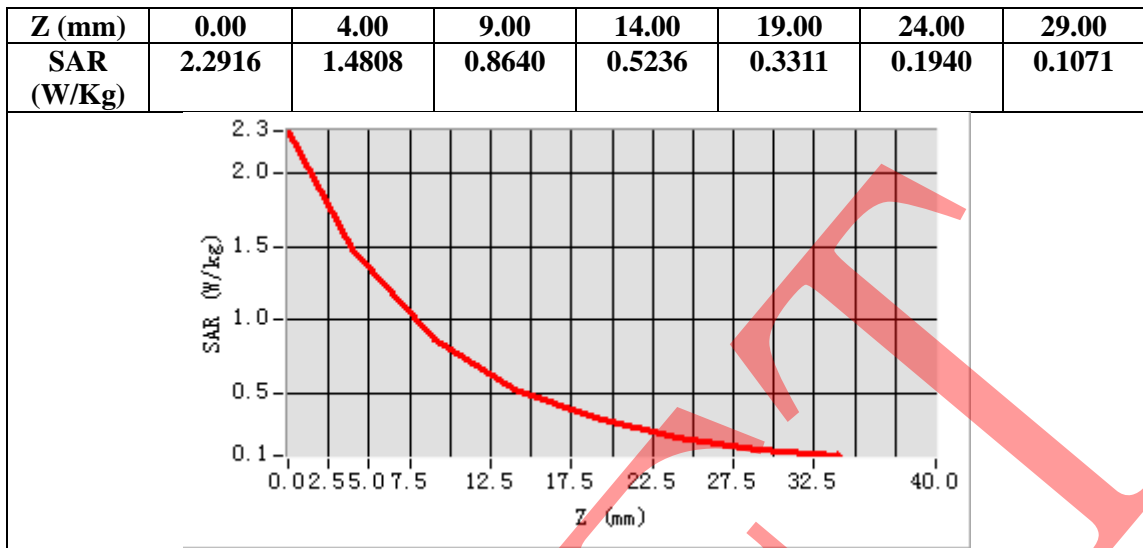
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	DCS 1800
Channels	Middle
Signal	TDMA (Crest factor: 4.0)



Maximum location: X=-15.00, Y=-13.00

SAR Peak: 2.27 W/kg

SAR 10g (W/Kg)	0.826609
SAR 1g (W/Kg)	1.410261



Test Laboratory: AGC Lab
GPRS 1800 Mid-Body- Worn- Back (3up) <SIM1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

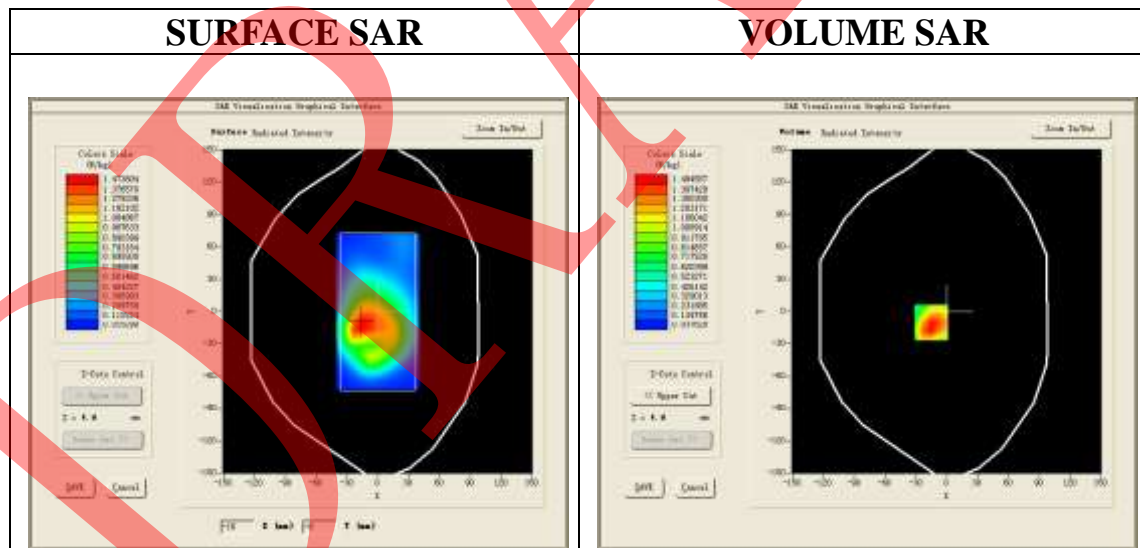
Communication System: GPRS-3 Slot; Communication System Band: DCS1800; Duty Cycle: 1:2.7; Conv.F=4.98
Frequency: 1747.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

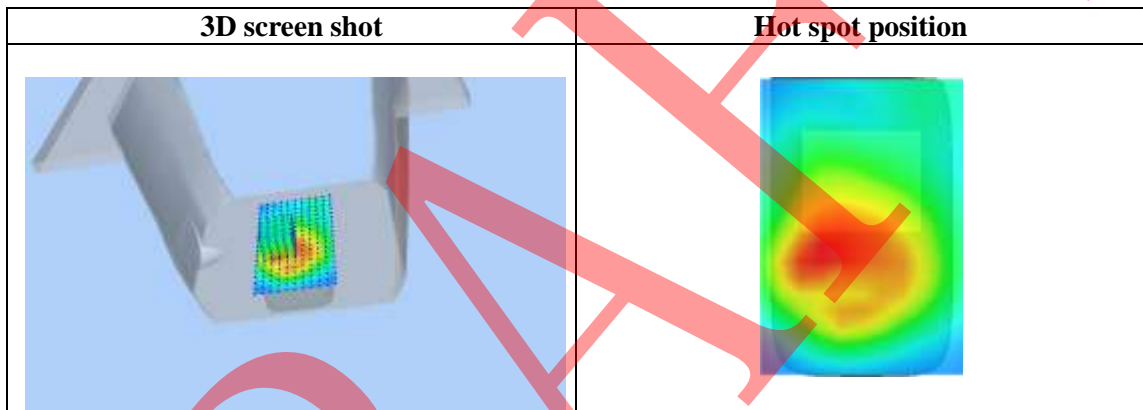
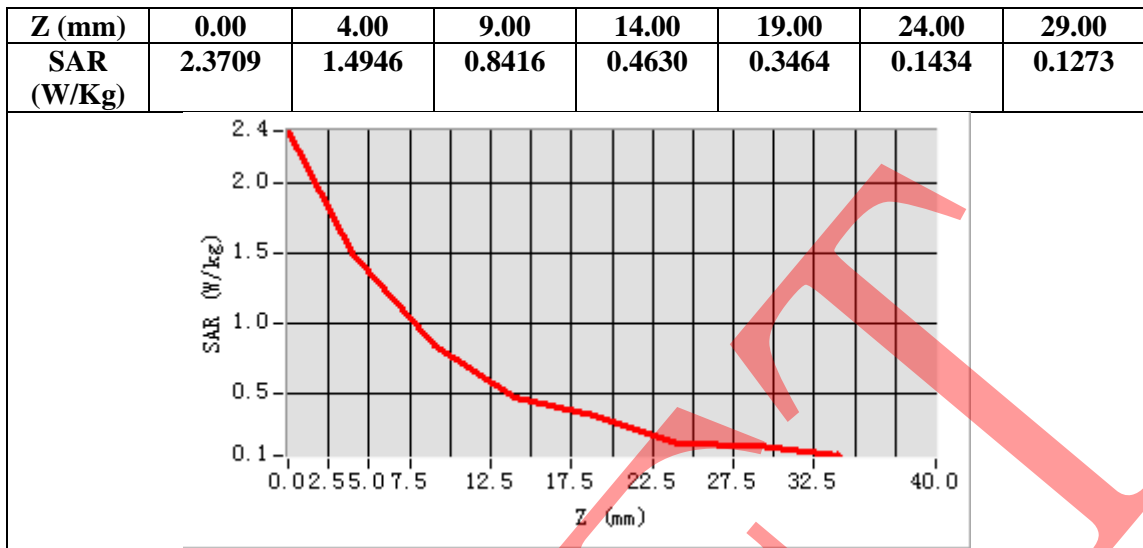
Configuration/GPRS 1800 Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 1800 Mid- Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	DCS 1800
Channels	Middle
Signal	TDMA (Crest factor: 2.7)



Maximum location: X=-15.00, Y=-10.00
SAR Peak: 2.39 W/kg

SAR 10g (W/Kg)	0.841103
SAR 1g (W/Kg)	1.459172



Test Laboratory: AGC Lab
GPRS 1800 Low-Body- Worn- Back (4up) <SIM1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

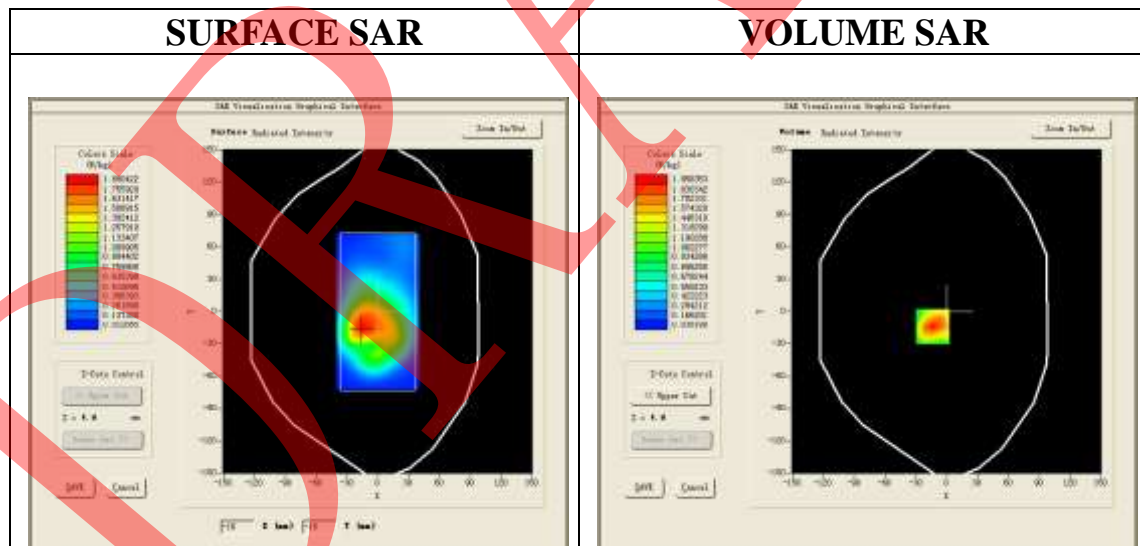
Communication System: GPRS-4 Slot; Communication System Band: DCS1800; Duty Cycle: 1:2.1; Conv.F=4.98
Frequency: 1710.2MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 1800 Low - Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 1800 Low - Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

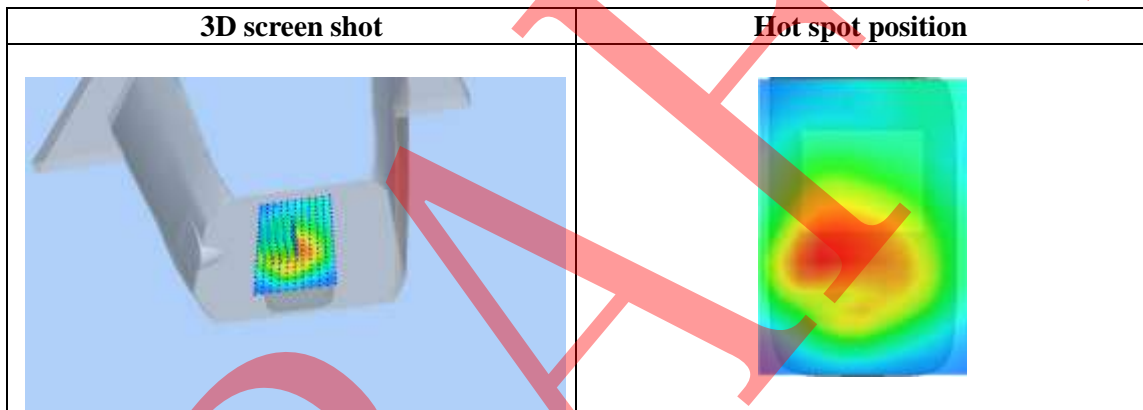
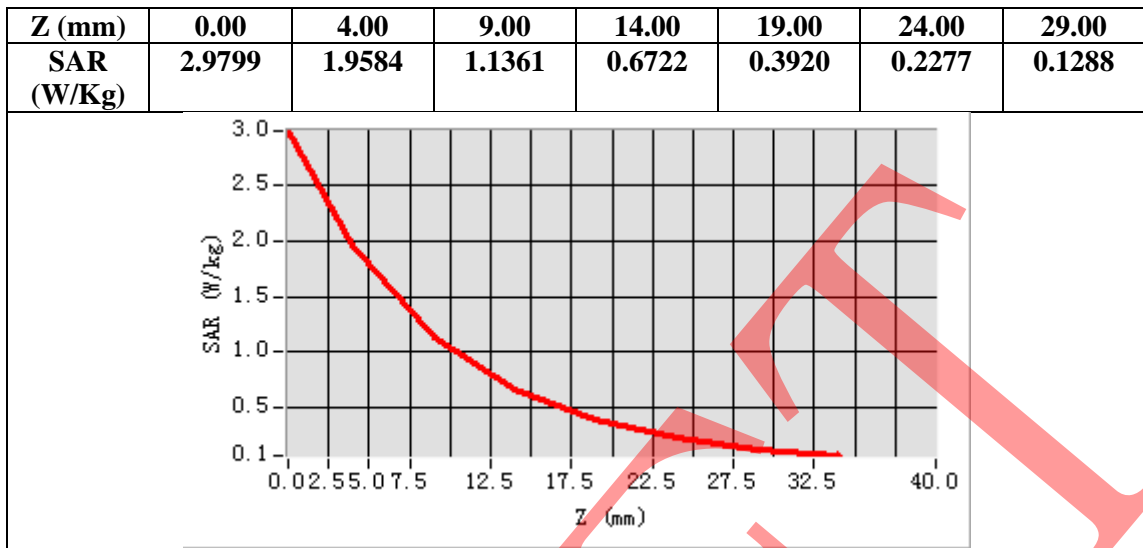
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	DCS 1800
Channels	Low
Signal	TDMA (Crest factor: 2.0)



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

SAR Peak: 2.97 W/kg

SAR 10g (W/Kg)	1.058949
SAR 1g (W/Kg)	1.836765



Test Laboratory: AGC Lab
GPRS 1800 Mid-Body- Worn- Back (4up) <SIM1>
DUT: 3G Dual-SIM Smartphone; **Type:** Volt S

Date: Dec. 19,2016

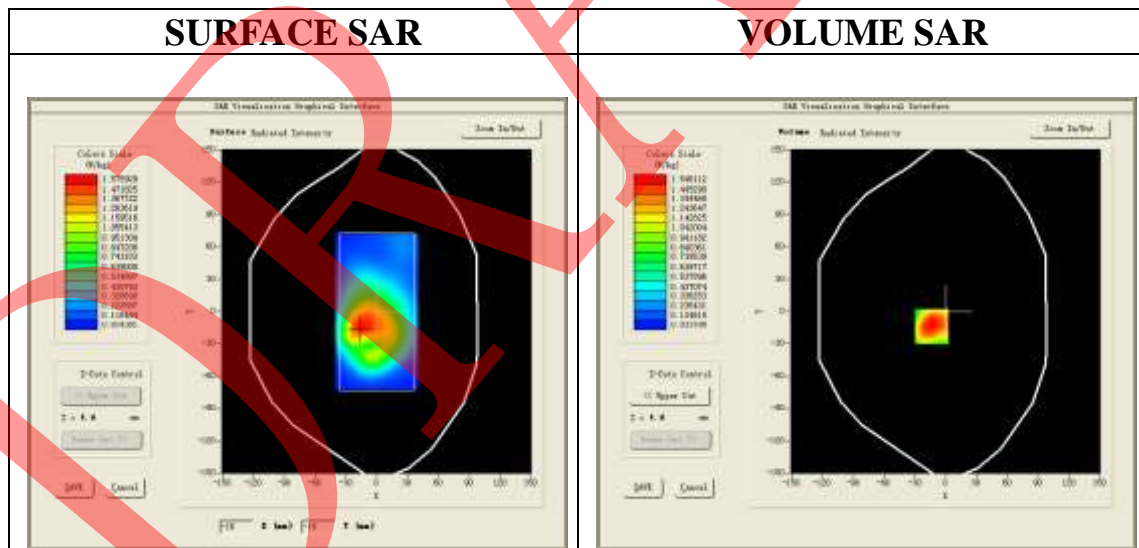
Communication System: GPRS-4 Slot; Communication System Band: DCS1800; Duty Cycle: 1:2.1; Conv.F=4.98
Frequency: 1747.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 1800 Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 1800 Mid- Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

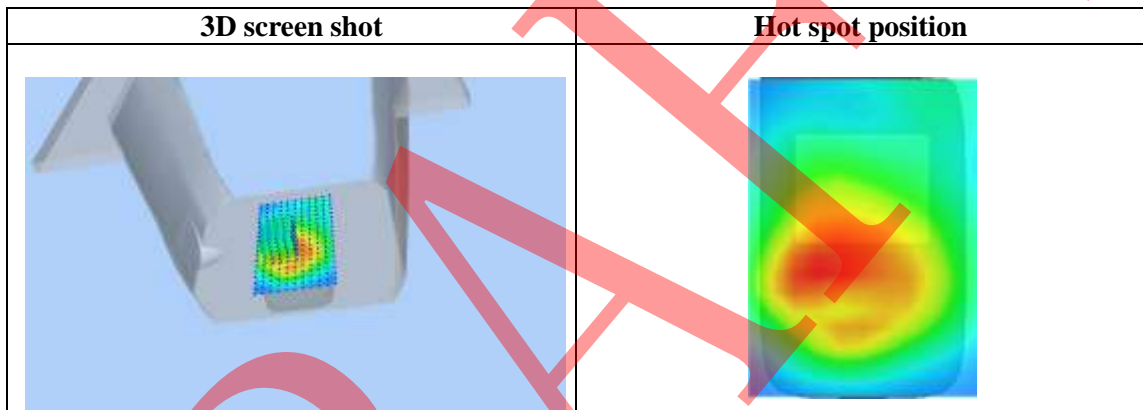
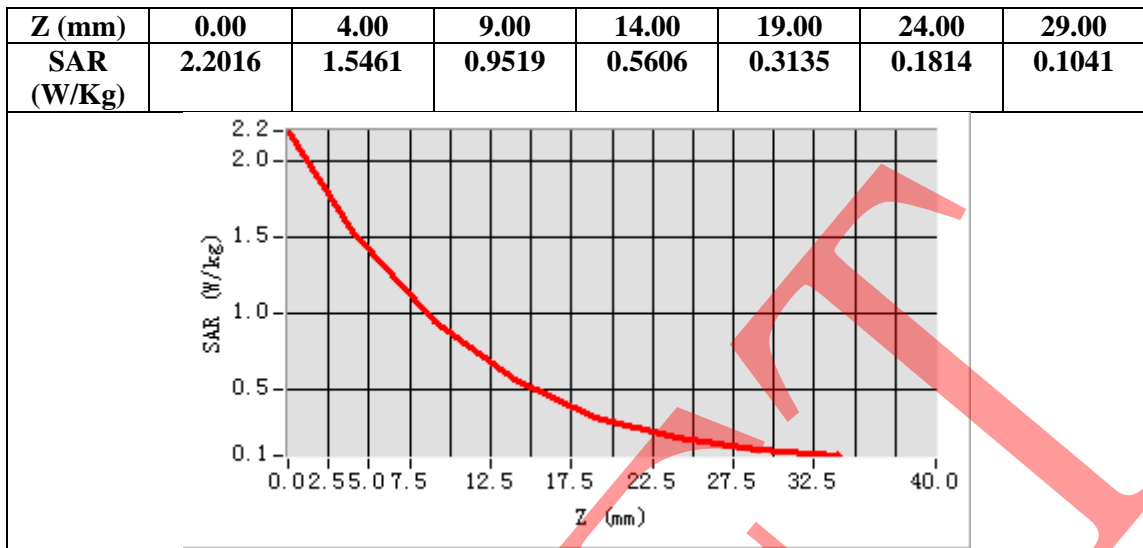
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	DCS 1800
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



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

SAR Peak: 2.40 W/kg

SAR 10g (W/Kg)	0.870788
SAR 1g (W/Kg)	1.504962



Test Laboratory: AGC Lab
GPRS 1800 High-Body- Worn- Back (4up) <SIM1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

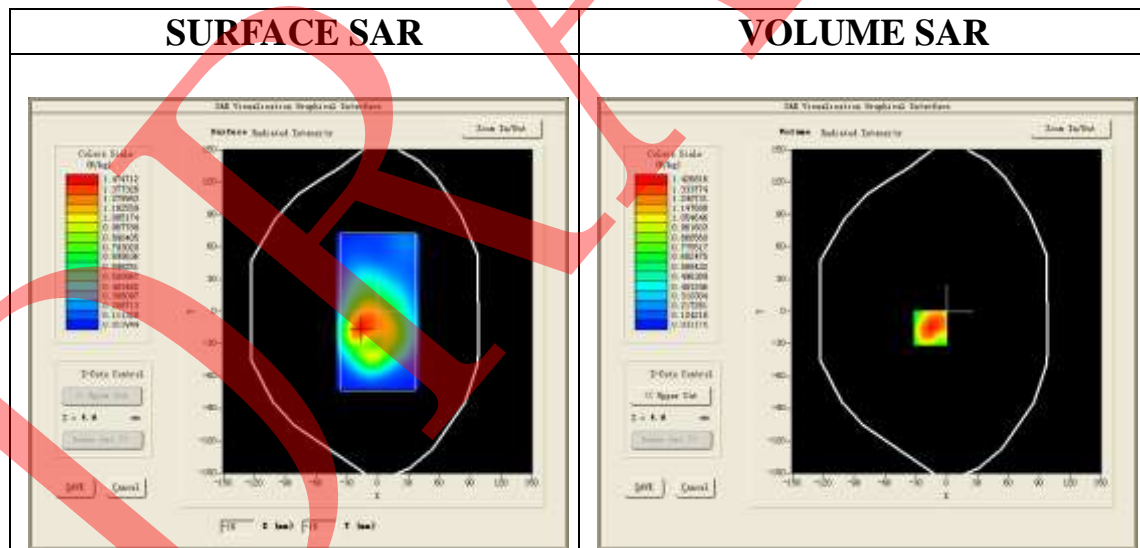
Communication System: GPRS-4 Slot; Communication System Band: DCS1800; Duty Cycle: 1:2.1; Conv.F=4.98
Frequency: 1784.8 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 1800 High - Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 1800 High - Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	DCS 1800
Channels	High
Signal	TDMA (Crest factor: 2.0)

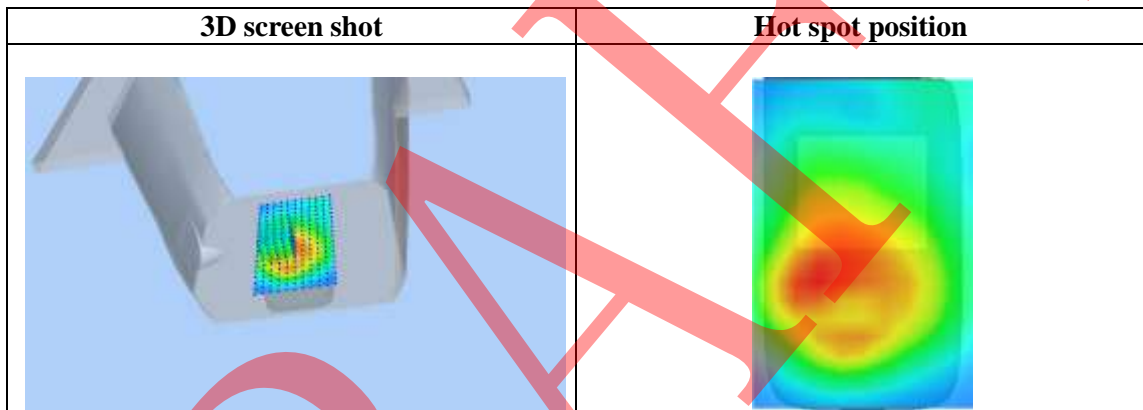
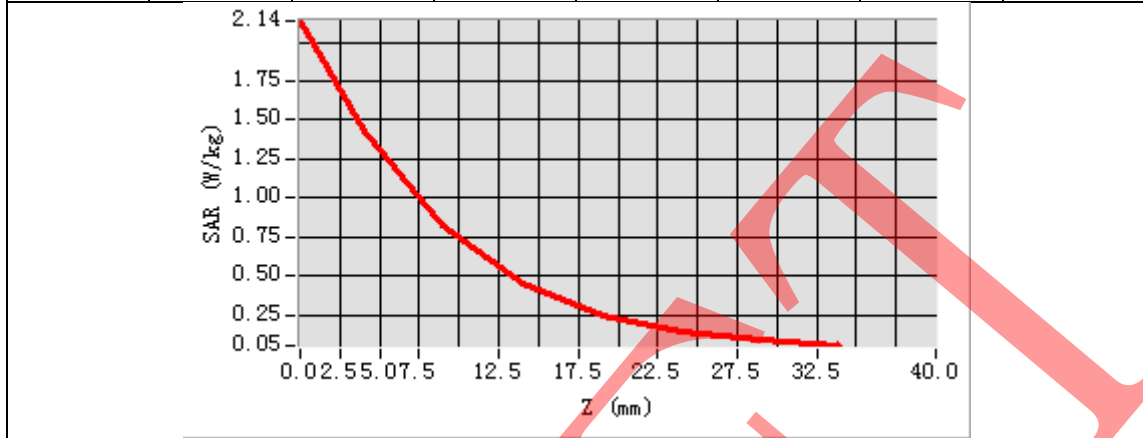


Maximum location: X=-16.00, Y=-15.00

SAR Peak: 2.29 W/kg

SAR 10g (W/Kg)	0.772661
SAR 1g (W/Kg)	1.368867

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.1364	1.4268	0.8277	0.4506	0.2490	0.1453	0.0848



Test Laboratory: AGC Lab
GPRS 1800 Mid-Body- Worn- Front (4up) <SIM1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

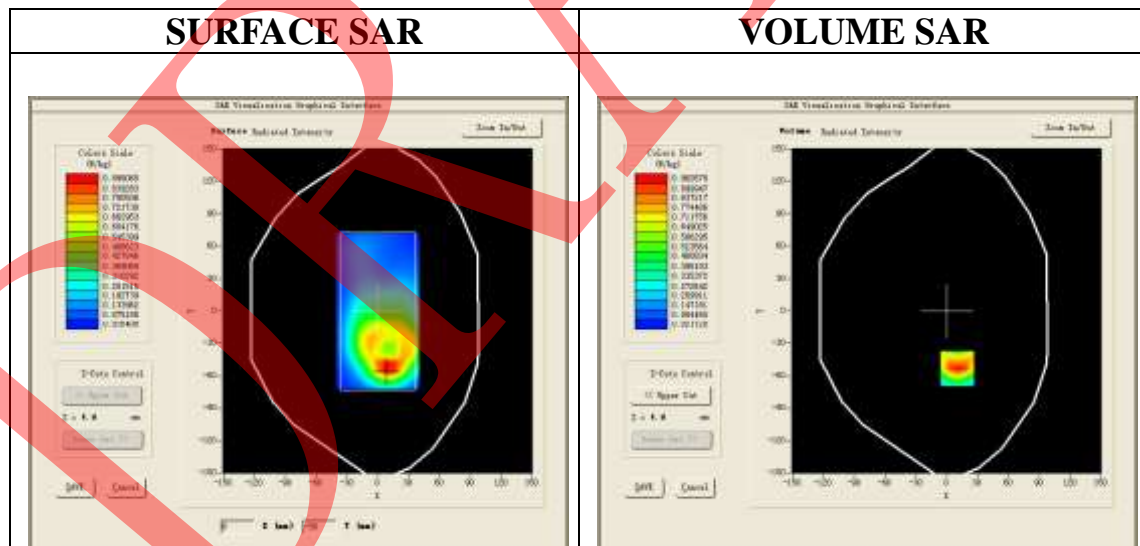
Communication System: GPRS-4 Slot; Communication System Band: DCS1800; Duty Cycle: 1:2.1; Conv.F=4.98
Frequency: 1747.4 MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

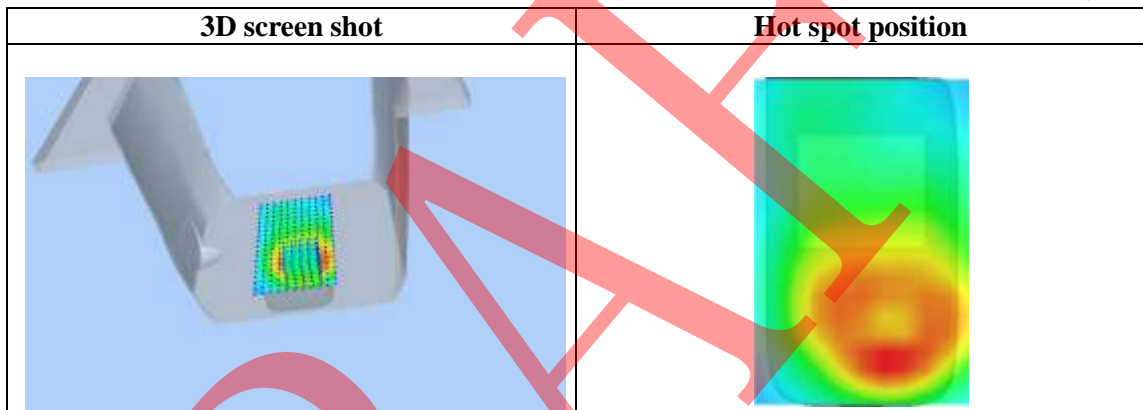
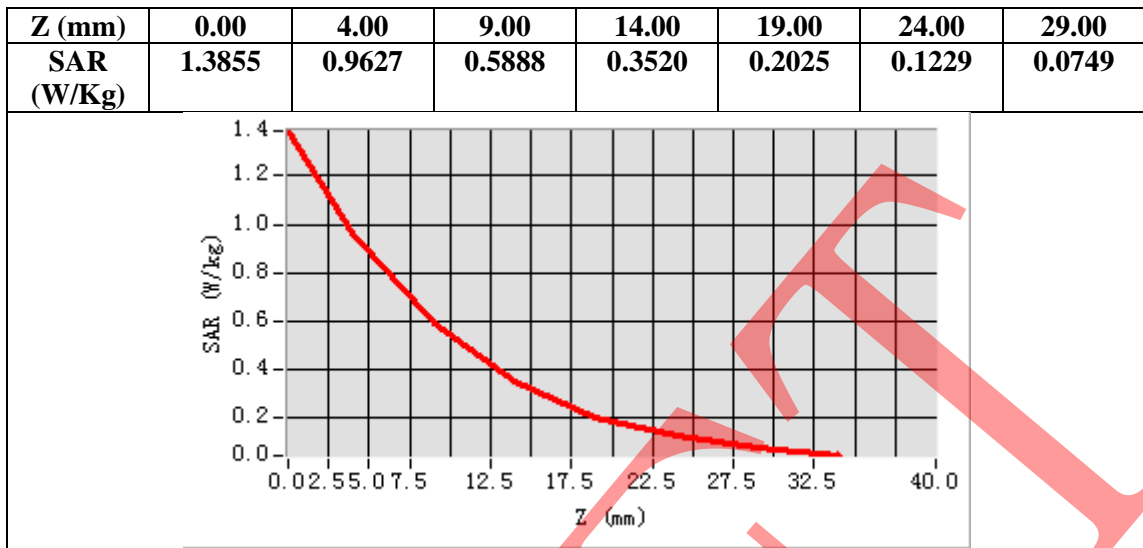
Configuration/GPRS 1800 Mid- Body- Front /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 1800 Mid- Body- Front /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Front
Band	DCS 1800
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



Maximum location: X=10.00, Y=-53.00
SAR Peak: 1.52 W/kg

SAR 10g (W/Kg)	0.495844
SAR 1g (W/Kg)	0.905650



Test Laboratory: AGC Lab
GPRS 1800 Low-Body- Worn- Back (4up) –with earphone <SIM1>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

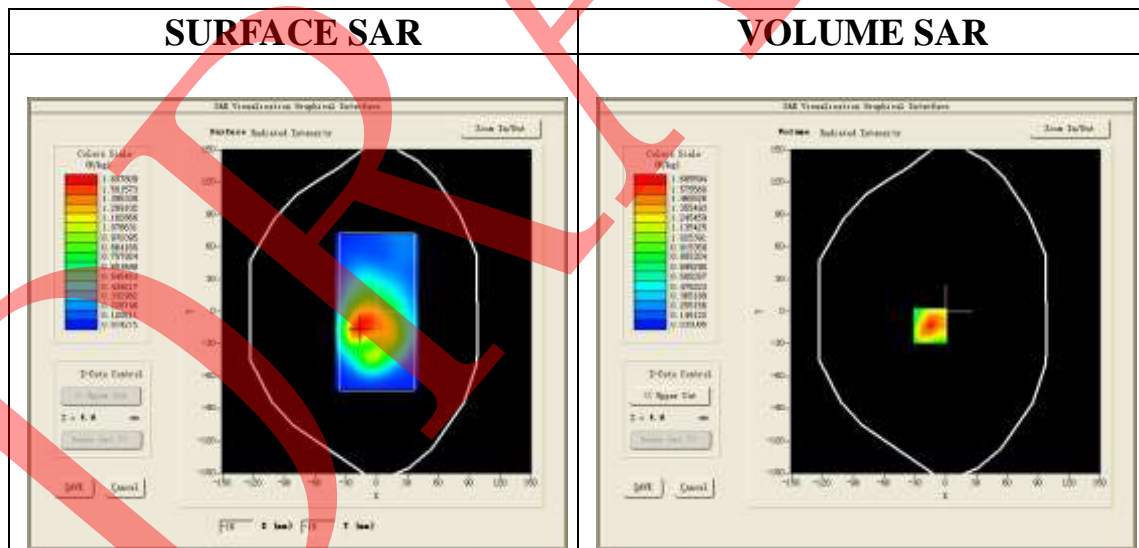
Communication System: GPRS-4 Slot; Communication System Band: DCS1800; Duty Cycle: 1:2.1; Conv.F=4.98
Frequency: 1710.2MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 1800 Low - Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 1800 Low - Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

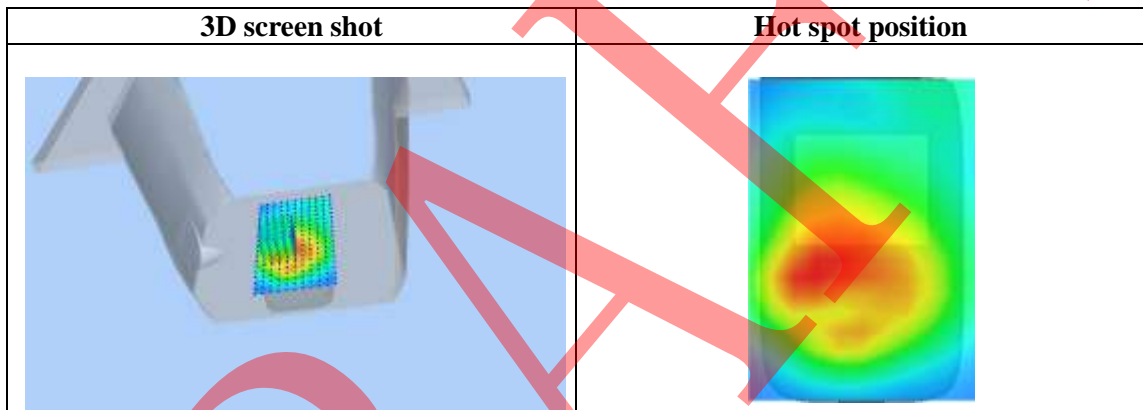
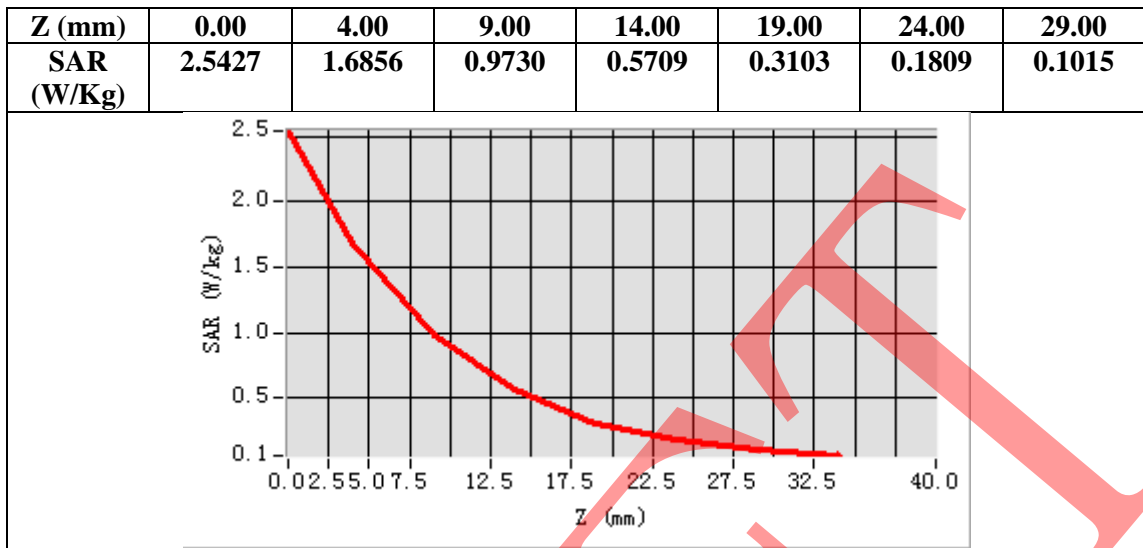
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	DCS 1800
Channels	Low
Signal	TDMA (Crest factor: 2.0)



Maximum location: X=-15.00, Y=-13.00

SAR Peak: 2.59 W/kg

SAR 10g (W/Kg)	0.900117
SAR 1g (W/Kg)	1.586949



Test Laboratory: AGC Lab
GPRS 1800 Low-Body- Worn- Back (4up) <SIM2>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 19,2016

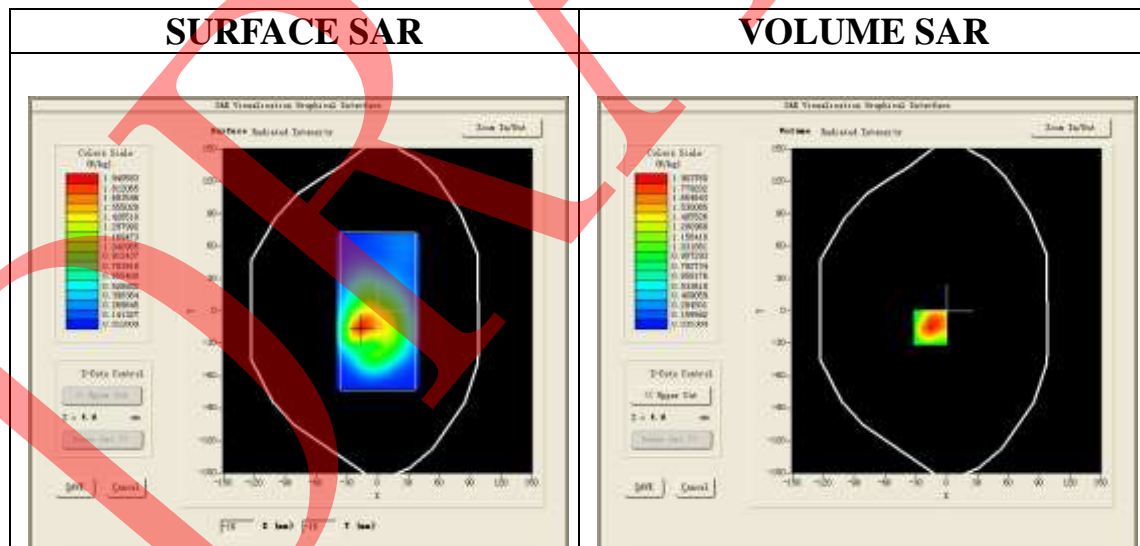
Communication System: GPRS-4 Slot; Communication System Band: DCS1800; Duty Cycle: 1:2.1; Conv.F=4.98
Frequency: 1710.2MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.8

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

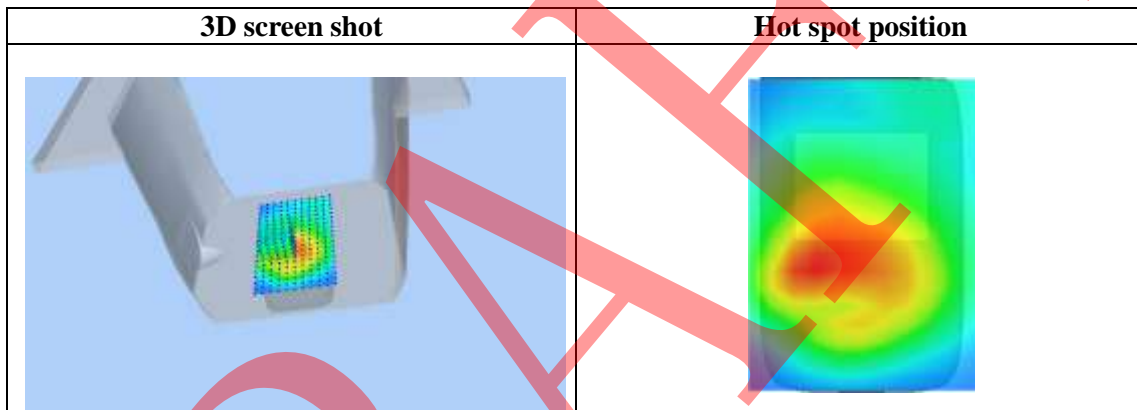
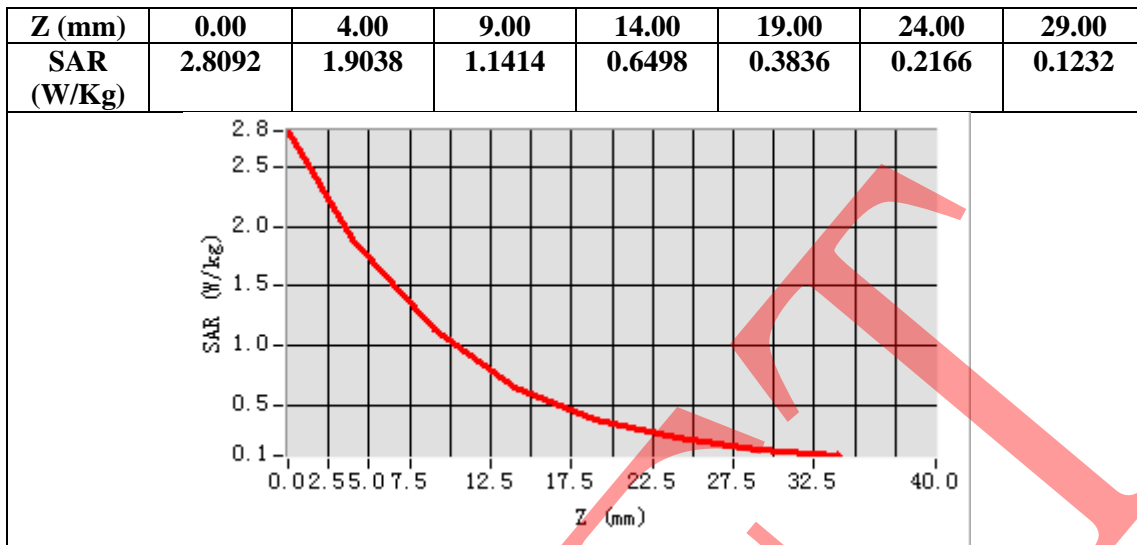
Configuration/GPRS 1800 Low - Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 1800 Low - Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	DCS 1800
Channels	Low
Signal	TDMA (Crest factor: 2.0)



Maximum location: X=-16.00, Y=-15.00
SAR Peak: 2.80 W/kg

SAR 10g (W/Kg)	1.052659
SAR 1g (W/Kg)	1.810444



Test Laboratory: AGC Lab
WCDMA Band I Mid-Touch-Left (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 20,2016

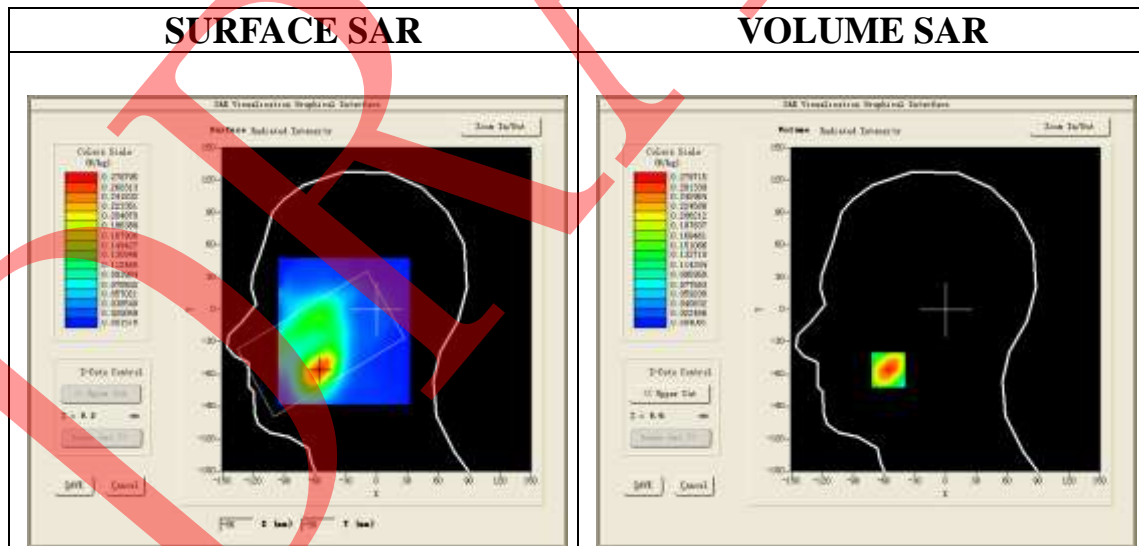
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ; Duty Cycle: 1:1; Conv.F=5.25;
Frequency: 1950MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band I Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band I Mid-Touch-Left/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

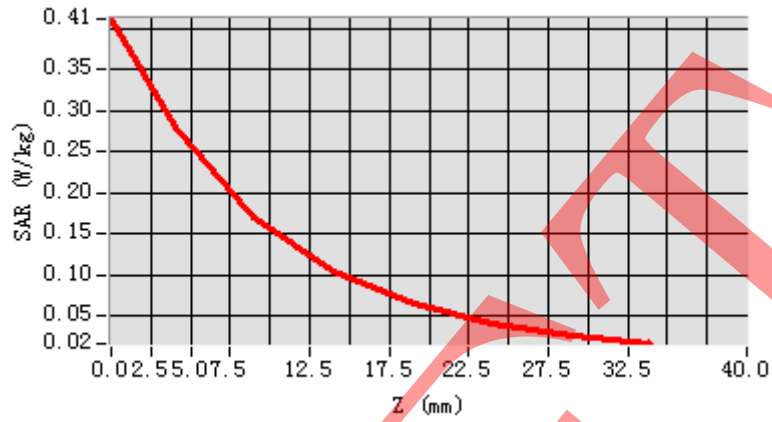
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA Band I
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



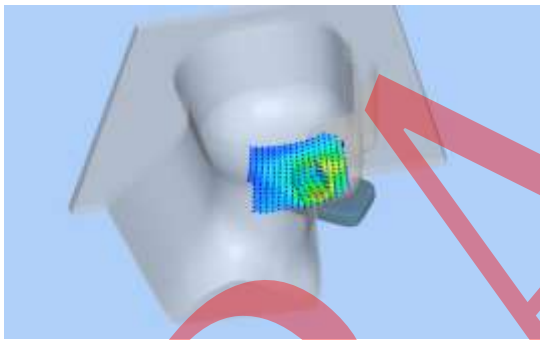
Maximum location: X=-56.00, Y=-56.00
SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.146580
SAR 1g (W/Kg)	0.263075

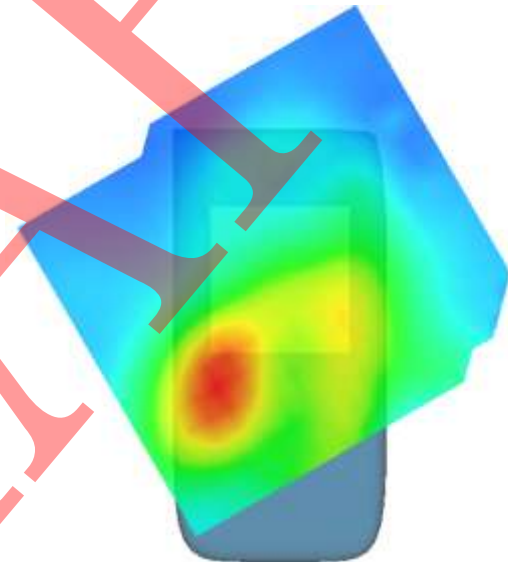
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4119	0.2797	0.1702	0.1049	0.0646	0.0402	0.0248



3D screen shot



Hot spot position



Test Laboratory: AGC Lab
WCDMA Band I Mid-Tilt-Left (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 20,2016

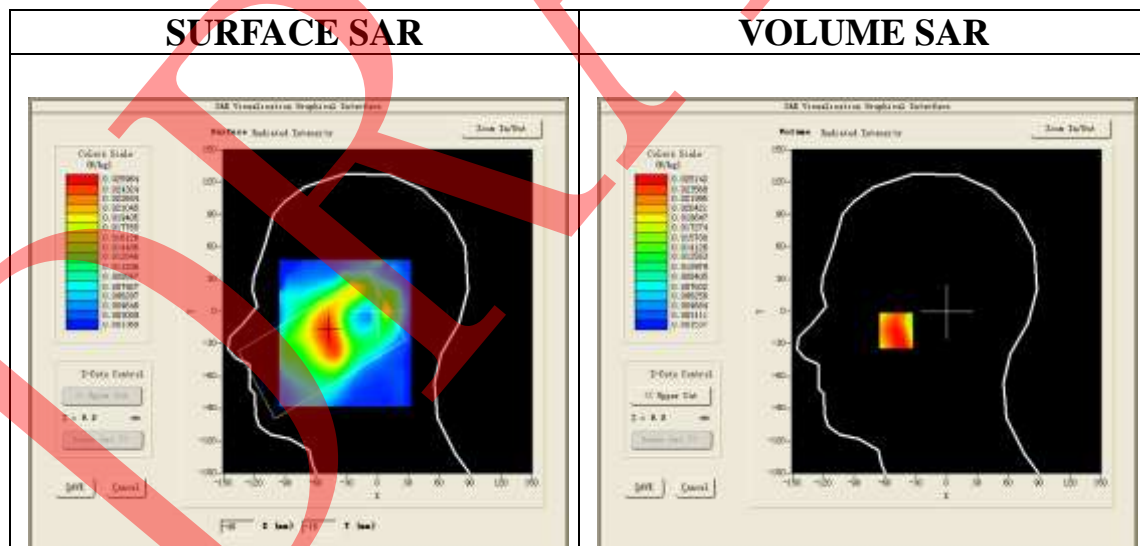
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.25;
Frequency: 1950MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band I Mid-Tilt-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band I Mid-Tilt-Left/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

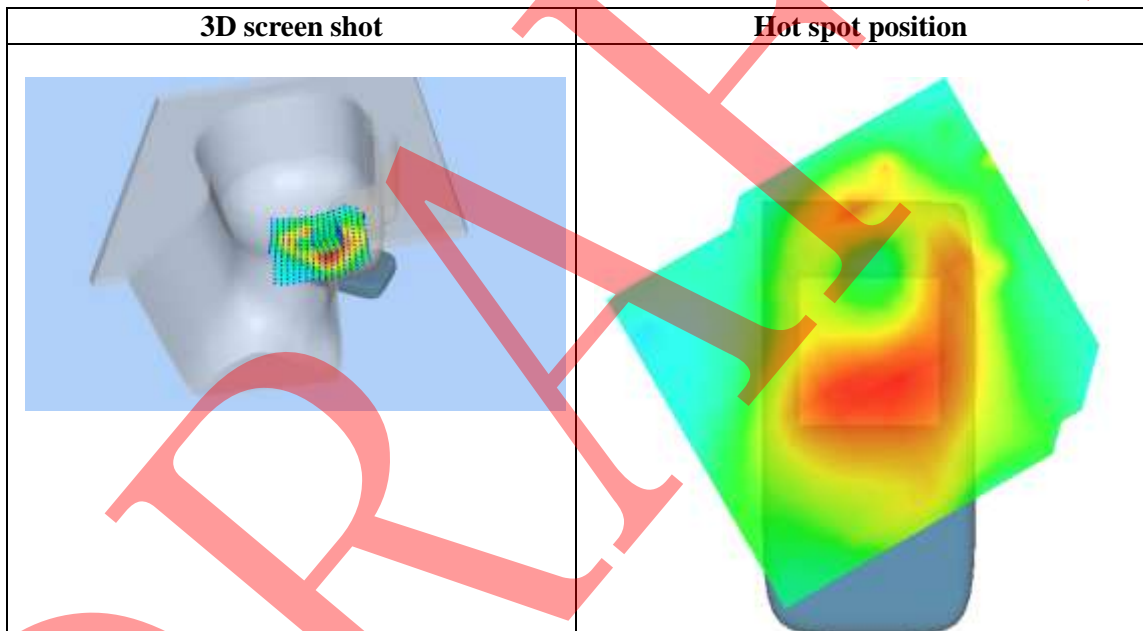
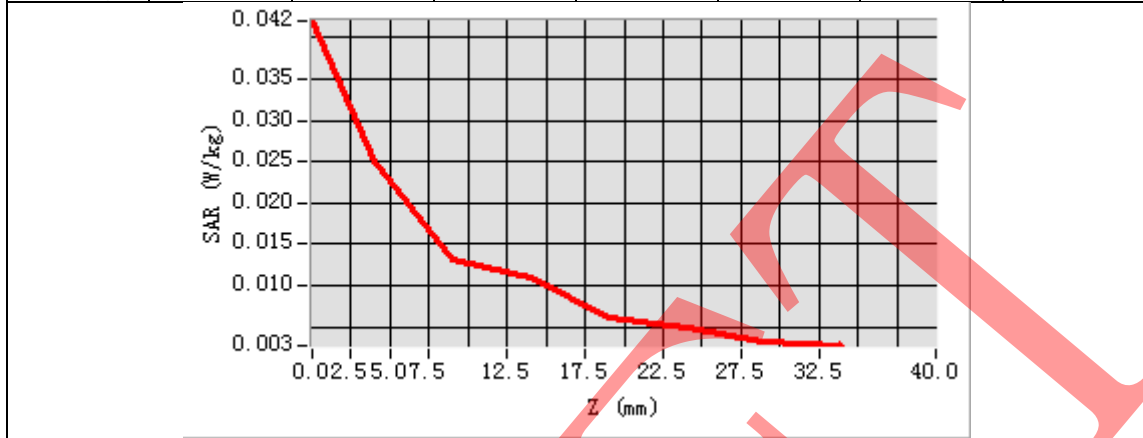
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	WCDMA Band I
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-49.00, Y=-17.00
SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.015586
SAR 1g (W/Kg)	0.024554

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0420	0.0251	0.0132	0.0109	0.0061	0.0050	0.0031



Test Laboratory: AGC Lab
WCDMA Band I Mid-Touch-Right (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 20,2016

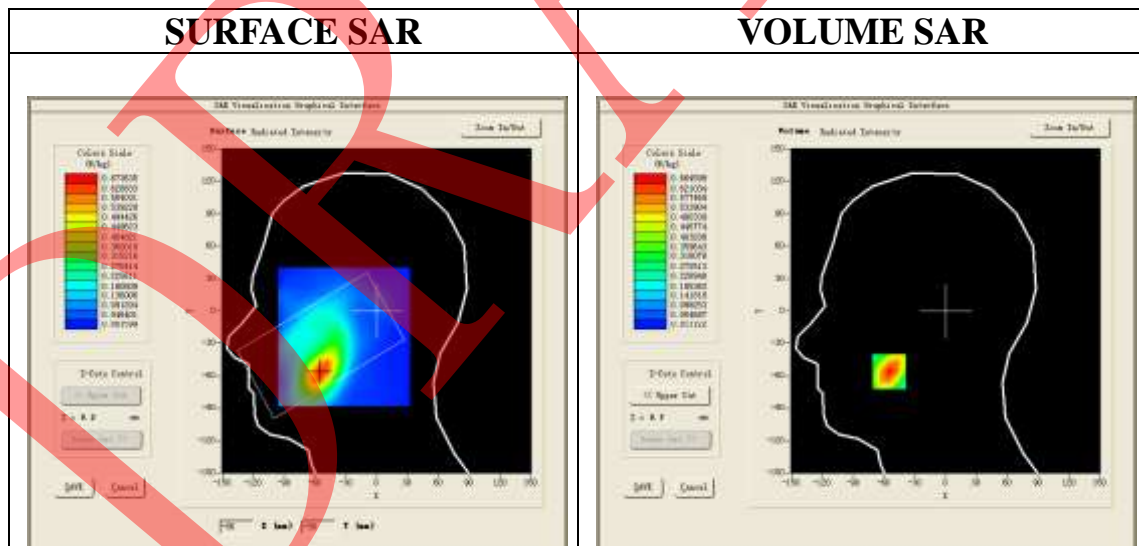
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.25;
Frequency: 1950MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band I Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band I Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

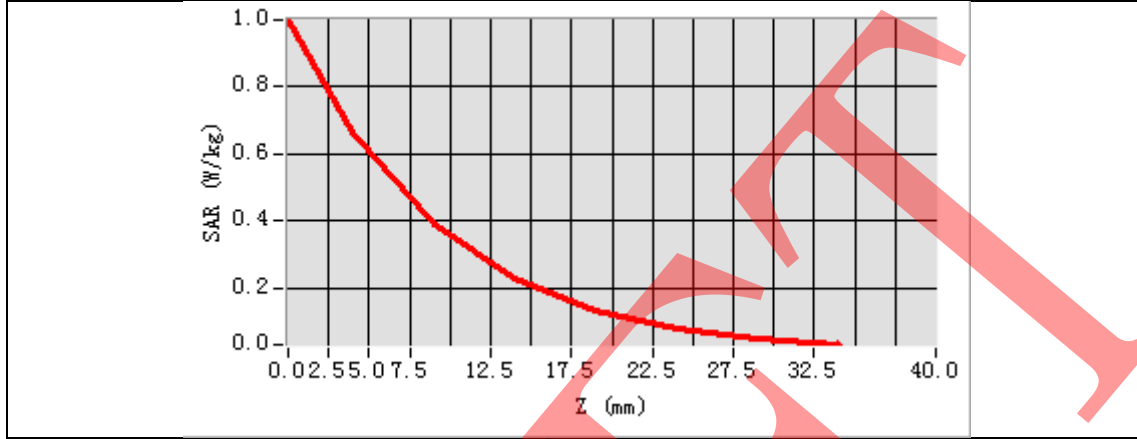
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band I
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-55.00, Y=-56.00
SAR Peak: 1.00 W/kg

SAR 10g (W/Kg)	0.345246
SAR 1g (W/Kg)	0.626538

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0002	0.6646	0.3885	0.2291	0.1338	0.0801	0.0495



3D screen shot	Hot spot position
<p>A 3D perspective view of a device, possibly a mobile phone, with a grid of small colored dots (blue, green, yellow, red) overlaid on its surface, representing the spatial distribution of SAR values.</p>	<p>A 3D visualization of the hot spot position. It shows a color gradient from blue (low SAR) to red (high SAR), with the highest SAR region (red) concentrated in the center of the device's back panel.</p>

Test Laboratory: AGC Lab
WCDMA Band I Mid-Tilt-Right <RMC>
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 20,2016

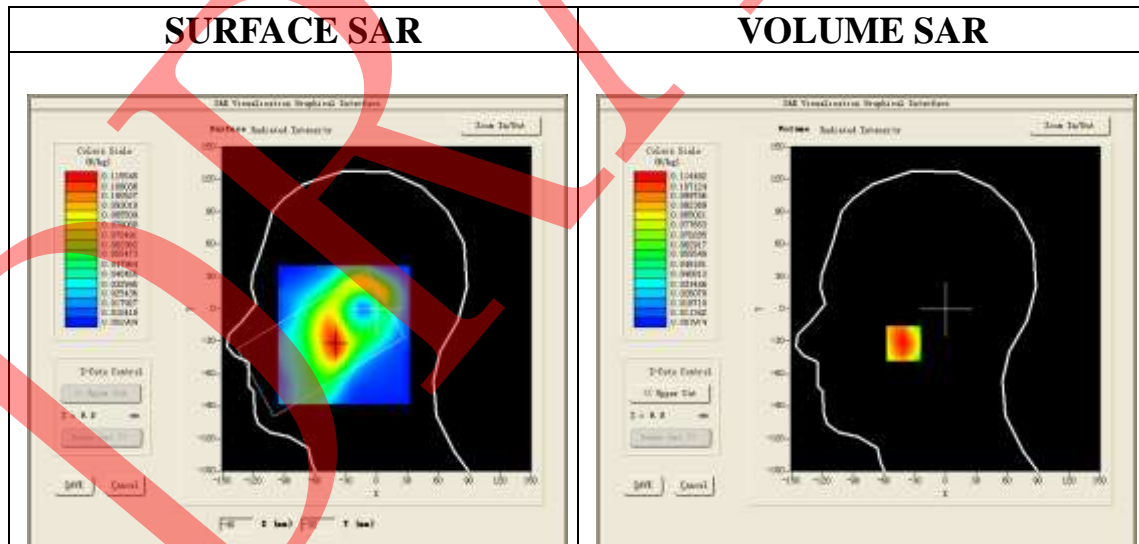
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.25;
Frequency: 1950MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/WCDMA Band I Mid-Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/WCDMA Band I Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

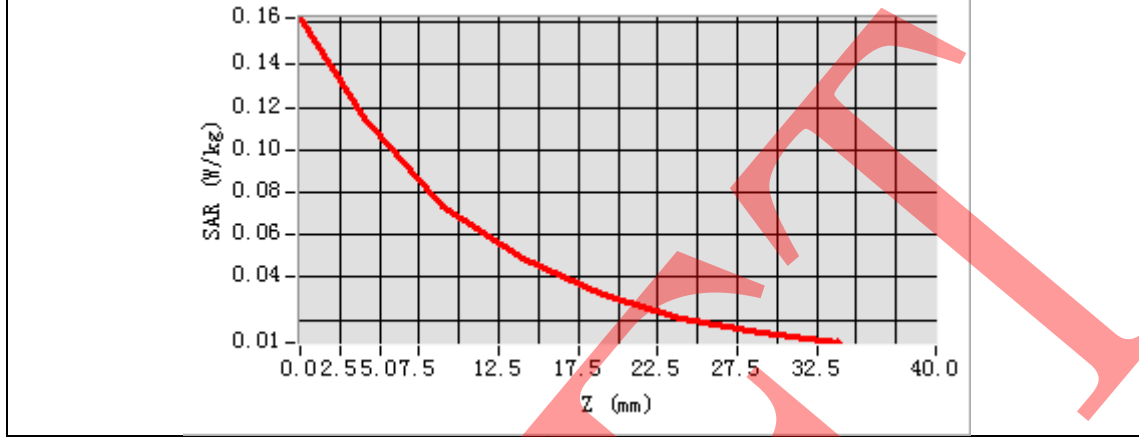
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Tilt
Band	WCDMA Band I
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-41.00, Y=-32.00
SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.067870
SAR 1g (W/Kg)	0.109710

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1620	0.1145	0.0737	0.0486	0.0319	0.0204	0.0137



3D screen shot	Hot spot position
<p>A 3D perspective view of a white, cup-like device. A grid of small, multi-colored squares (representing SAR values) is overlaid on the inner surface of the cup. The colors range from blue (low SAR) to red (high SAR), with the highest values concentrated in the center of the cup's base.</p>	<p>A 2D color map visualization of the hot spot position. The map shows a central region of high SAR (red) surrounded by concentric rings of decreasing SAR (yellow, green, cyan, blue). The shape of the hot spot corresponds to the inner surface of the cup shown in the 3D view.</p>

Test Laboratory: AGC Lab
WCDMA Band I Low-Body-Towards Grounds (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 20,2016

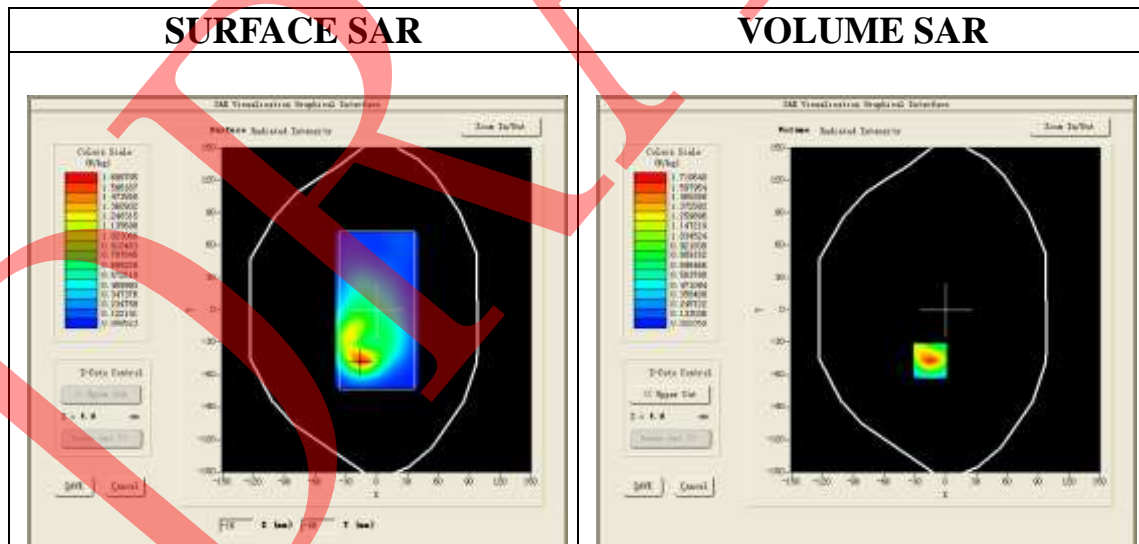
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.25;
Frequency: 1922.4MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

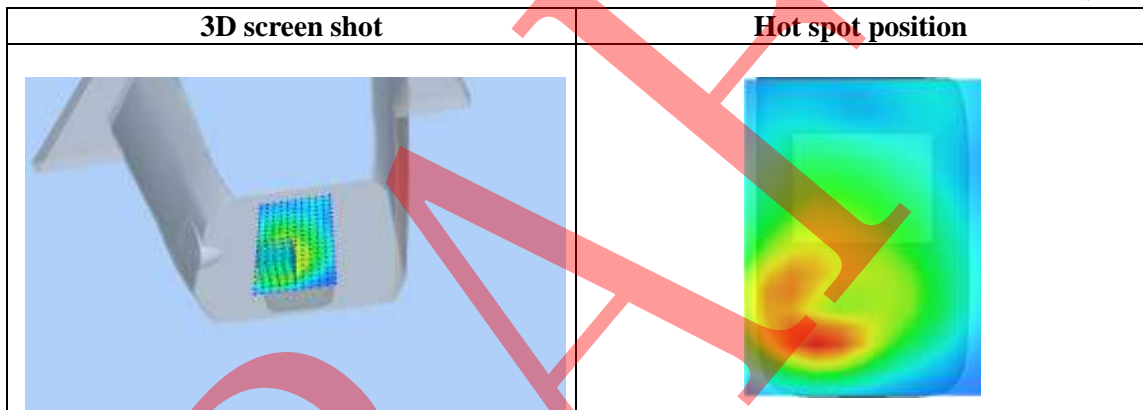
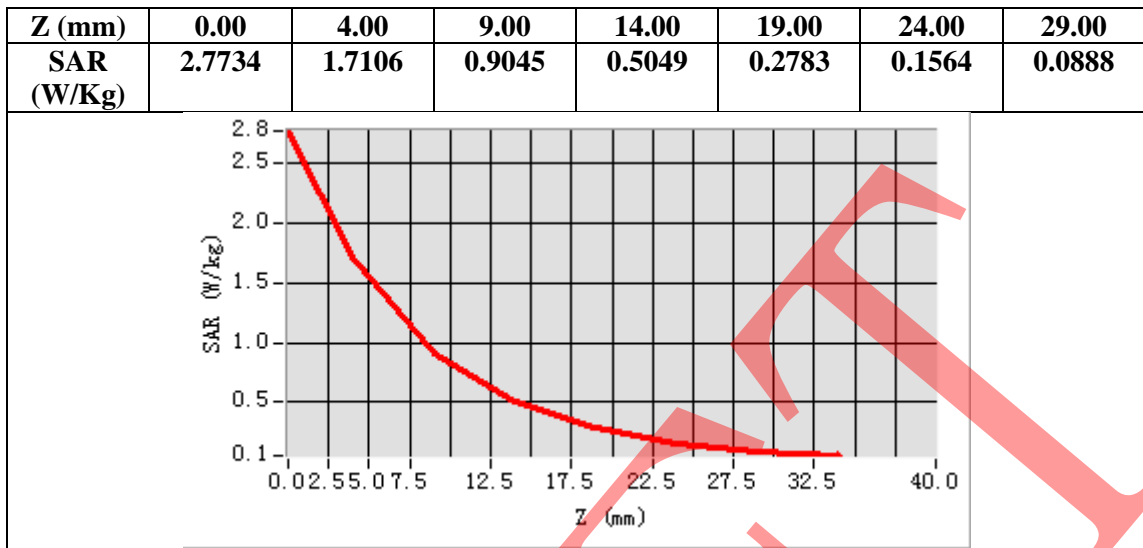
Configuration/WCDMA Band I Low -Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/WCDMA Band I Low -Body-Back//Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band I
Channels	Low
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-15.00, Y=-47.00
SAR Peak: 2.74 W/kg

SAR 10g (W/Kg)	0.775576
SAR 1g (W/Kg)	1.578412



Test Laboratory: AGC Lab
WCDMA Band I Mid-Body-Towards Grounds (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 20,2016

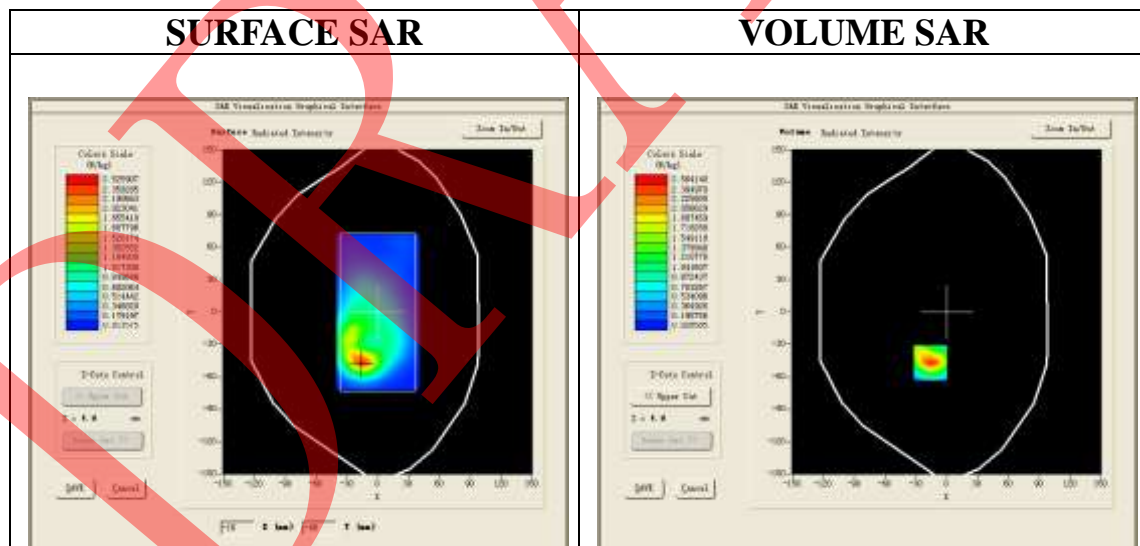
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.25;
Frequency: 1950MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

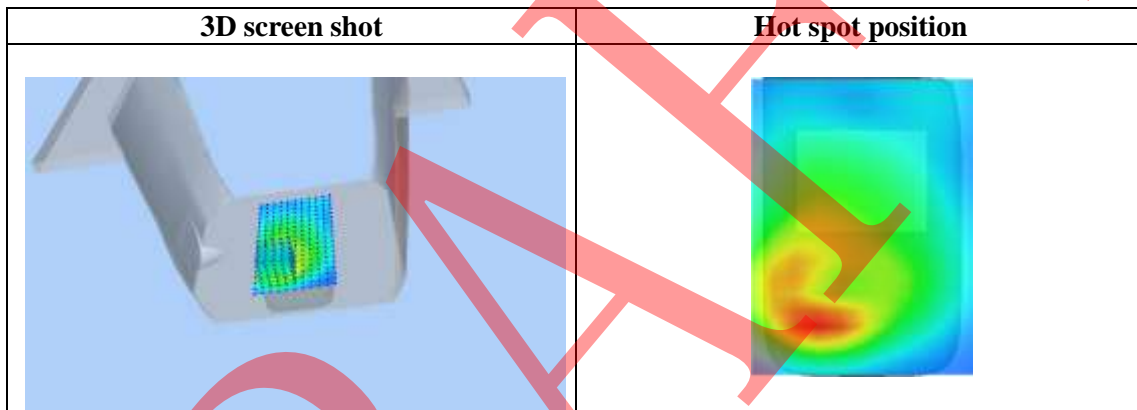
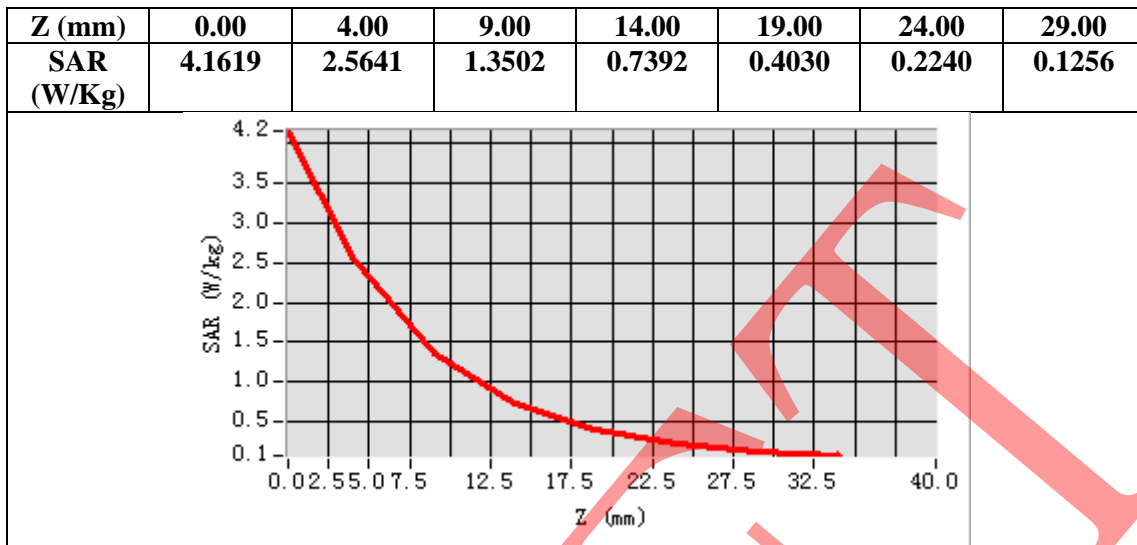
Configuration/WCDMA Band I Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/WCDMA Band I Mid-Body-Back//Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band I
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-16.00, Y=-47.00
SAR Peak: 4.12 W/kg

SAR 10g (W/Kg)	1.155047
SAR 1g (W/Kg)	2.357709



DRAFT

Test Laboratory: AGC Lab
WCDMA Band I High-Body-Towards Grounds (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 20,2016

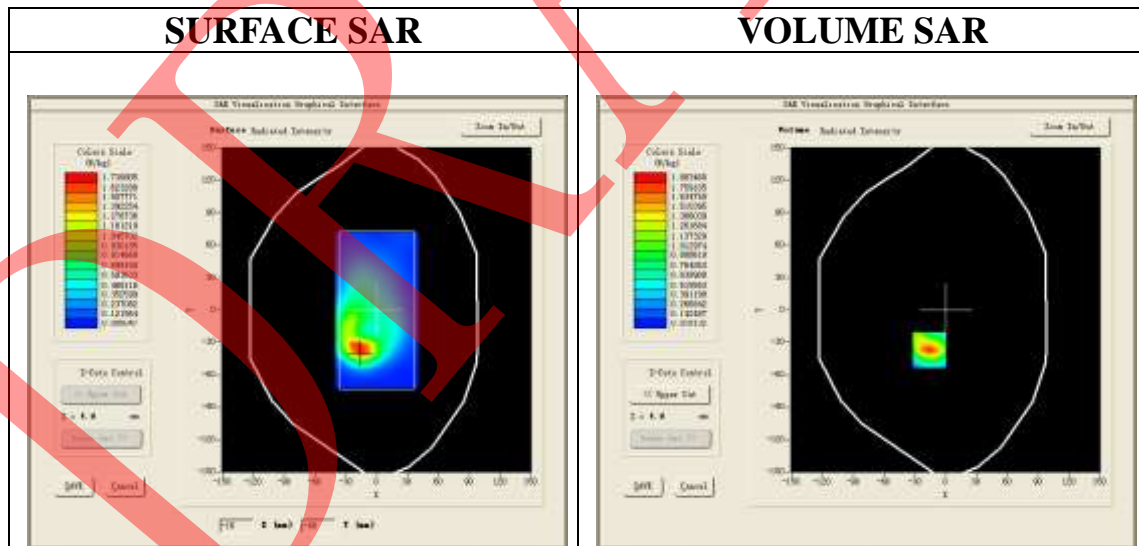
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.25;
Frequency: 1977.6MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

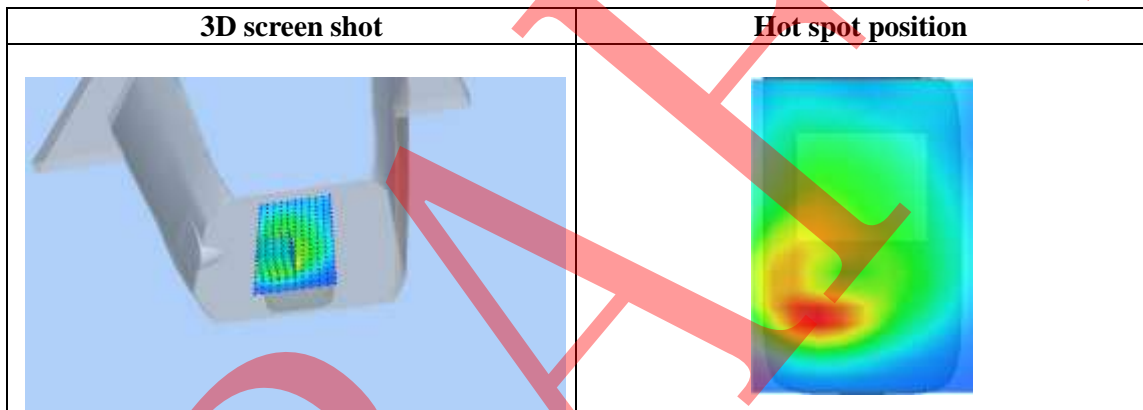
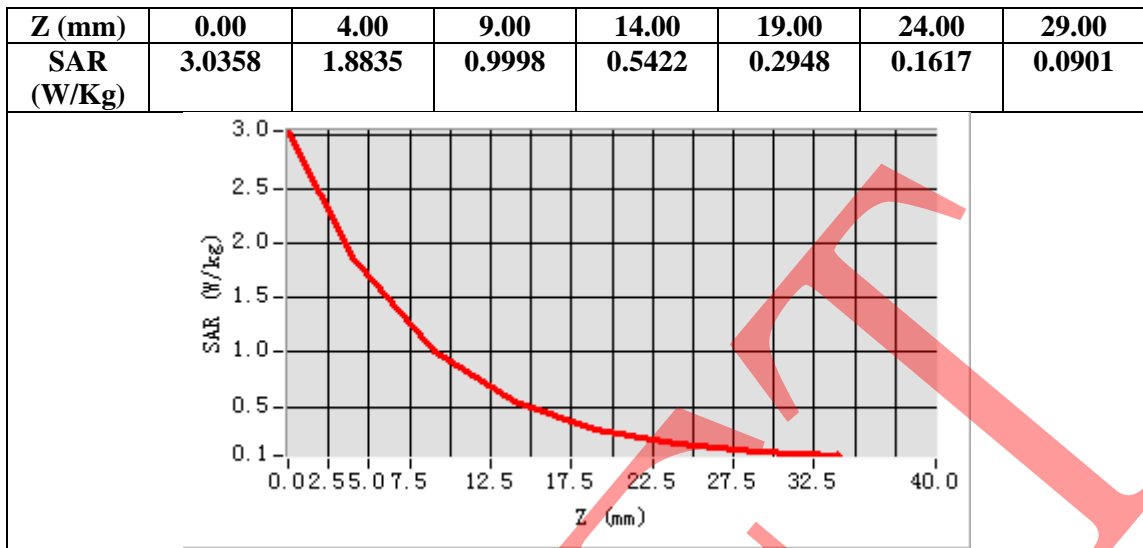
Configuration/WCDMA Band I High -Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/WCDMA Band I High -Body-Back//Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band I
Channels	High
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-16.00, Y=-37.00
SAR Peak: 3.01 W/kg

SAR 10g (W/Kg)	0.829994
SAR 1g (W/Kg)	1.722000



Test Laboratory: AGC Lab
WCDMA Band I Mid- Body- Towards Phantom (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 20,2016

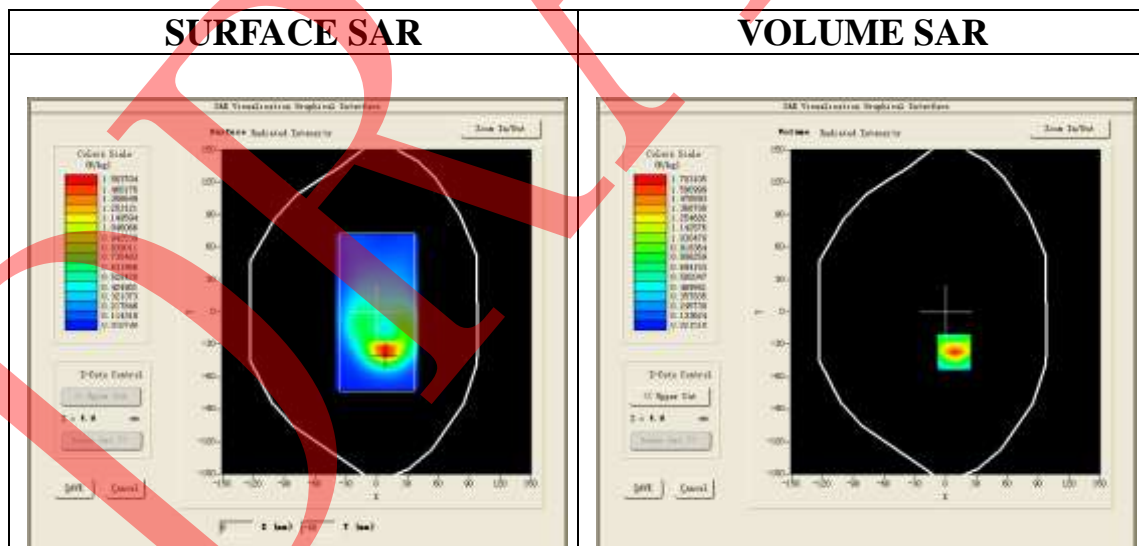
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.25;
Frequency: 1950MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

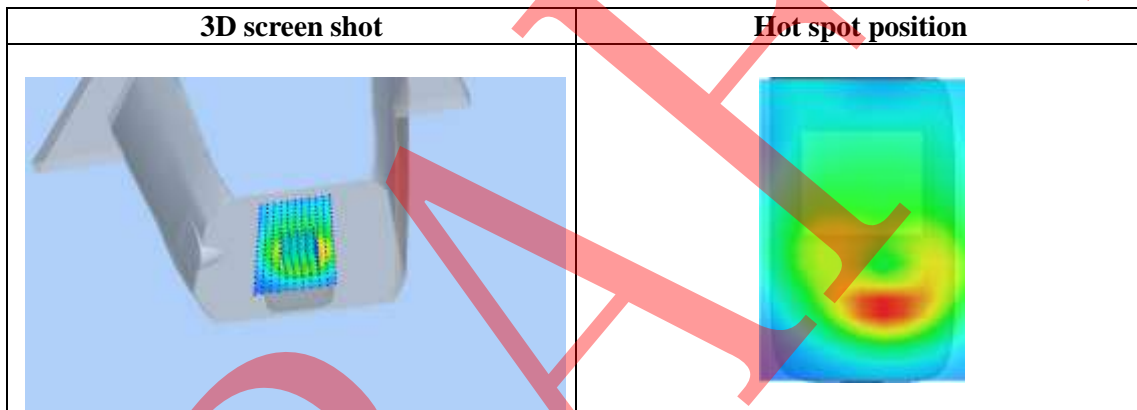
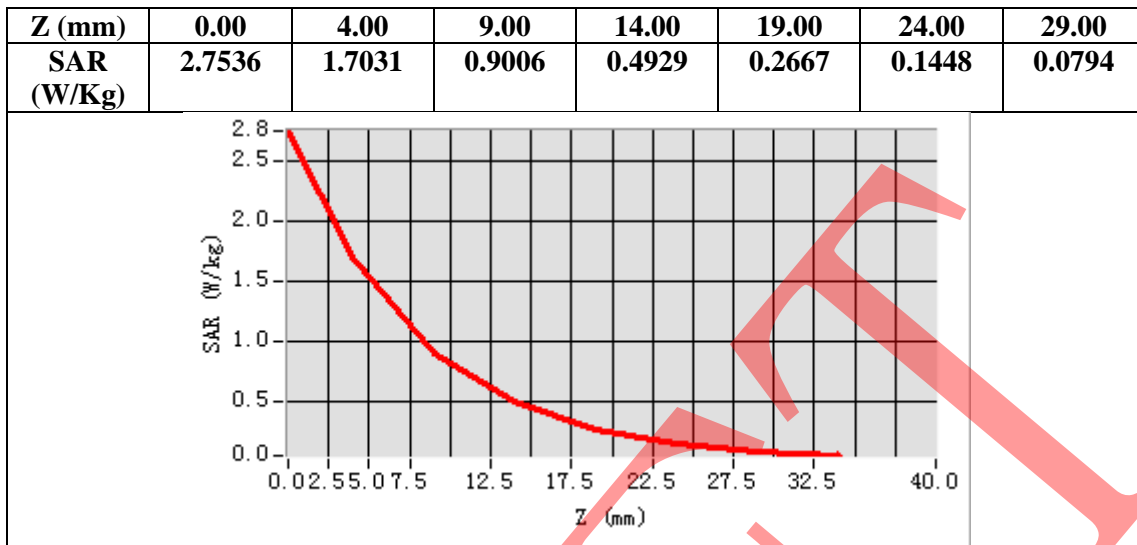
Configuration/WCDMA Band I Mid-Body-Front/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/WCDMA Band I Mid-Body-Front//Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA Band I
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=8.00, Y=-37.00
SAR Peak: 2.75 W/kg

SAR 10g (W/Kg)	0.759338
SAR 1g (W/Kg)	1.564666



DRAFT

Test Laboratory: AGC Lab
WCDMA Band I Low-Body-Towards Grounds (HSPA)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 20,2016

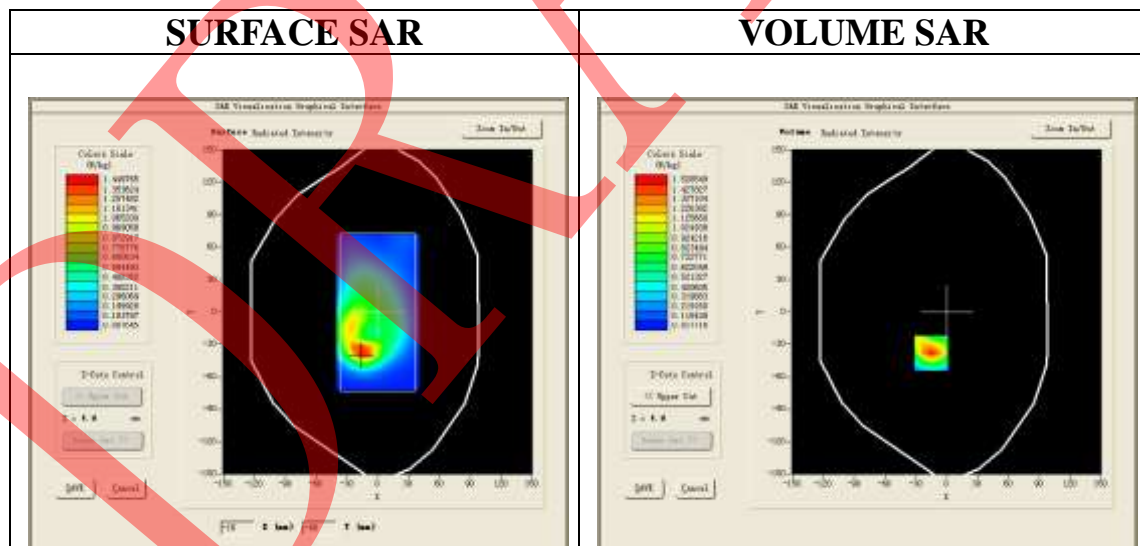
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.25;
Frequency: 1922.4MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

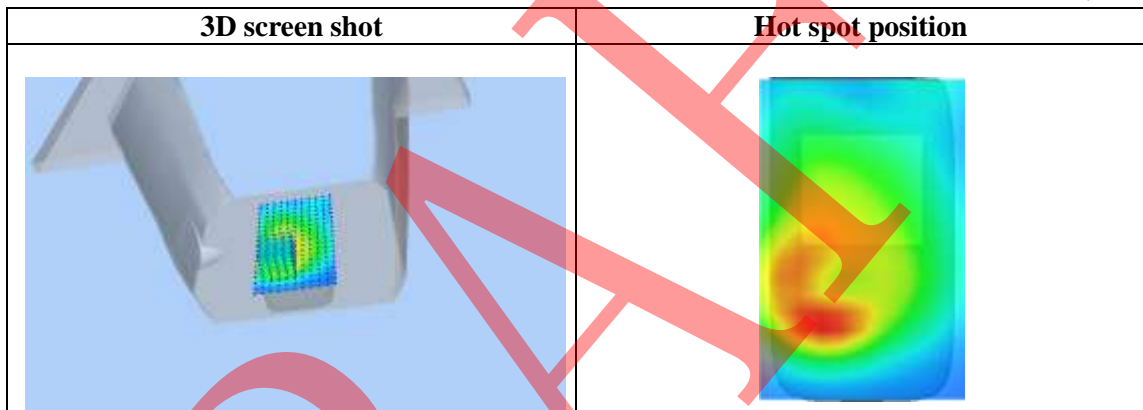
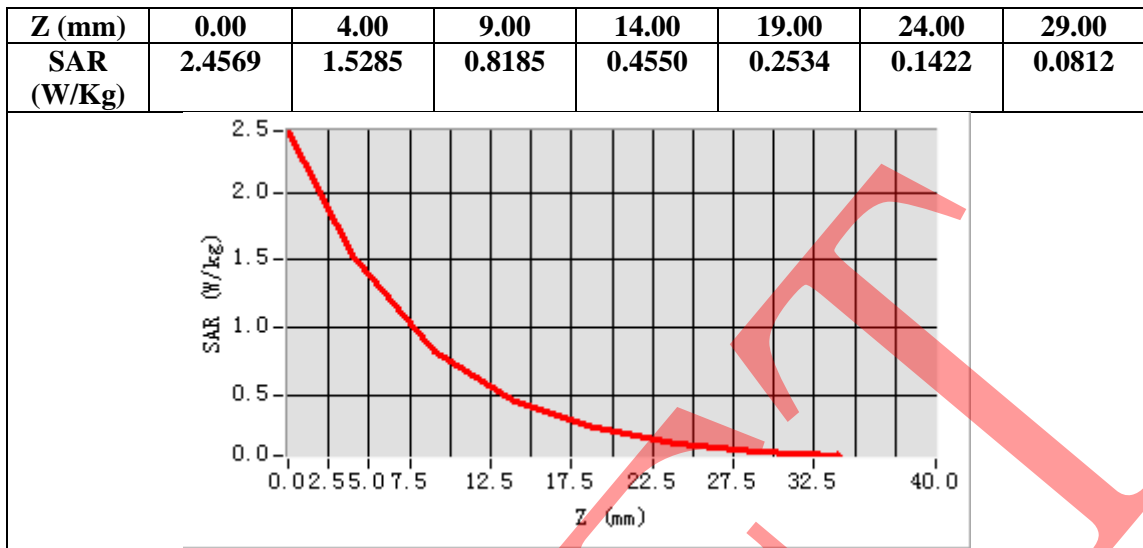
Configuration/WCDMA Band I Low -Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/WCDMA Band I Low -Body-Back//Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band I
Channels	Low
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-15.00, Y=-38.00
SAR Peak: 2.44 W/kg

SAR 10g (W/Kg)	0.705304
SAR 1g (W/Kg)	1.416174



Test Laboratory: AGC Lab
WCDMA Band I Mid-Body-Towards Grounds (HSPA)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 20,2016

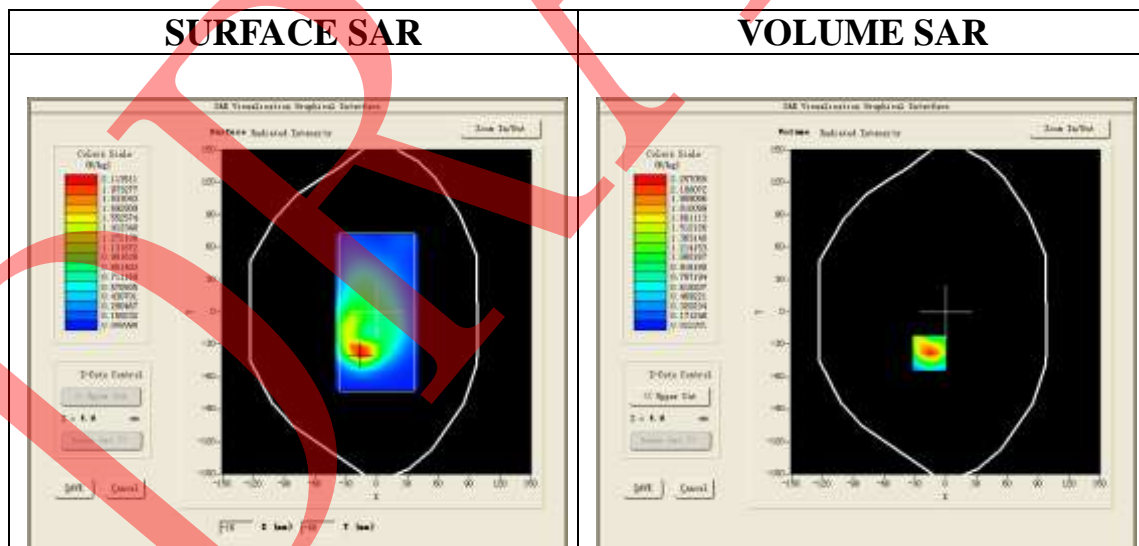
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.25;
Frequency: 1950MHz; Medium parameters used: $f = 2000 \text{ MHz}$; $\sigma = 1.37 \text{ mho/m}$; $\epsilon_r = 39.75$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$):20.5, Liquid temperature ($^{\circ}\text{C}$):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

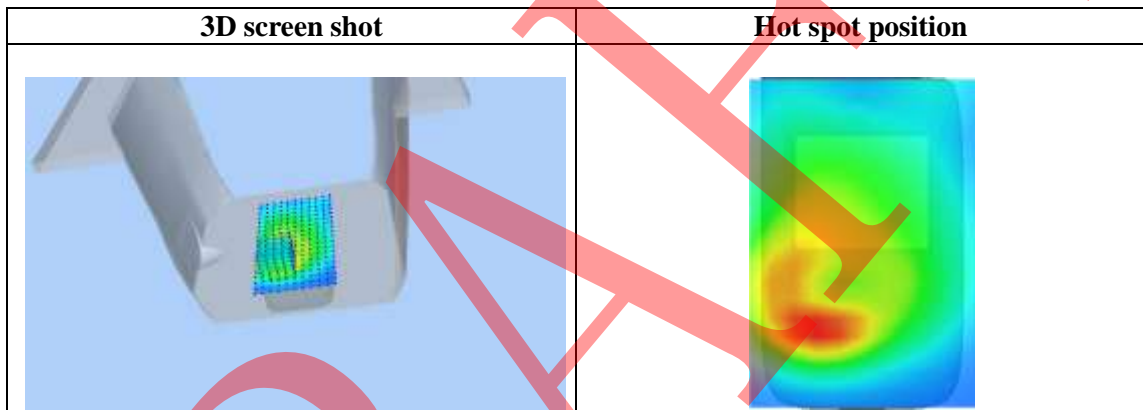
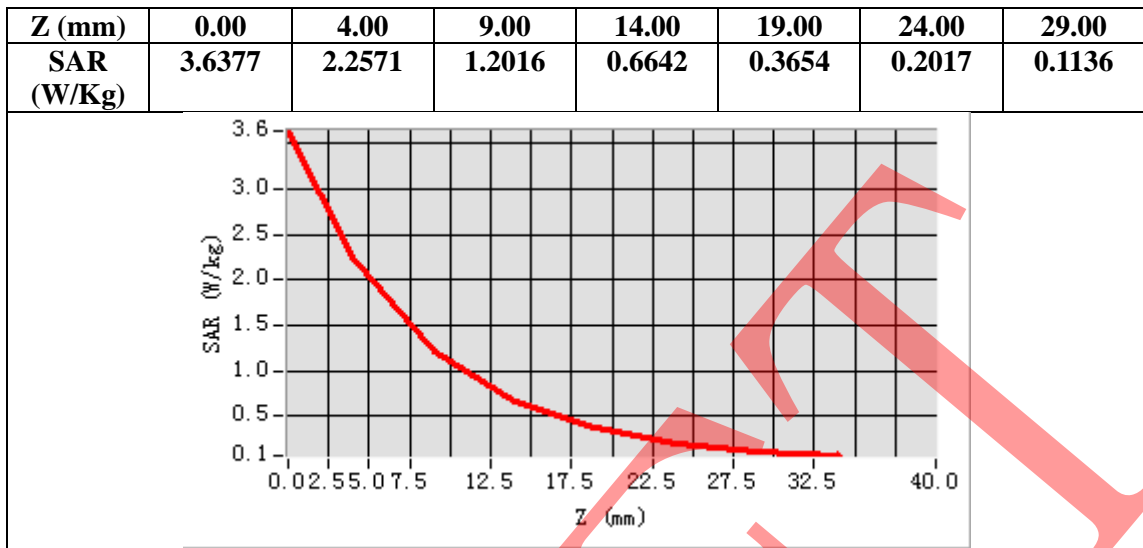
Configuration/WCDMA Band I Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/WCDMA Band I Mid-Body-Back//Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band I
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-16.00, Y=-38.00
SAR Peak: 3.63 W/kg

SAR 10g (W/Kg)	1.029042
SAR 1g (W/Kg)	2.092736



Test Laboratory: AGC Lab
WCDMA Band I High-Body-Towards Grounds (HSPA)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 20,2016

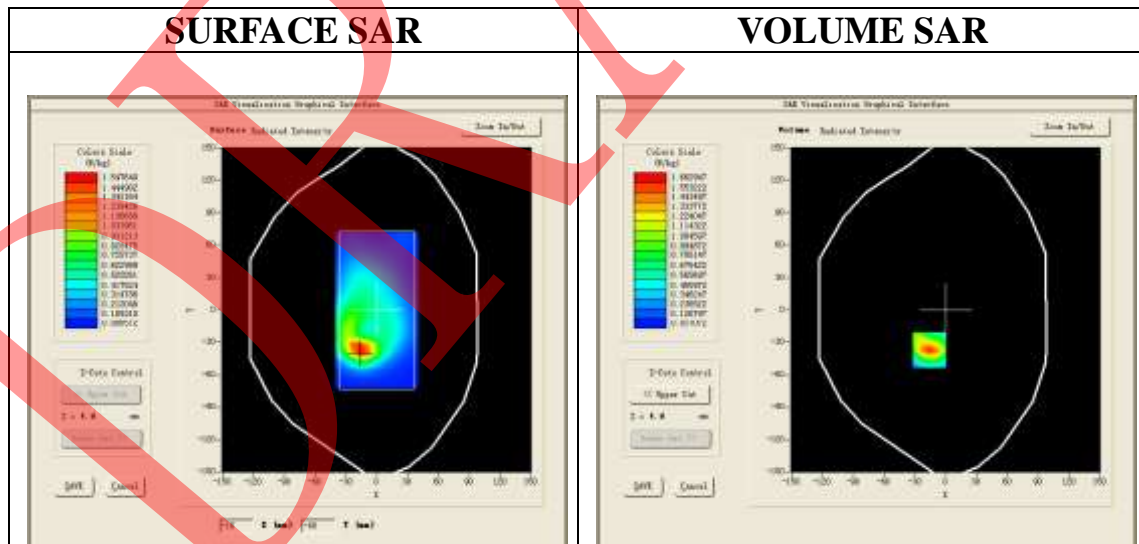
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.25;
Frequency: 1977.6MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/WCDMA Band I High -Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/WCDMA Band I High -Body-Back//Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band I
Channels	High
Signal	CDMA (Crest factor: 1.0)

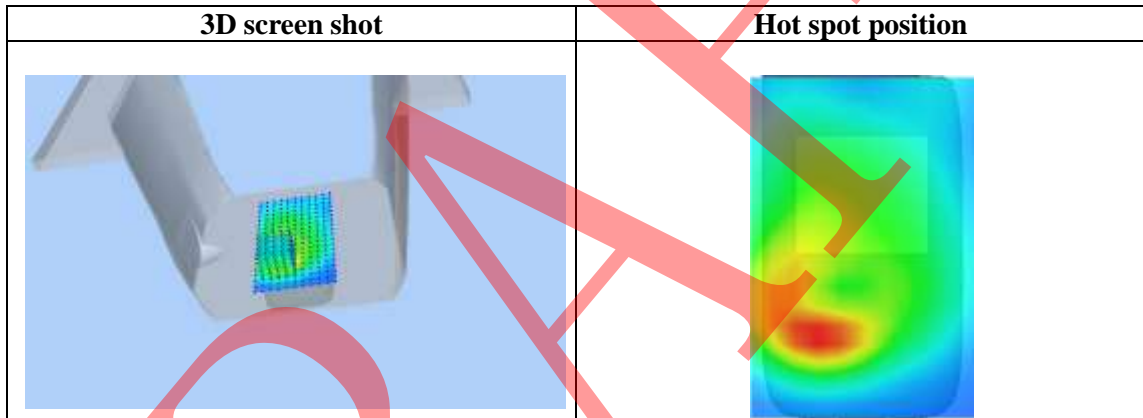
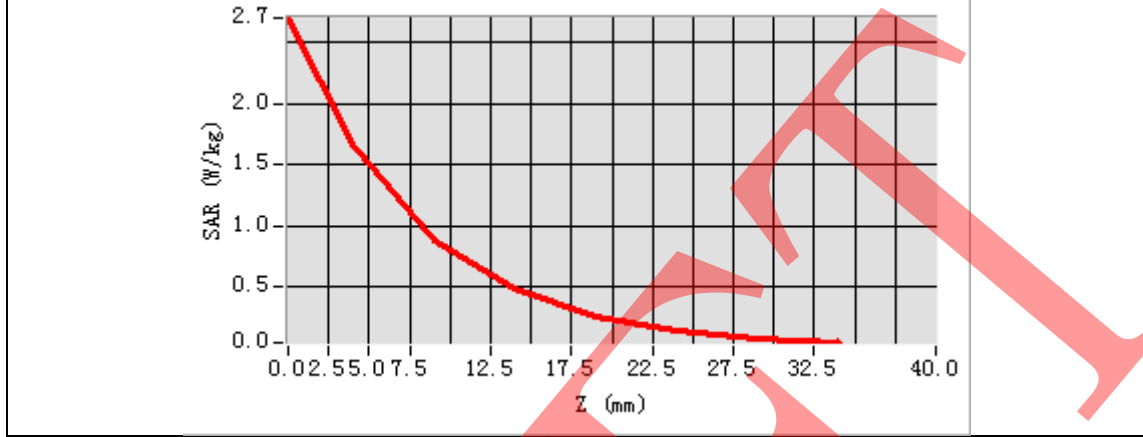


Maximum location: X=-16.00, Y=-37.00

SAR Peak: 2.67 W/kg

SAR 10g (W/Kg)	0.739908
SAR 1g (W/Kg)	1.528244

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.6982	1.6629	0.8756	0.4816	0.2612	0.1445	0.0803



Test Laboratory: AGC Lab
WCDMA Band I Mid- Body- Towards Grounds (RMC) - with earphone
DUT: 3G Dual-SIM Smartphone; **Type:** Volt S

Date: Dec. 20,2016

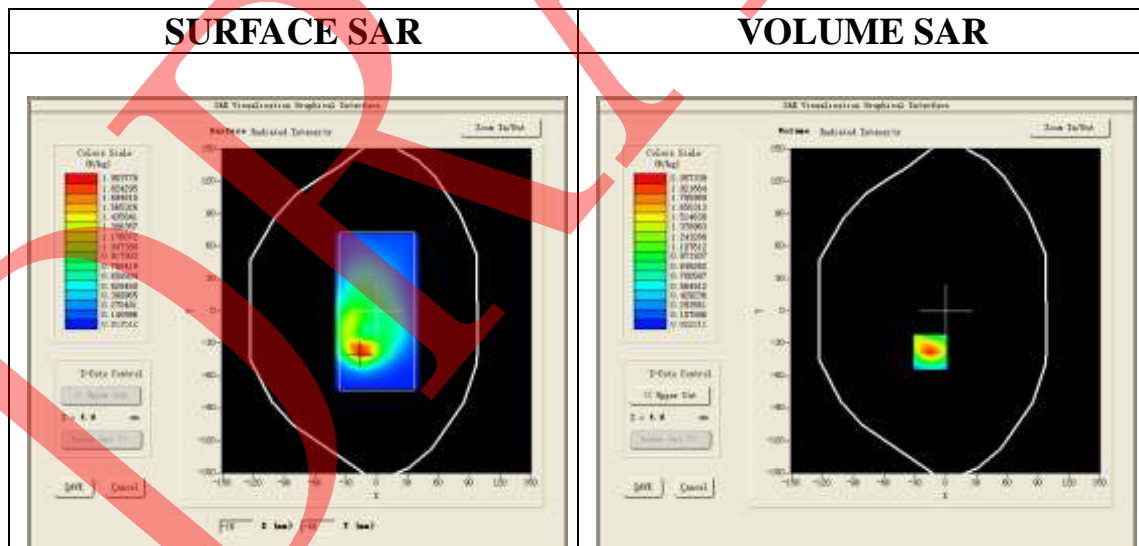
Communication System: UMTS; Communication System Band: Band I UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.25;
Frequency: 1950MHz; Medium parameters used: $f = 2000$ MHz; $\sigma = 1.37$ mho/m; $\epsilon_r = 39.75$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.5, Liquid temperature (°C):19.6

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/WCDMA Band I Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/WCDMA Band I Mid-Body-Back//Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

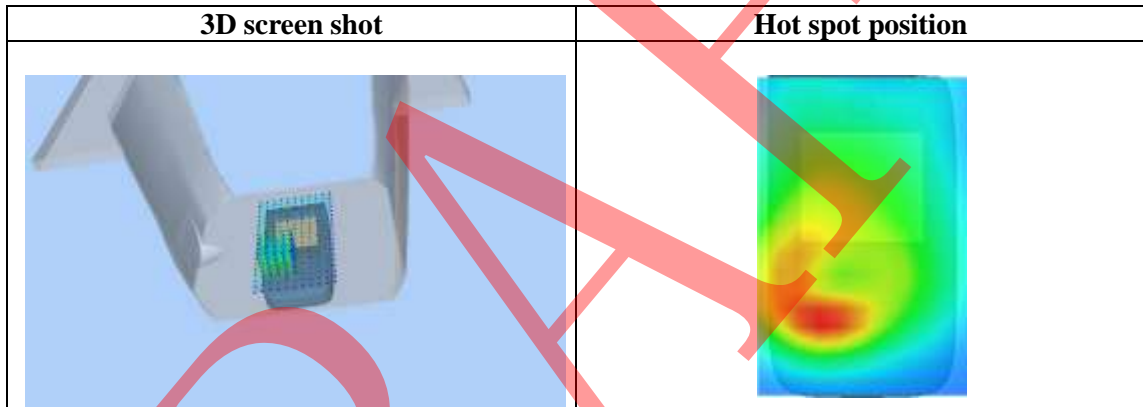
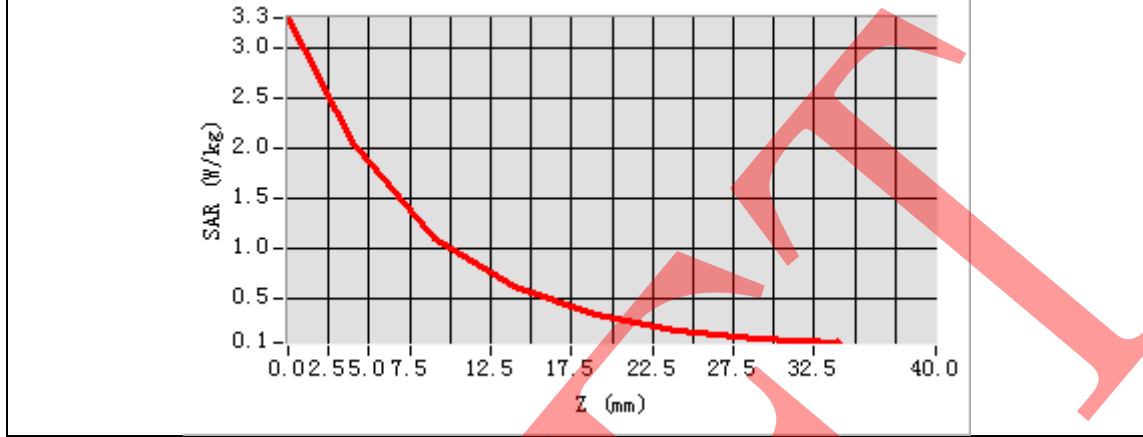
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band I
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-15.00, Y=-38.00
SAR Peak: 3.29 W/kg

SAR 10g (W/Kg)	0.946759
SAR 1g (W/Kg)	1.910170

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.2966	2.0573	1.1044	0.6144	0.3388	0.1899	0.1070



Test Laboratory: AGC Lab
WCDMA Band VIII Mid-Touch-Left (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

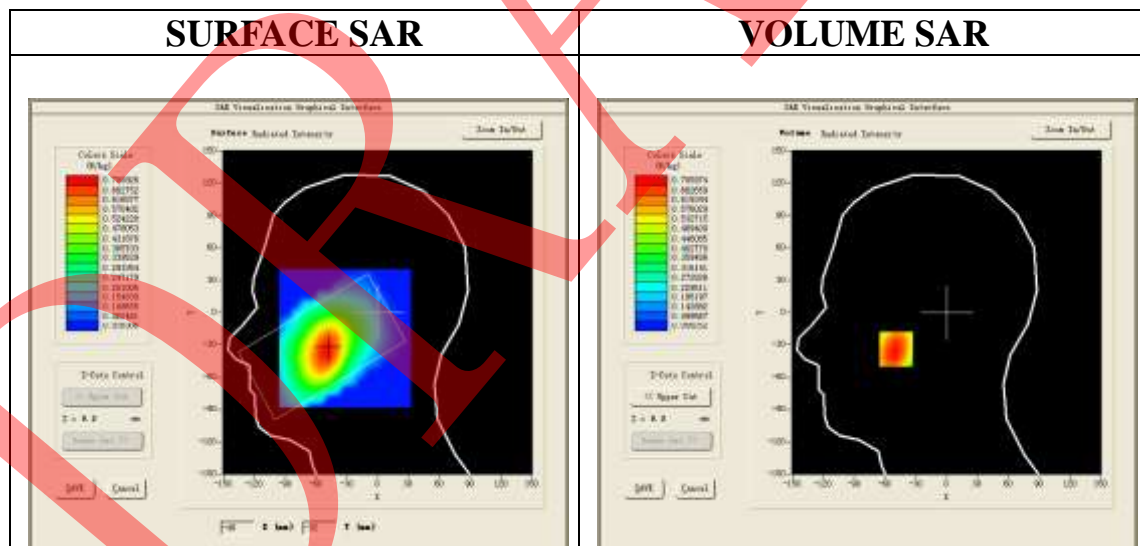
Communication System: UMTS; Communication System Band: Band VIII UTRA/FDD; Duty Cycle:1:1; Conv.F=5.39
Frequency: 897.6MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band VIII Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band VIII Mid-Touch-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm

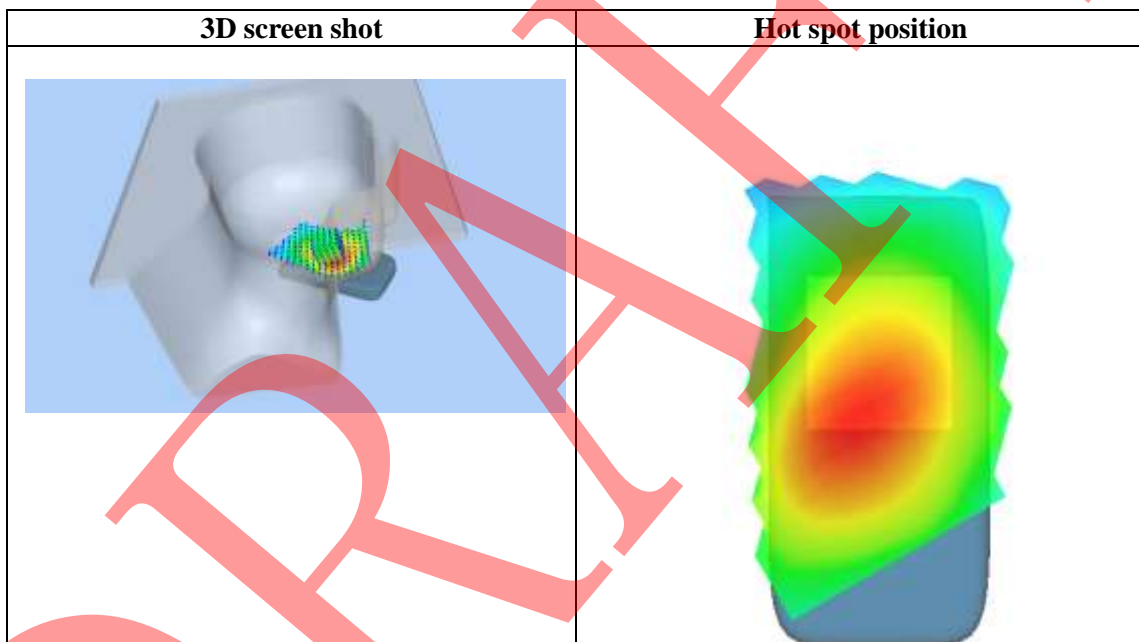
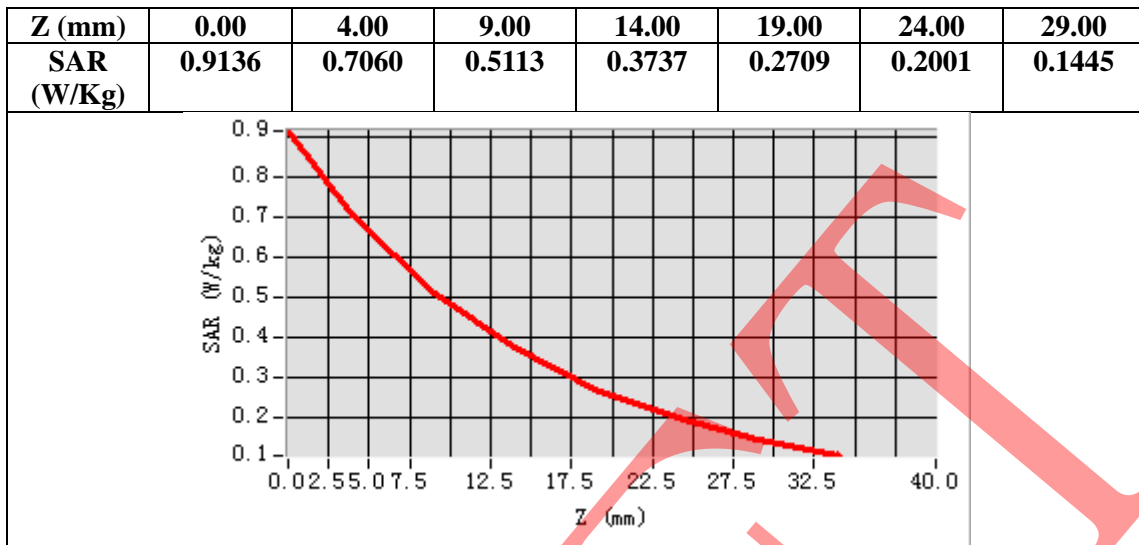
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA Band VIII
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



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

SAR Peak: 0.92 W/kg

SAR 10g (W/Kg)	0.472689
SAR 1g (W/Kg)	0.682780



Test Laboratory: AGC Lab
WCDMA Band VIII Mid- Tilt-Left (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

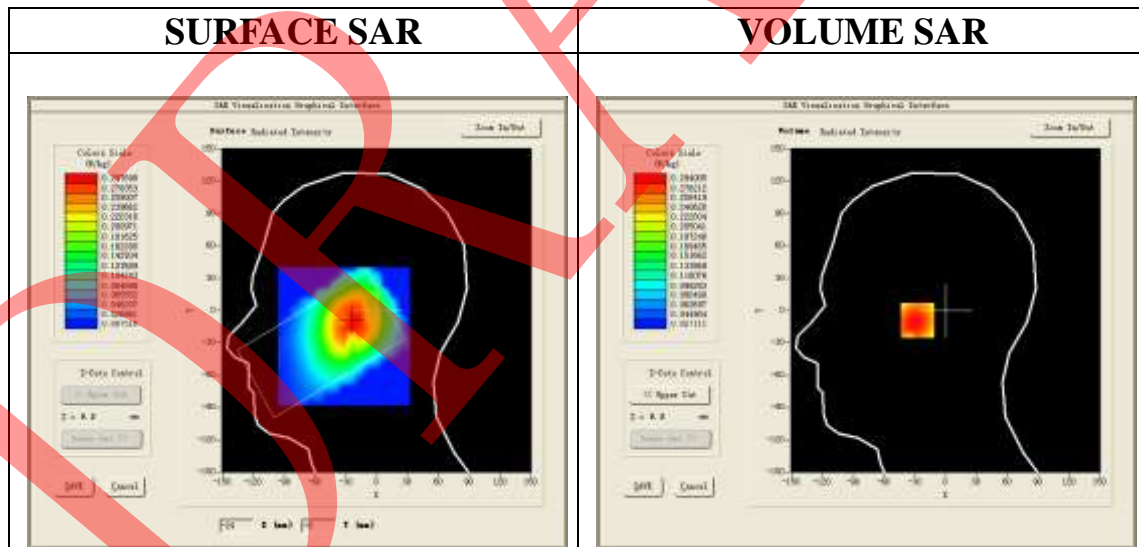
Communication System: UMTS; Communication System Band: Band VIII UTRA/FDD; Duty Cycle:1:1; Conv.F=5.39
Frequency: 897.6 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band VIII Mid-Tilt-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band VIII Mid-Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	WCDMA Band VIII
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

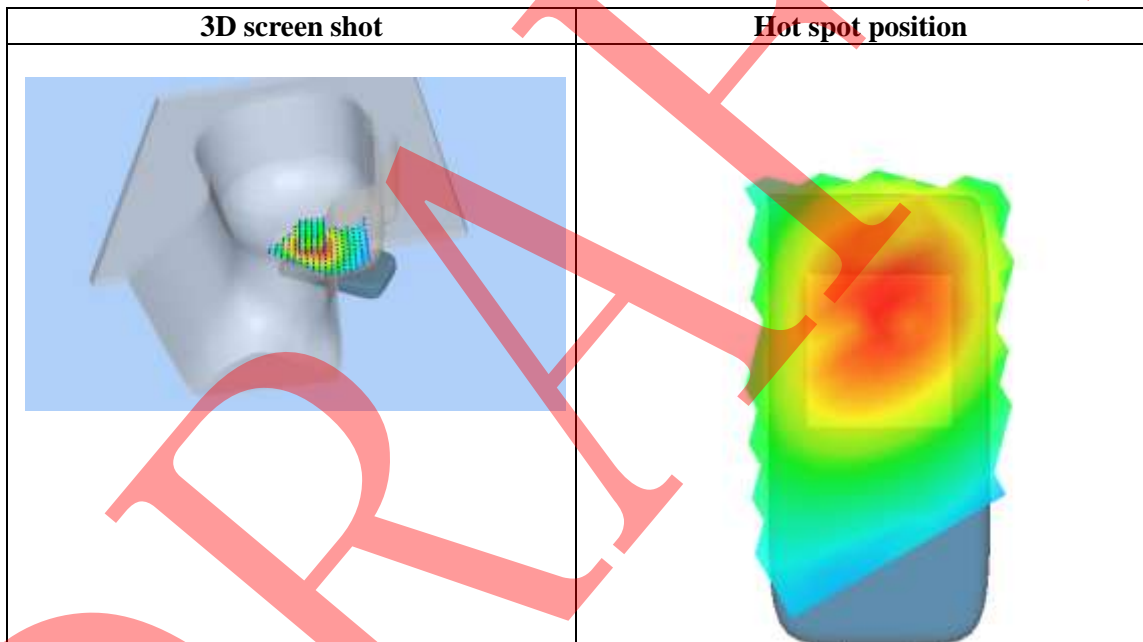
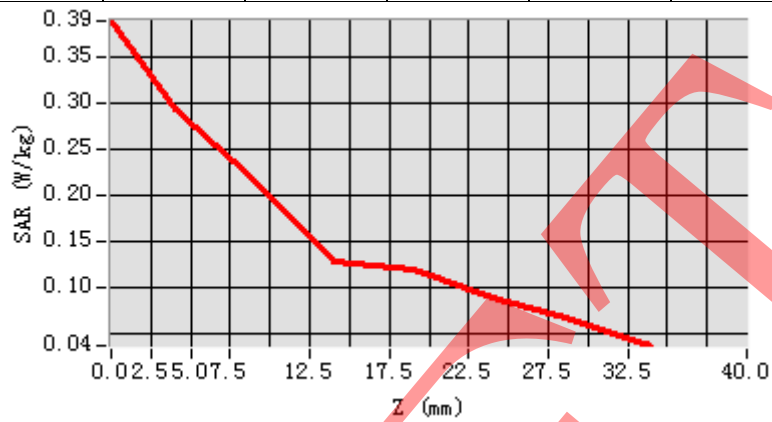


Maximum location: X=-22.00, Y=-9.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.197845
SAR 1g (W/Kg)	0.283337

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3890	0.2940	0.2169	0.1288	0.1189	0.0884	0.0645



Test Laboratory: AGC Lab
WCDMA Band VIII Mid- Touch-Right (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

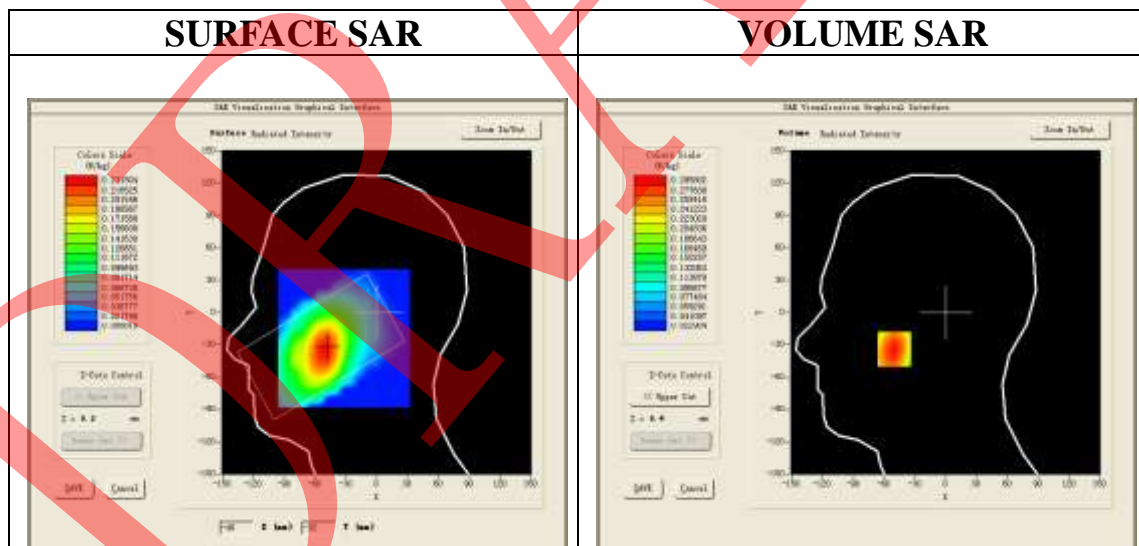
Communication System: UMTS; Communication System Band: Band VIII UTRA/FDD; Duty Cycle:1:1; Conv.F=5.39
Frequency: 897.6MHz;; Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 41.11$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Right Section
Ambient temperature ($^{\circ}\text{C}$): 20.8, Liquid temperature ($^{\circ}\text{C}$): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band VIII Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band VIII Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

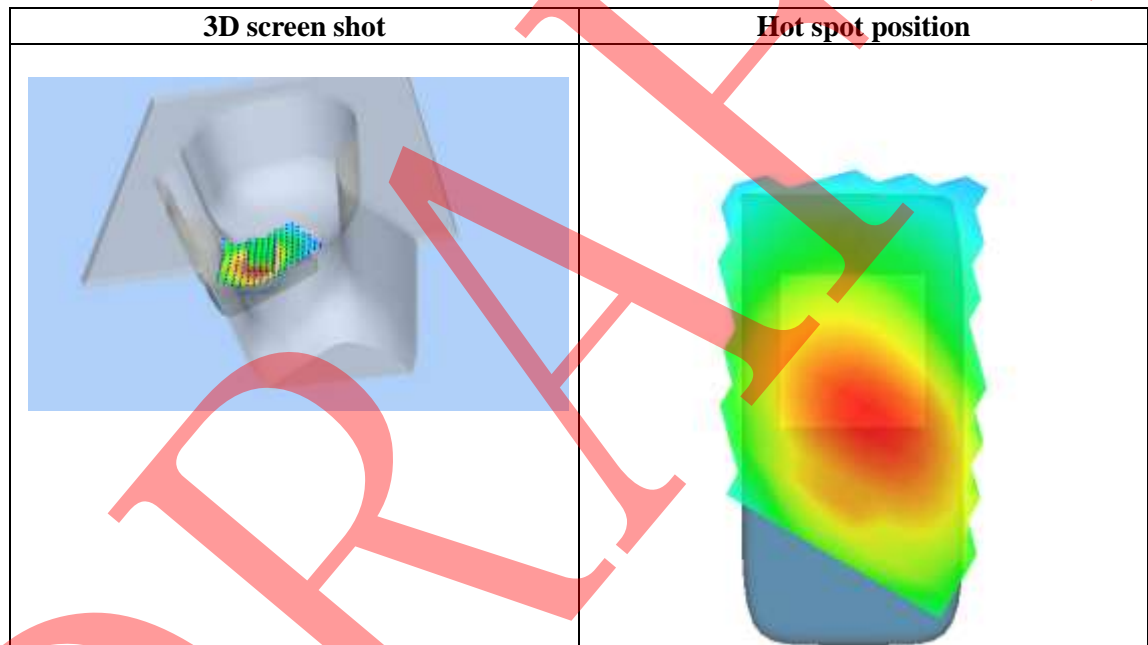
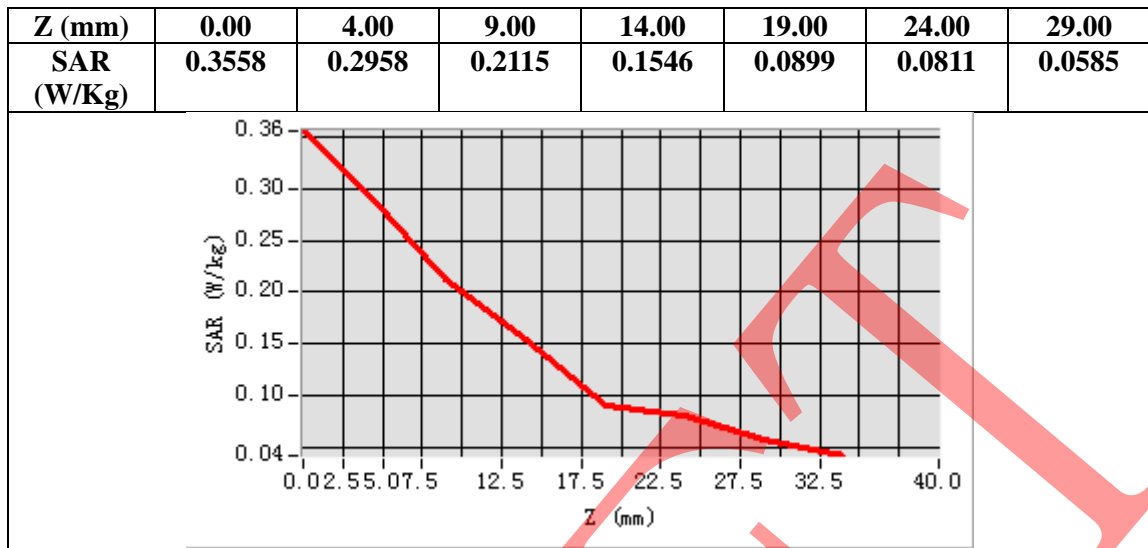
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band VIII
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-50.00, Y=-34.00

SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.190357
SAR 1g (W/Kg)	0.275140



Test Laboratory: AGC Lab
WCDMA Band VIII Mid-Tilt-Right (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

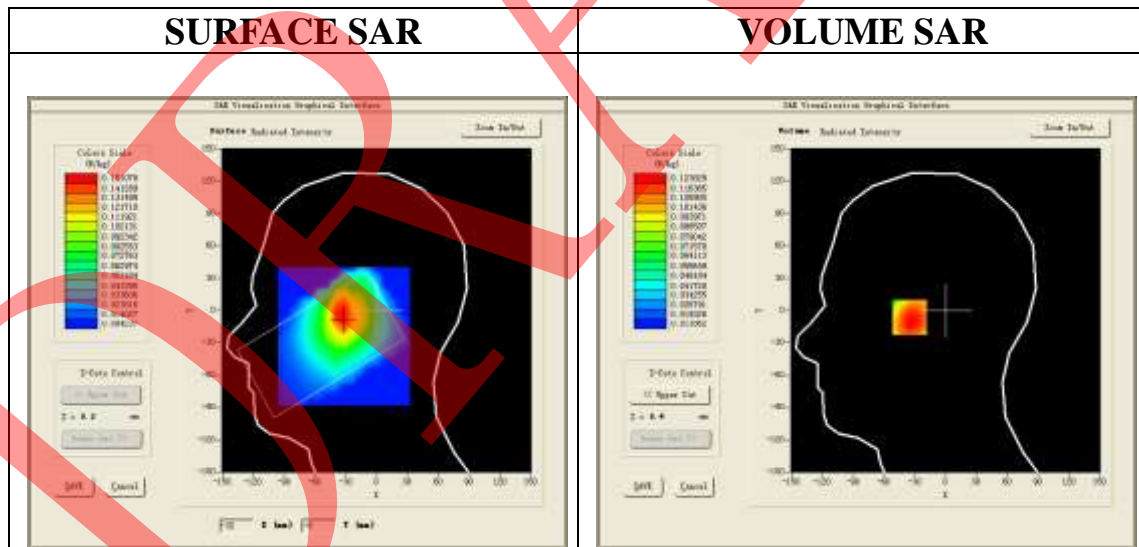
Communication System: UMTS; Communication System Band: Band VIII UTRA/FDD; Duty Cycle:1:1; Conv.F=5.39
Frequency: 897.6 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band VIII Mid-Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band VIII Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Tilt
Band	WCDMA Band VIII
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

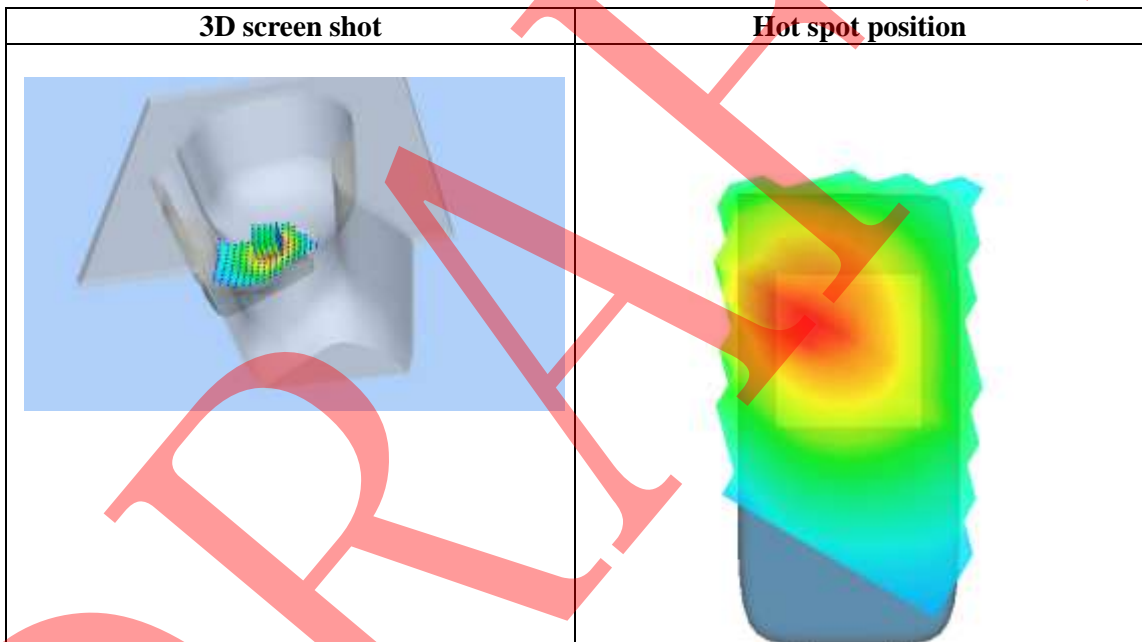
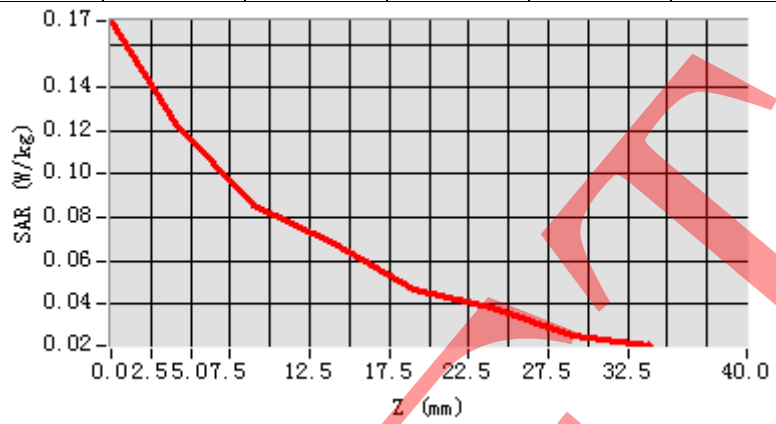


Maximum location: X=-34.00, Y=-5.00

SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.086011
SAR 1g (W/Kg)	0.121472

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1707	0.1238	0.0857	0.0685	0.0472	0.0383	0.0259



Test Laboratory: AGC Lab
WCDMA Band VIII Low-Body-Towards Grounds (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

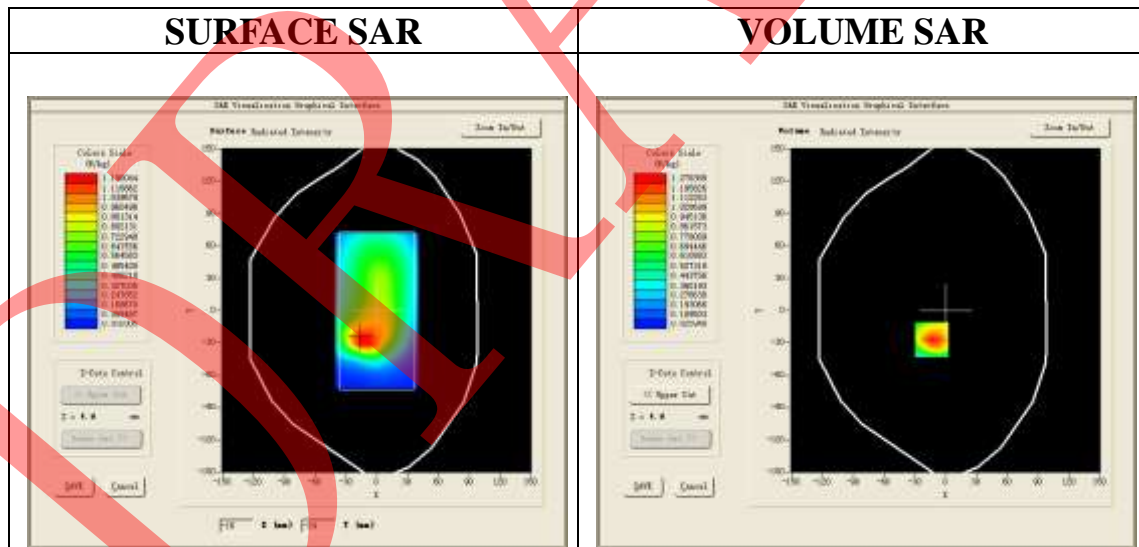
Communication System: UMTS; Communication System Band: Band VIII UTRA/FDD; Duty Cycle:1:1; Conv.F=5.39
Frequency: 882.4MHz; Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 41.11$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 20.8, Liquid temperature ($^{\circ}\text{C}$): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band VIII Low -Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band VIII Low -Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band VIII
Channels	Low
Signal	CDMA (Crest factor: 1.0)

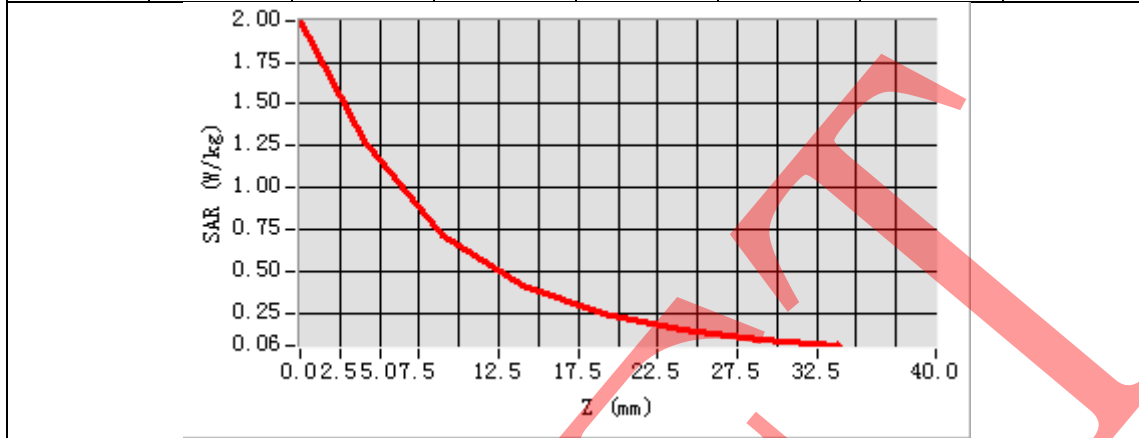


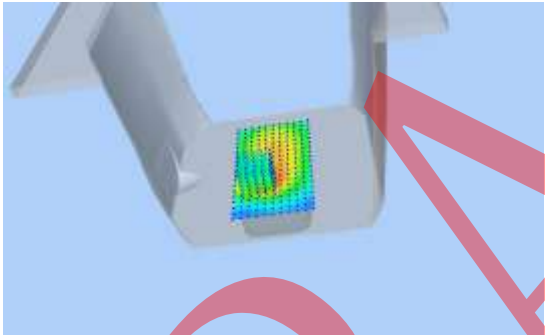
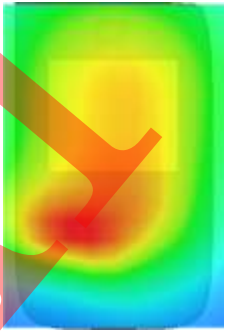
Maximum location: X=-14.00, Y=-27.00

SAR Peak: 2.00 W/kg

SAR 10g (W/Kg)	0.674093
SAR 1g (W/Kg)	1.212224

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.9961	1.2794	0.7201	0.4176	0.2484	0.1511	0.0933



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab
WCDMA Band VIII Mid-Body-Towards Grounds (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

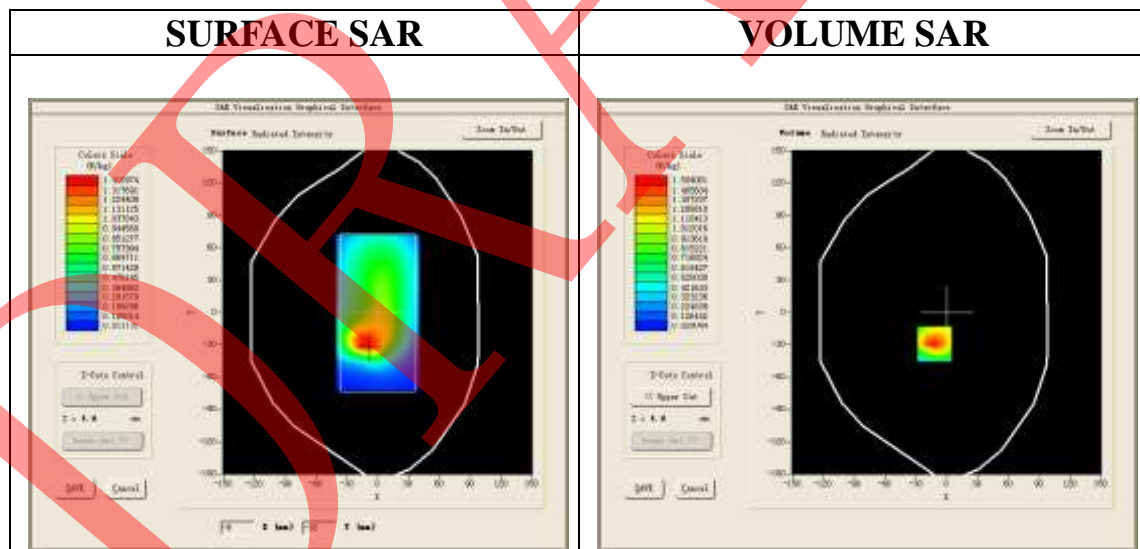
Communication System: UMTS; Communication System Band: Band VIII UTRA/FDD; Duty Cycle:1:1; Conv.F=5.39
Frequency: 897.6 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band VIII Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band VIII Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

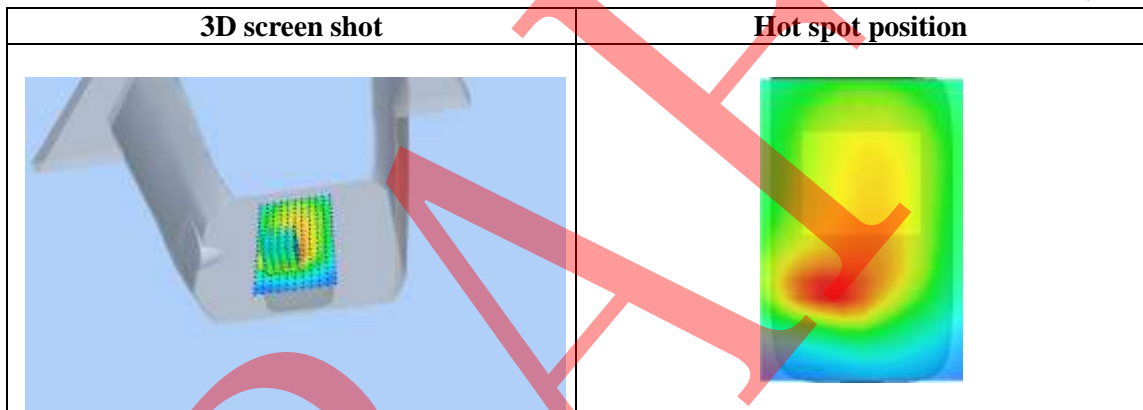
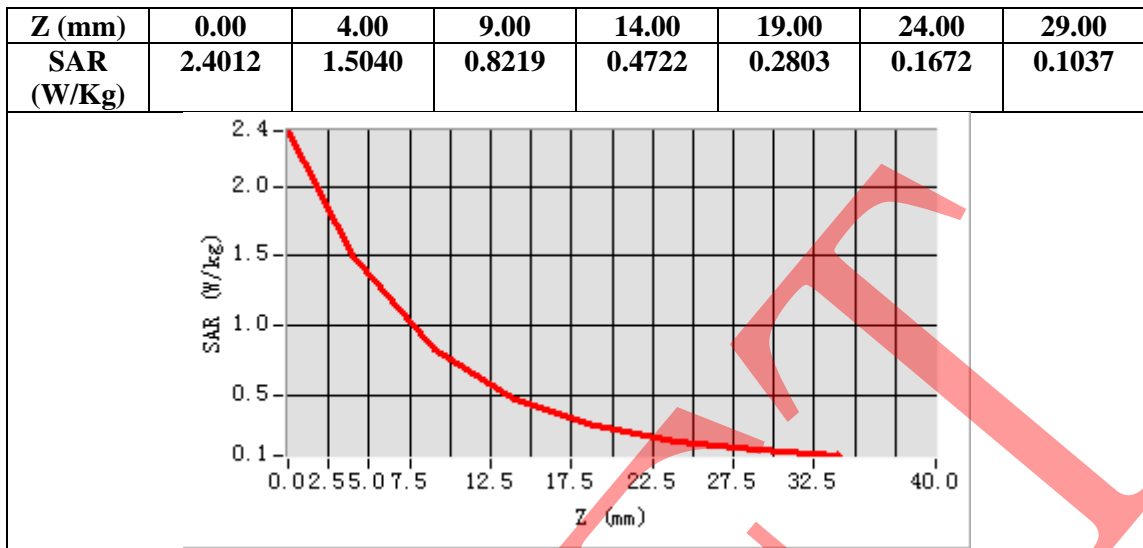
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band VIII
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-12.00, Y=-29.00

SAR Peak: 2.39 W/kg

SAR 10g (W/Kg)	0.772509
SAR 1g (W/Kg)	1.420318



Test Laboratory: AGC Lab
WCDMA Band VIII High-Body-Towards Grounds (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

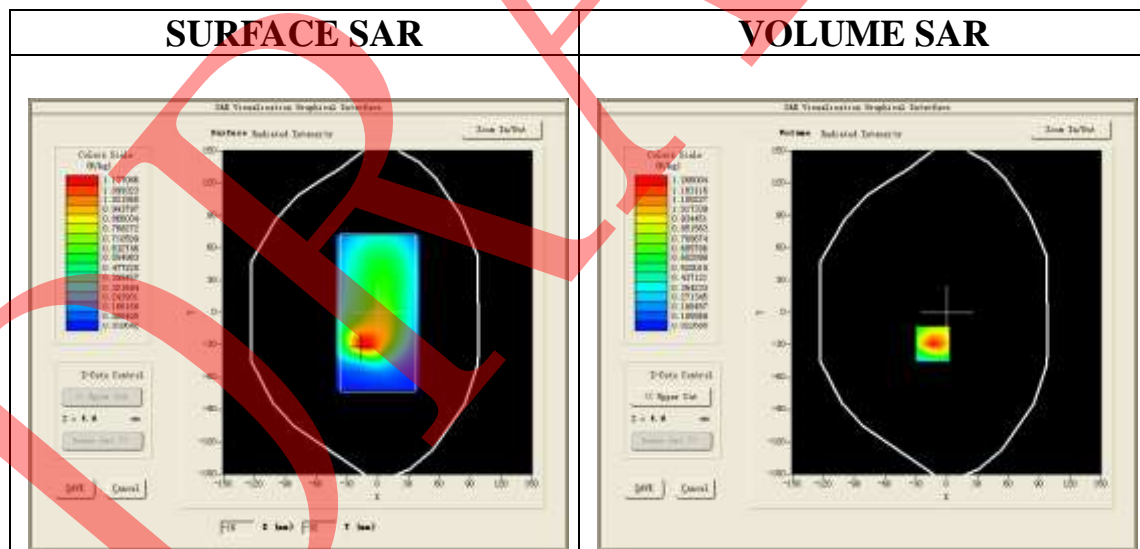
Communication System: UMTS; Communication System Band: Band VIII UTRA/FDD; Duty Cycle:1:1; Conv.F=5.39
Frequency: 912.6 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band VIII High -Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band VIII High -Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band VIII
Channels	High
Signal	CDMA (Crest factor: 1.0)

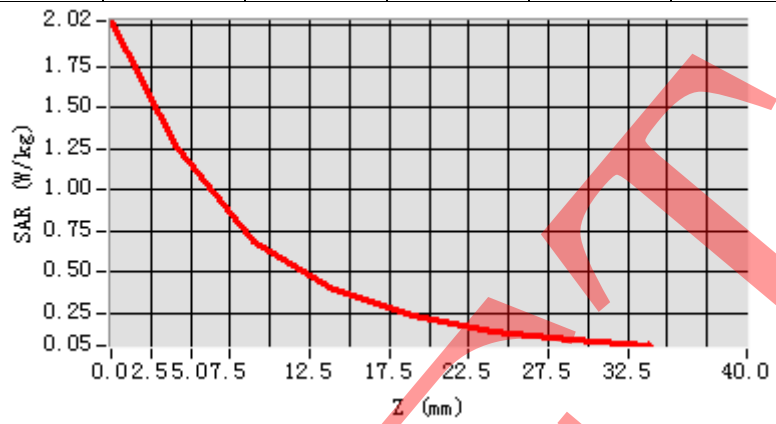


Maximum location: X=-14.00, Y=-29.00

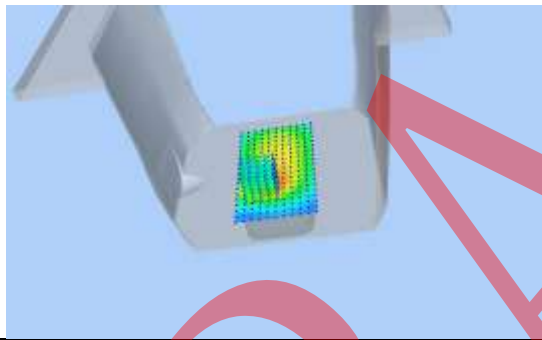
SAR Peak: 2.00 W/kg

SAR 10g (W/Kg)	0.640110
SAR 1g (W/Kg)	1.188958

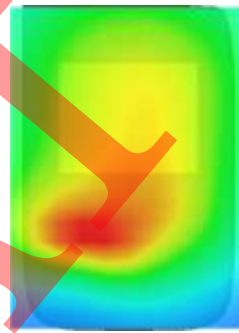
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.0242	1.2660	0.6888	0.3915	0.2296	0.1373	0.0840



3D screen shot



Hot spot position



Test Laboratory: AGC Lab
WCDMA Band VIII Mid-Body-Towards Phantom (RMC)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

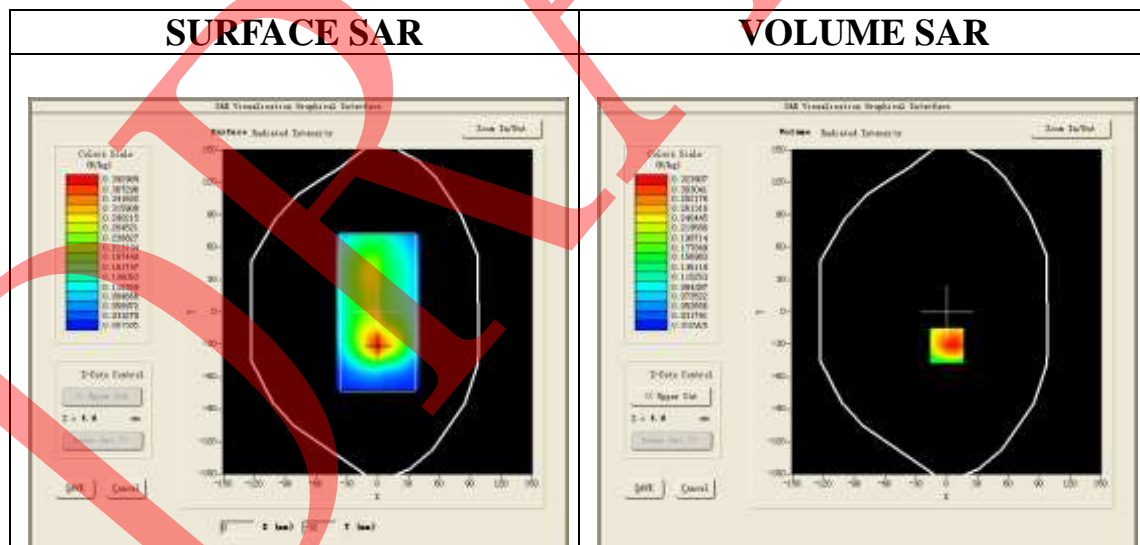
Communication System: UMTS; Communication System Band: Band VIII UTRA/FDD; Duty Cycle:1:1; Conv.F=5.39
Frequency: 897.6MHz; Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 41.11$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 20.8, Liquid temperature ($^{\circ}\text{C}$): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

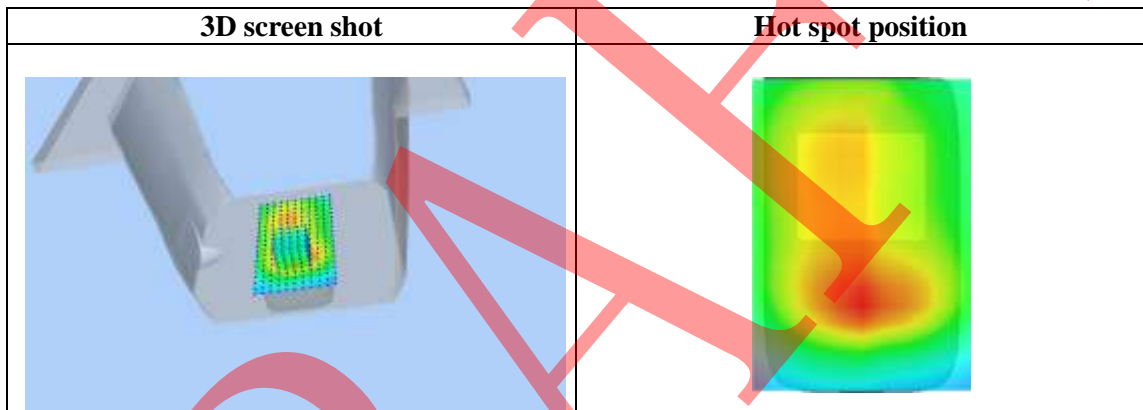
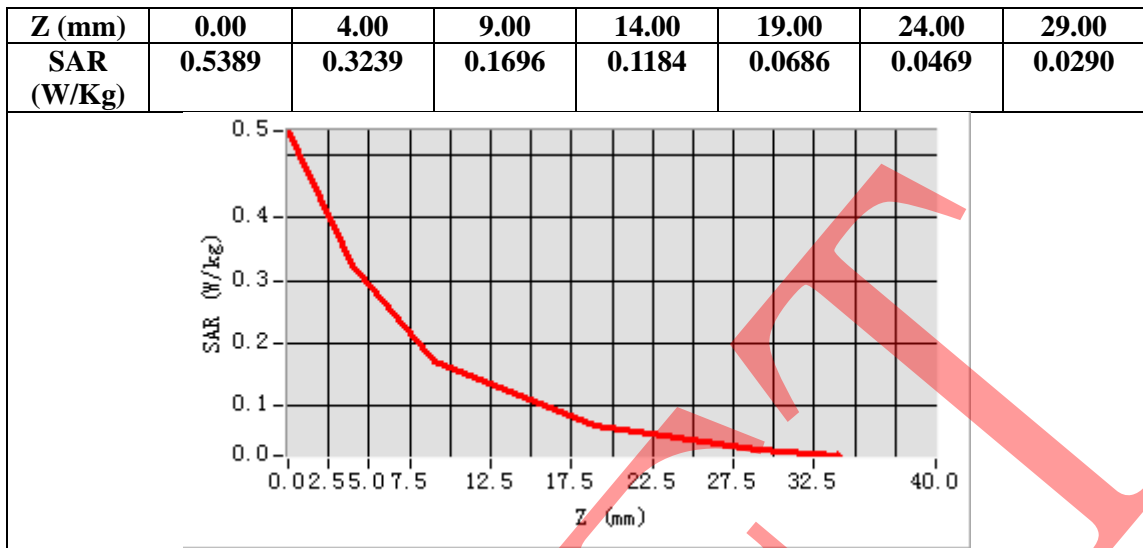
Configuration/ WCDMA Band VIII Mid-Body-Front/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band VIII Mid-Body-Front/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA Band VIII
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=0.00, Y=-31.00
SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.187270
SAR 1g (W/Kg)	0.311047



Test Laboratory: AGC Lab
WCDMA Band VIII Mid-Body-Towards Ground (HSPA)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

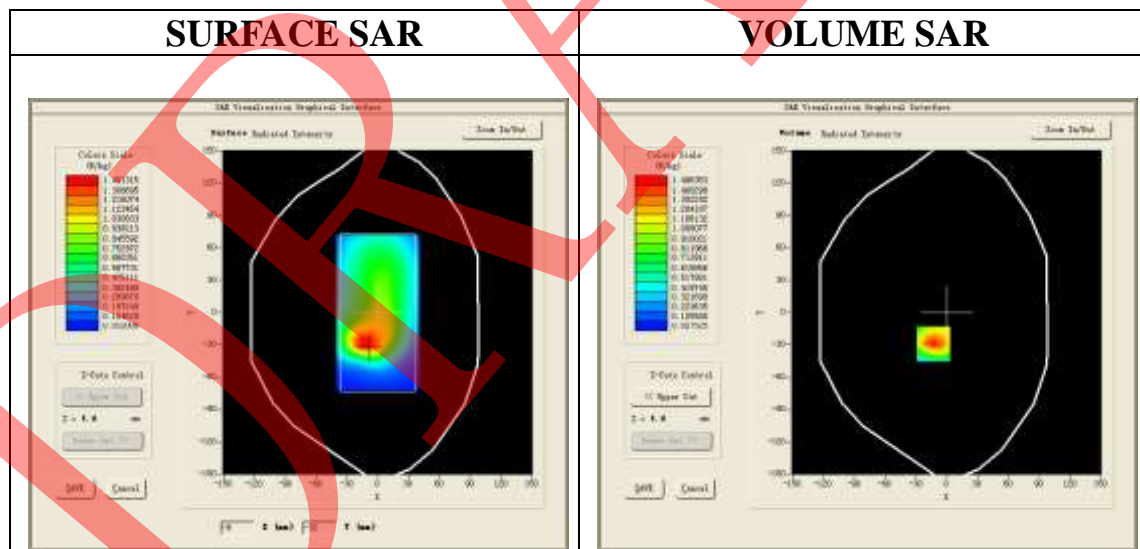
Communication System: UMTS; Communication System Band: Band VIII UTRA/FDD; Duty Cycle:1:1; Conv.F=5.39
Frequency: 897.6 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band VIII Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band VIII Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

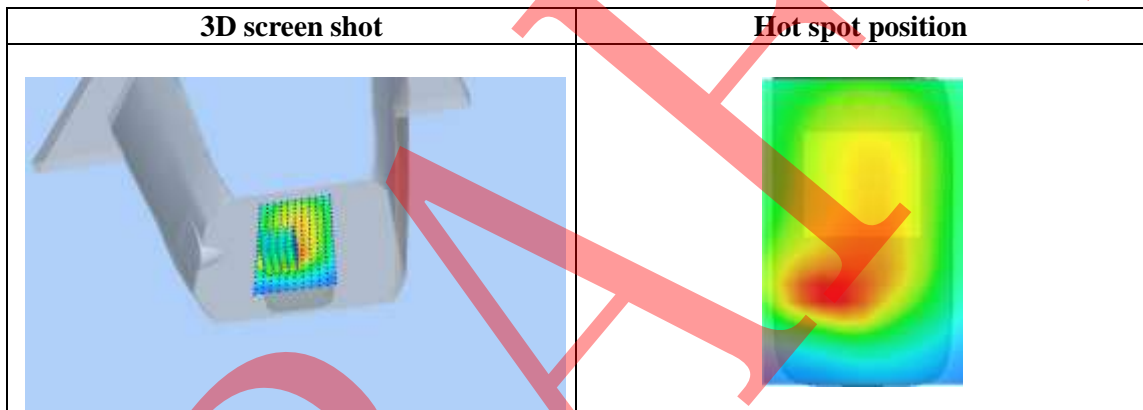
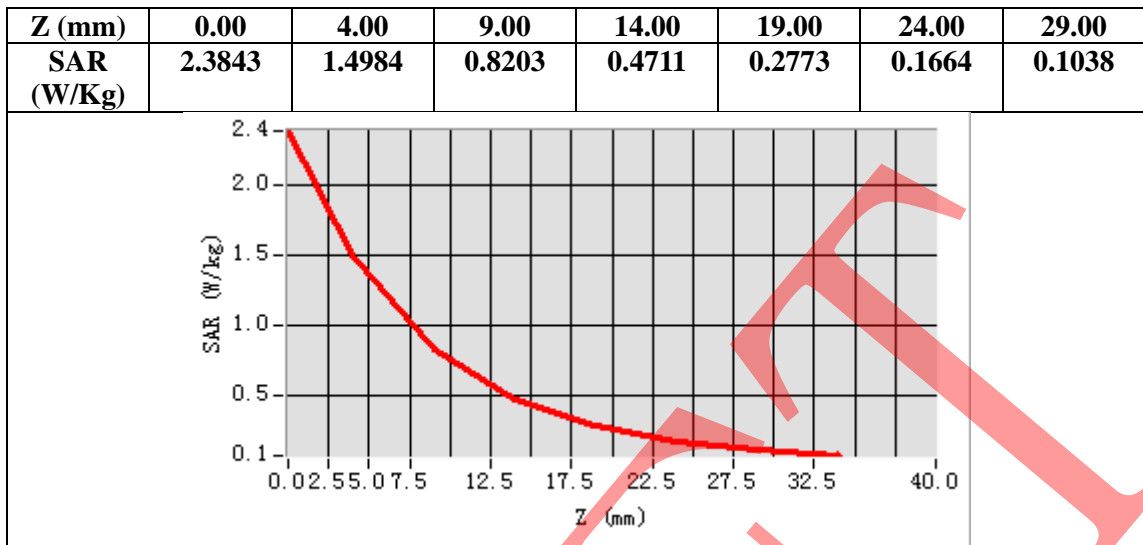
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band VIII
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-13.00, Y=-29.00

SAR Peak: 2.36 W/kg

SAR 10g (W/Kg)	0.769535
SAR 1g (W/Kg)	1.411836



Test Laboratory: AGC Lab
WCDMA Band VIII Mid-Body-Towards Grounds (RMC) - with earphone
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 15,2016

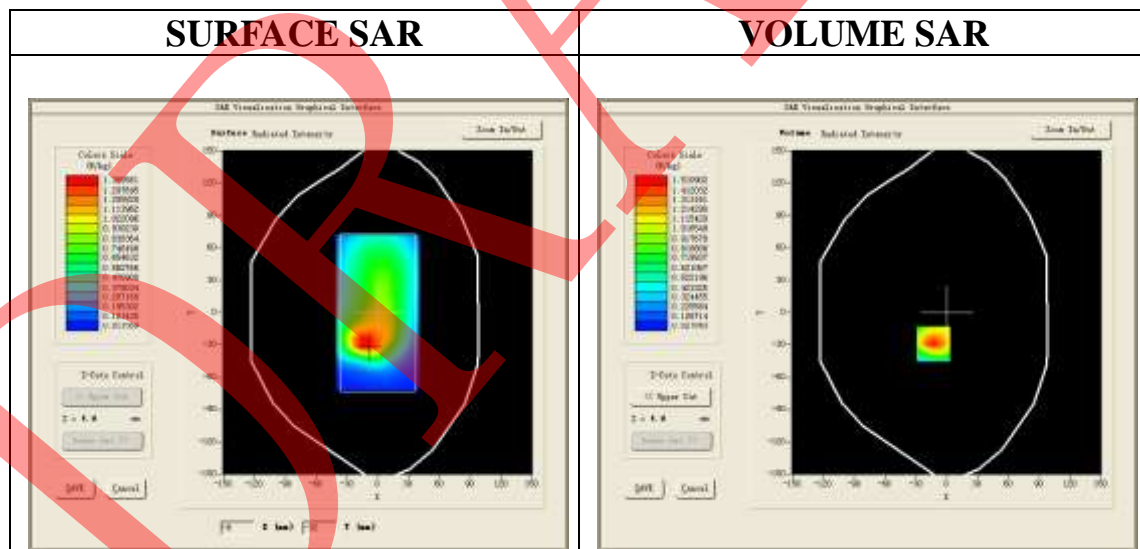
Communication System: UMTS; Communication System Band: Band VIII UTRA/FDD; Duty Cycle:1:1; Conv.F=5.39
Frequency: 897.6 MHz; Medium parameters used: $f = 900$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 41.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band VIII Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band VIII Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

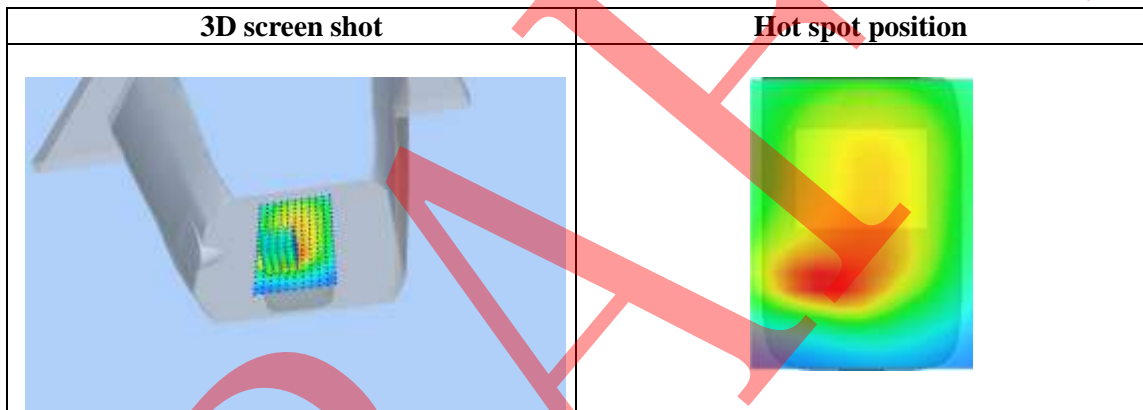
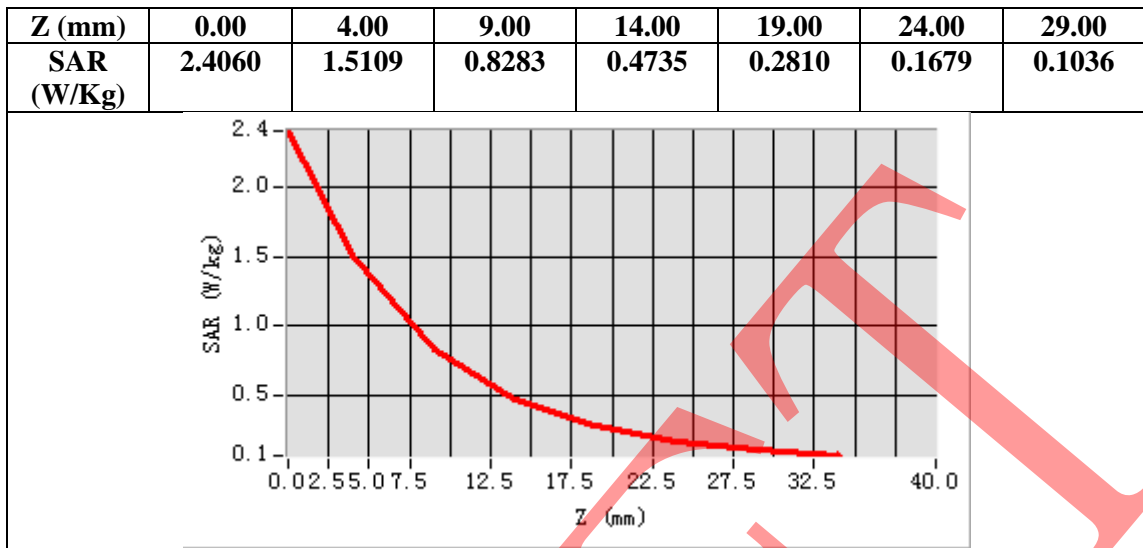
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band VIII
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-13.00, Y=-29.00

SAR Peak: 2.39 W/kg

SAR 10g (W/Kg)	0.770028
SAR 1g (W/Kg)	1.419508



WIFI MODE

Test Laboratory: AGC Lab

Date: Dec. 17,2016

802.11b Low-Touch-Left

DUT: 3G Dual-SIM Smartphone; Type: Volt S

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.19;
Frequency: 2412 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.58$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):20.7, Liquid temperature (°C): 20.1

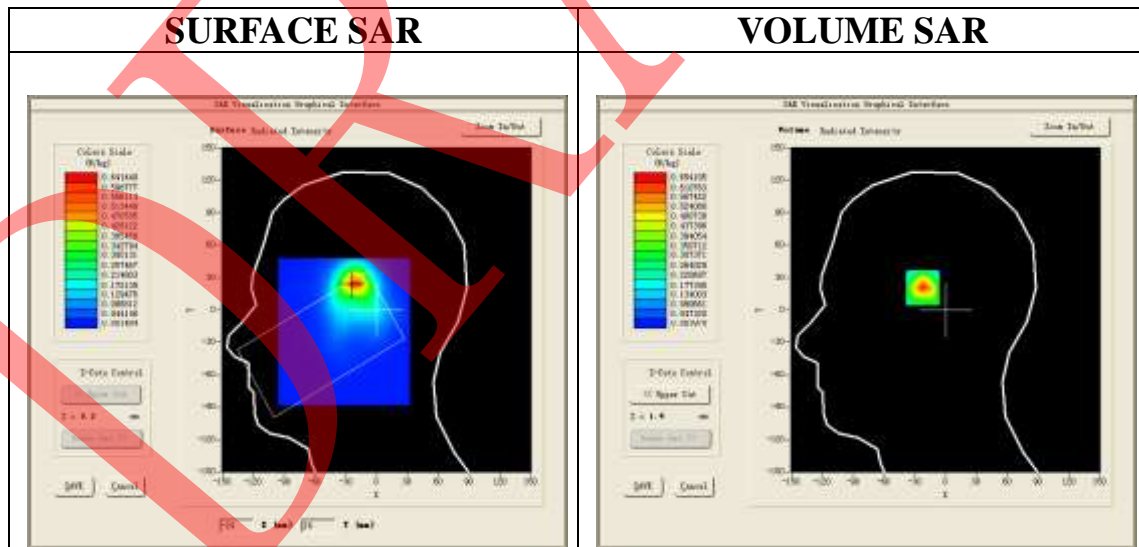
SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/802.11b Low- Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/802.11b Low- Touch-Left/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	2450MHz
Channels	Low
Signal	Crest factor: 1.0

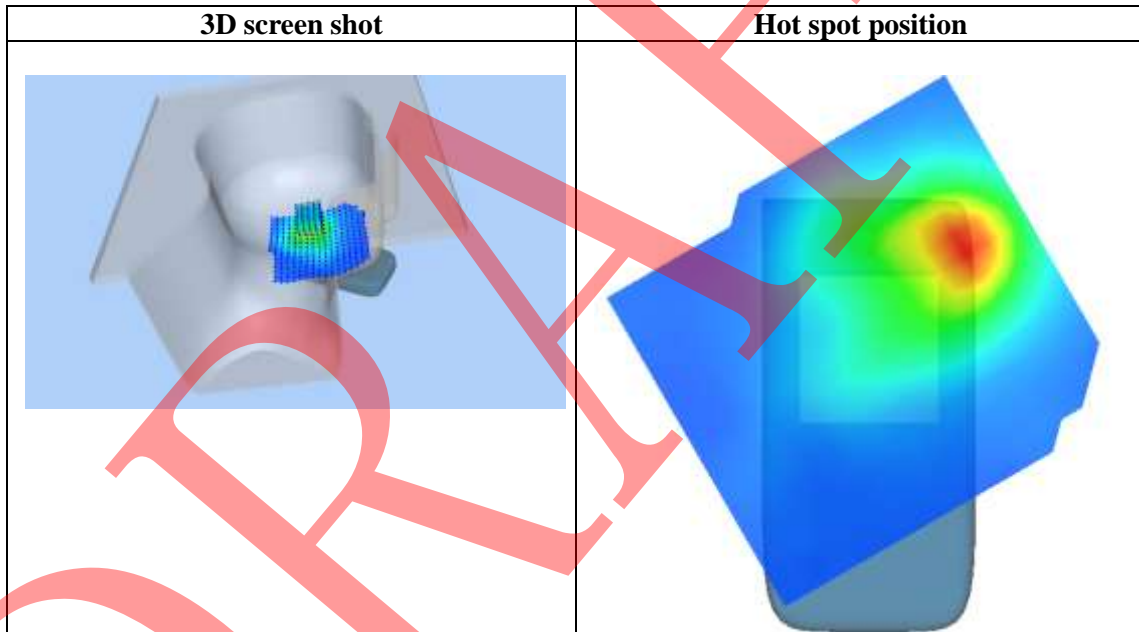
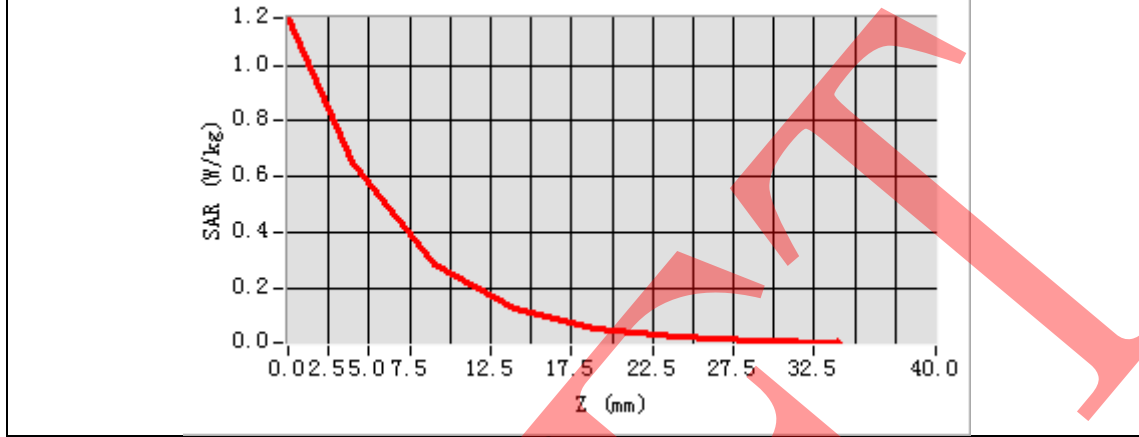


Maximum location: X=-22.00, Y=25.00

SAR Peak: 1.16 W/kg

SAR 10g (W/Kg)	0.269906
SAR 1g (W/Kg)	0.607255

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.1688	0.6541	0.2908	0.1317	0.0615	0.0305	0.0150



Test Laboratory: AGC Lab
802.11b Mid-Touch-Left
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 17,2016

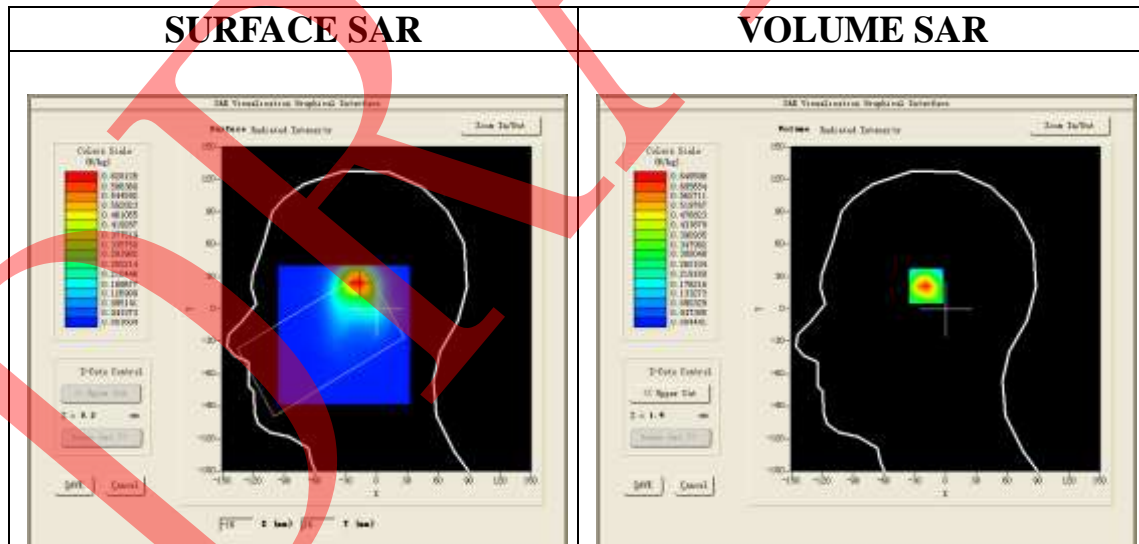
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.19;
Frequency: 2442 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.58$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):20.7, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

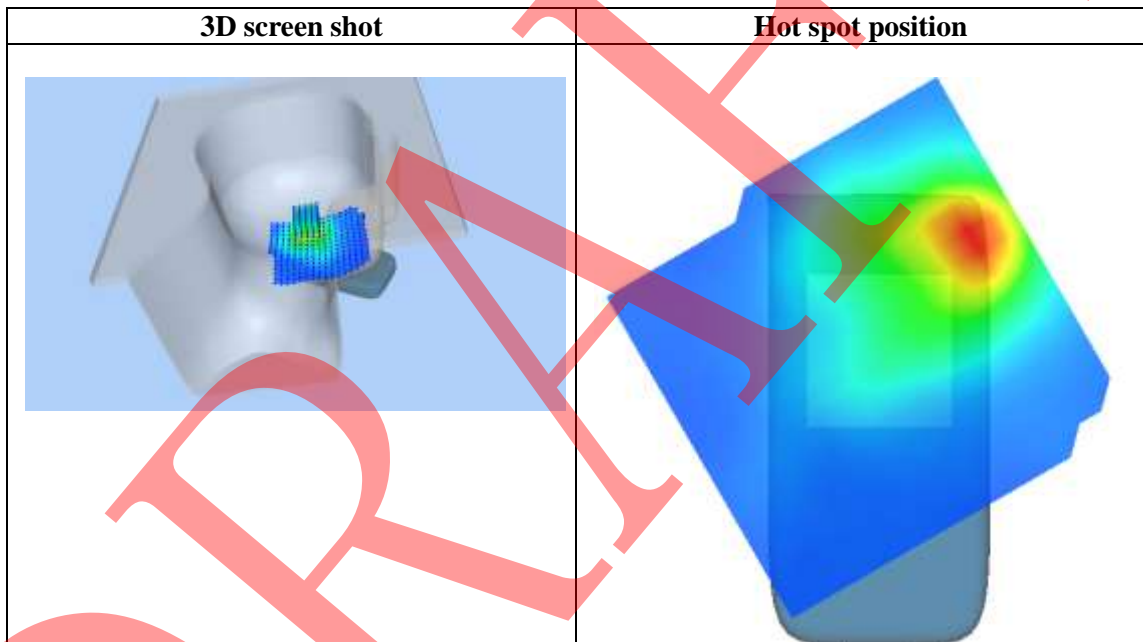
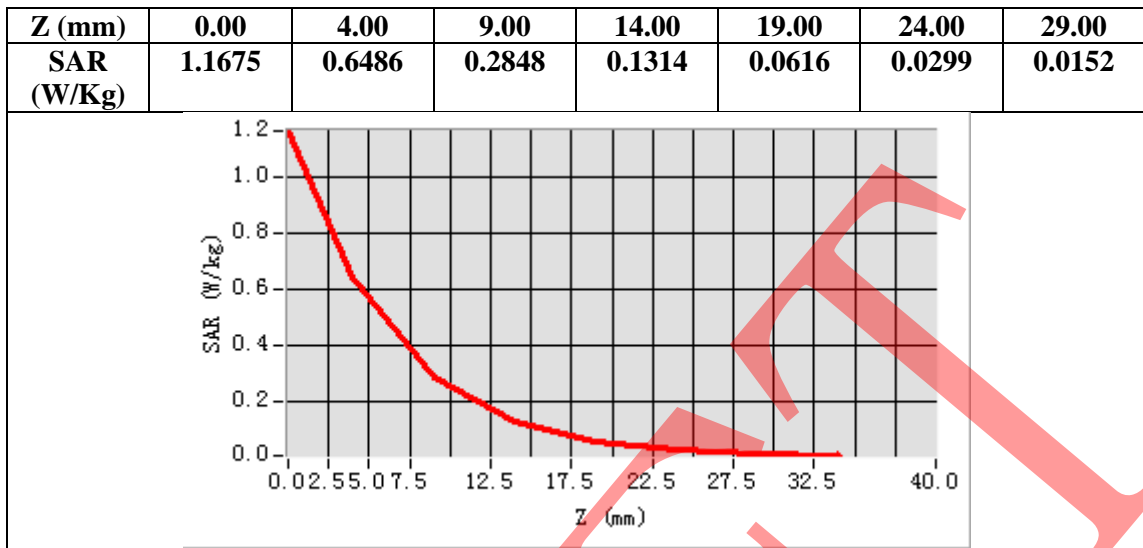
Configuration/802.11b Mid- Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Mid- Touch-Left/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0



Maximum location: X=-18.00, Y=25.00
SAR Peak: 1.16 W/kg

SAR 10g (W/Kg)	0.267118
SAR 1g (W/Kg)	0.602910



Test Laboratory: AGC Lab
802.11b High-Touch-Left
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 17,2016

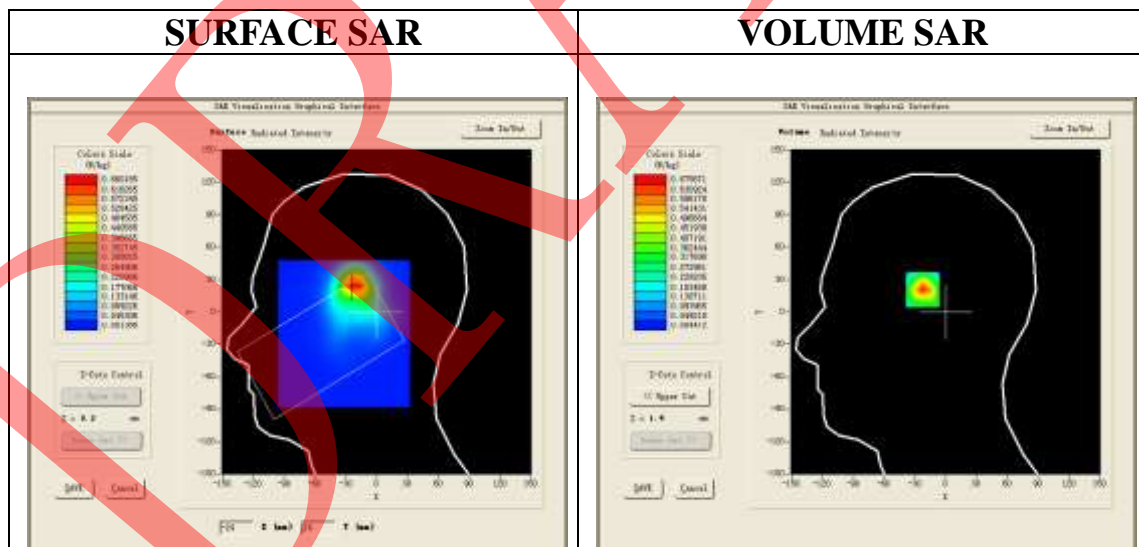
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.19;
Frequency: 2472 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.58$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):20.7, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/802.11b High- Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b High- Touch-Left/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

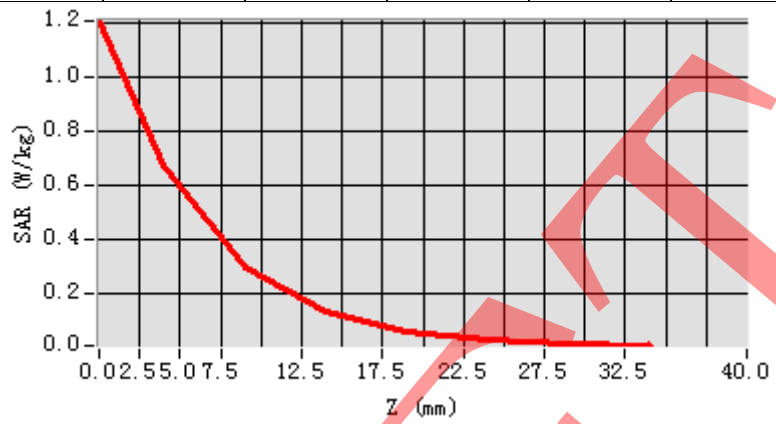
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	2450MHz
Channels	High
Signal	Crest factor: 1.0



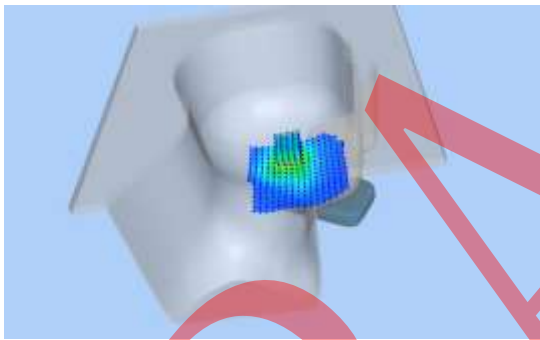
Maximum location: X=-22.00, Y=25.00
SAR Peak: 1.20 W/kg

SAR 10g (W/Kg)	0.278585
SAR 1g (W/Kg)	0.627007

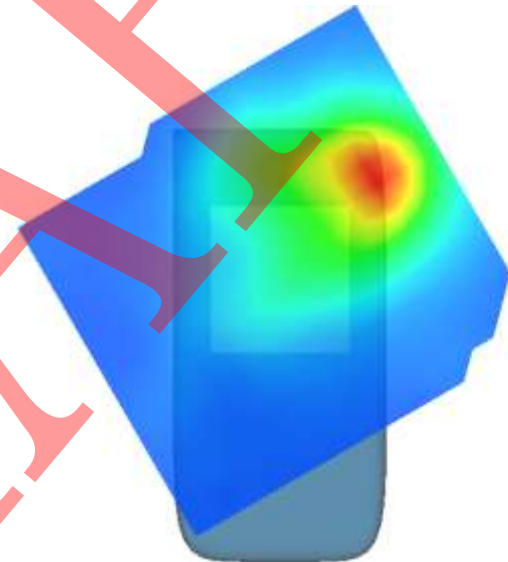
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2078	0.6757	0.2998	0.1359	0.0637	0.0312	0.0160



3D screen shot



Hot spot position



Test Laboratory: AGC Lab
802.11b Low -Tilt-Left
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 17,2016

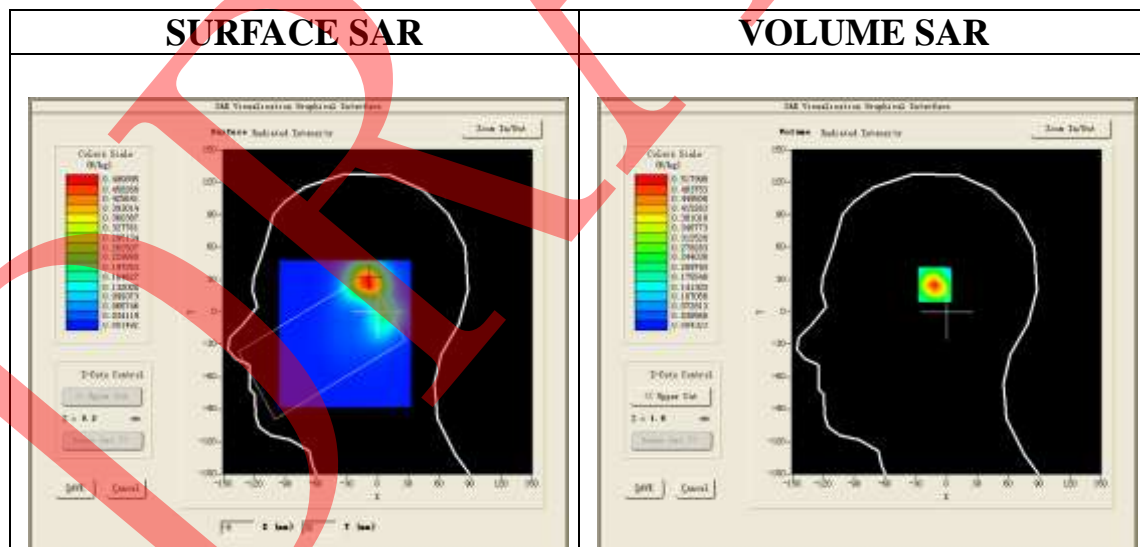
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.19;
Frequency: 2412 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.58$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):20.7, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

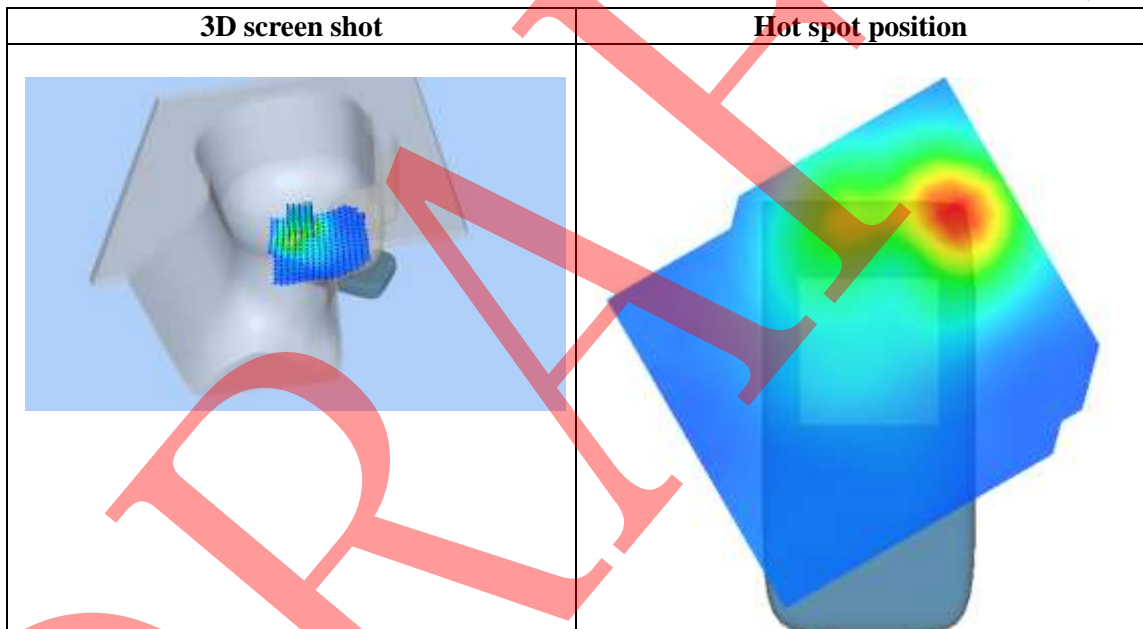
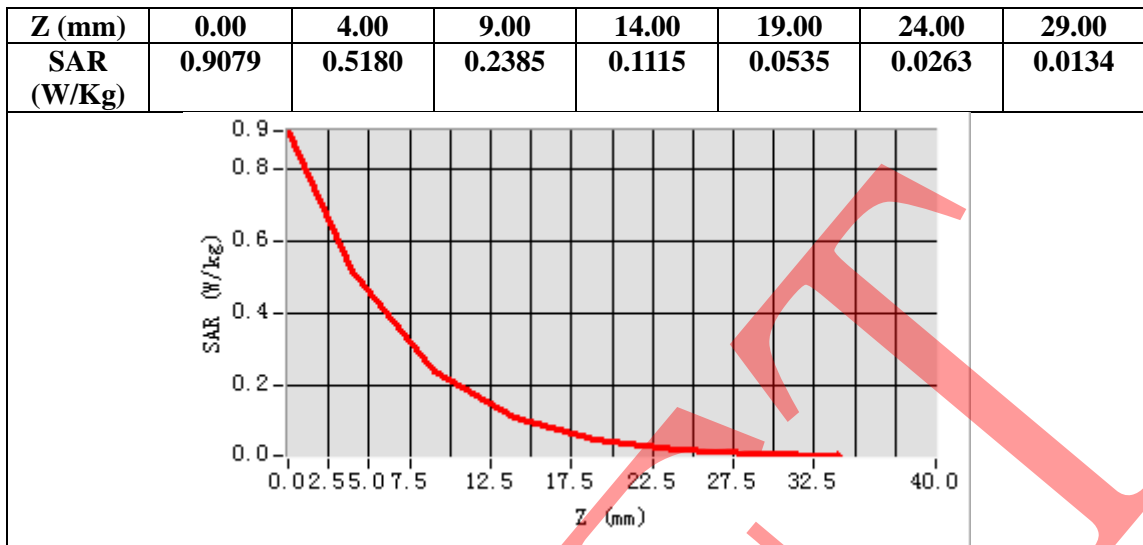
Configuration/802.11b Low- Tilt-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Low- Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm,dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	2450MHz
Channels	Low
Signal	Crest factor: 1.0



Maximum location: X=-9.00, Y=29.00
SAR Peak: 0.90 W/kg

SAR 10g (W/Kg)	0.218887
SAR 1g (W/Kg)	0.482637



Test Laboratory: AGC Lab
802.11b Low- Touch-Right
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 17,2016

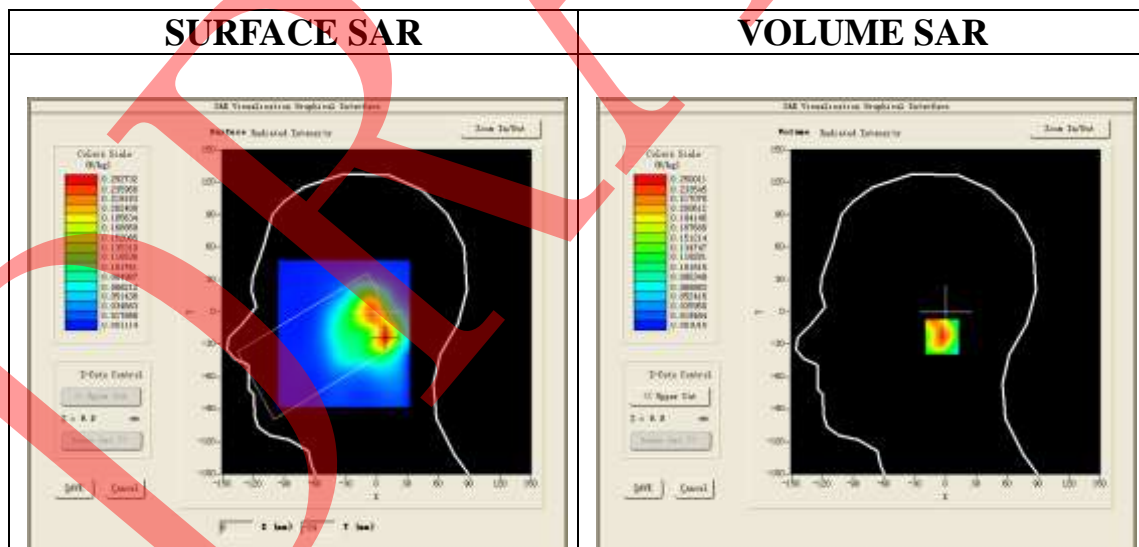
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.19;
Frequency: 2412 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.58$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C):20.7,Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

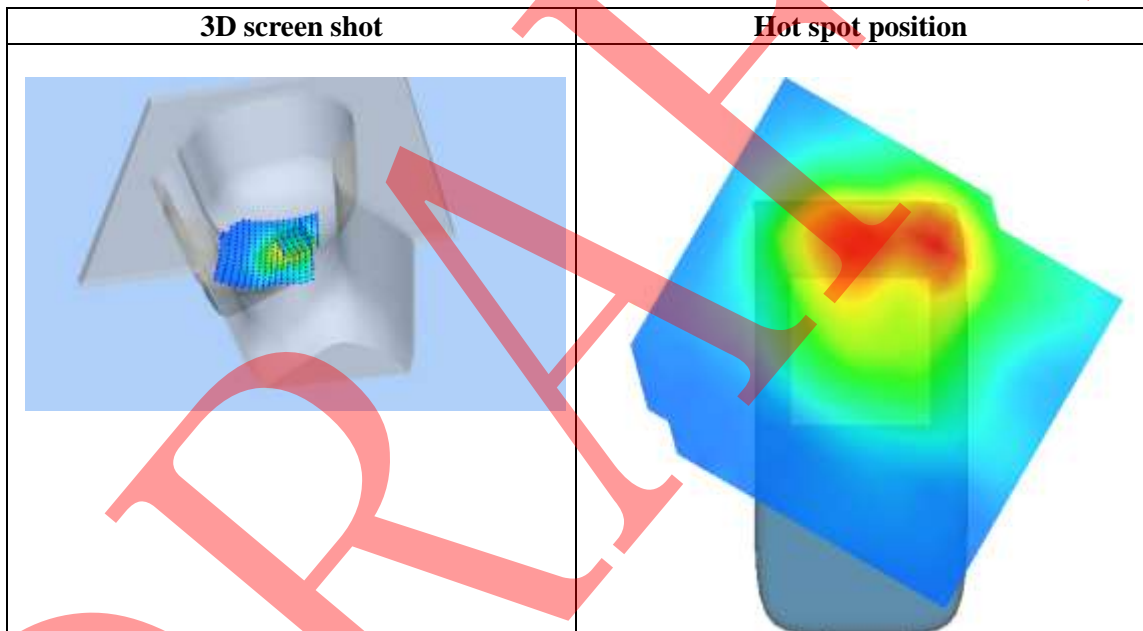
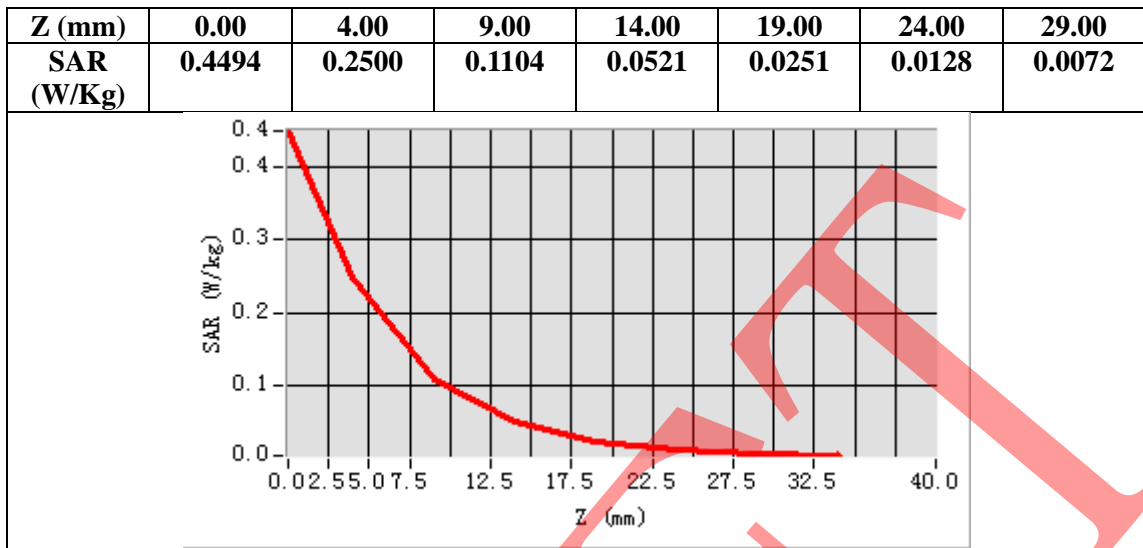
Configuration/802.11b Low- Touch-Right /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Low- Touch-Right /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	2450MHz
Channels	Low
Signal	Crest factor: 1.0



Maximum location: X=8.00, Y=-23.00
SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.117116
SAR 1g (W/Kg)	0.238371



Test Laboratory: AGC Lab
802.11b Low-Tilt-Right
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 17,2016

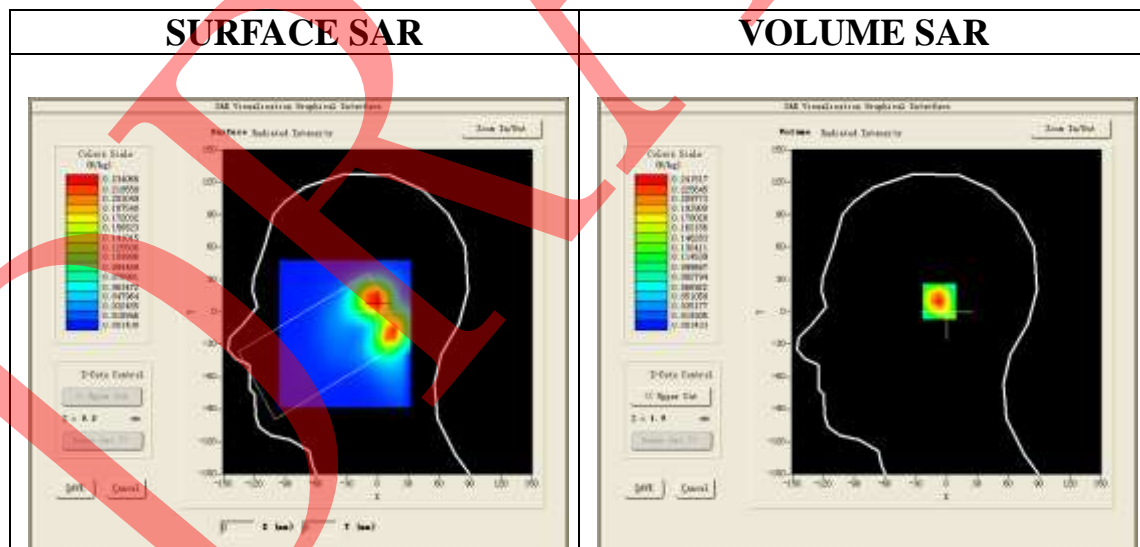
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.19;
Frequency: 2412 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.58$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C):20.7, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

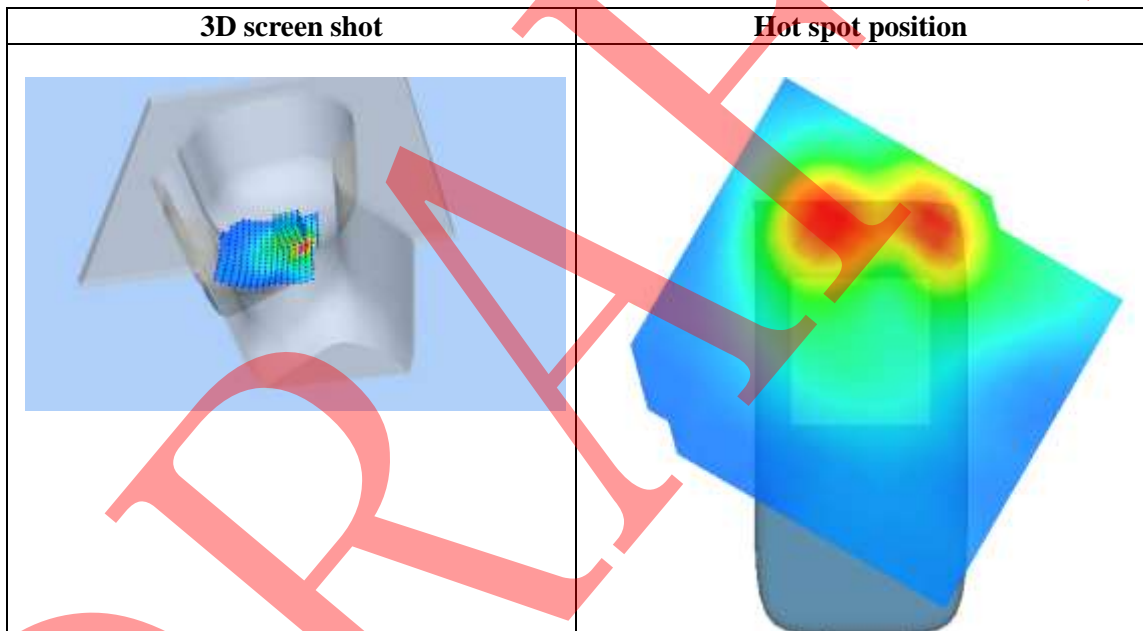
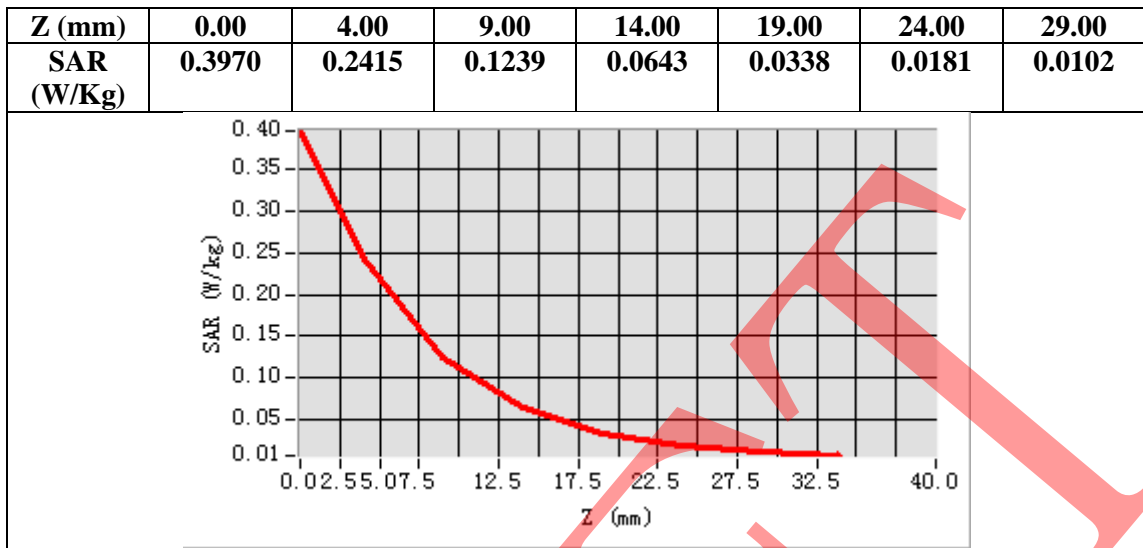
Configuration/802.11b Low- Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Low- Tilt-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Tilt
Band	2450MHz
Channels	Low
Signal	Crest factor: 1.0



Maximum location: X=-2.00, Y=10.00
SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.112361
SAR 1g (W/Kg)	0.227091



Test Laboratory: AGC Lab
802.11b Low-Body-Worn- Back (DTS)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 17,2016

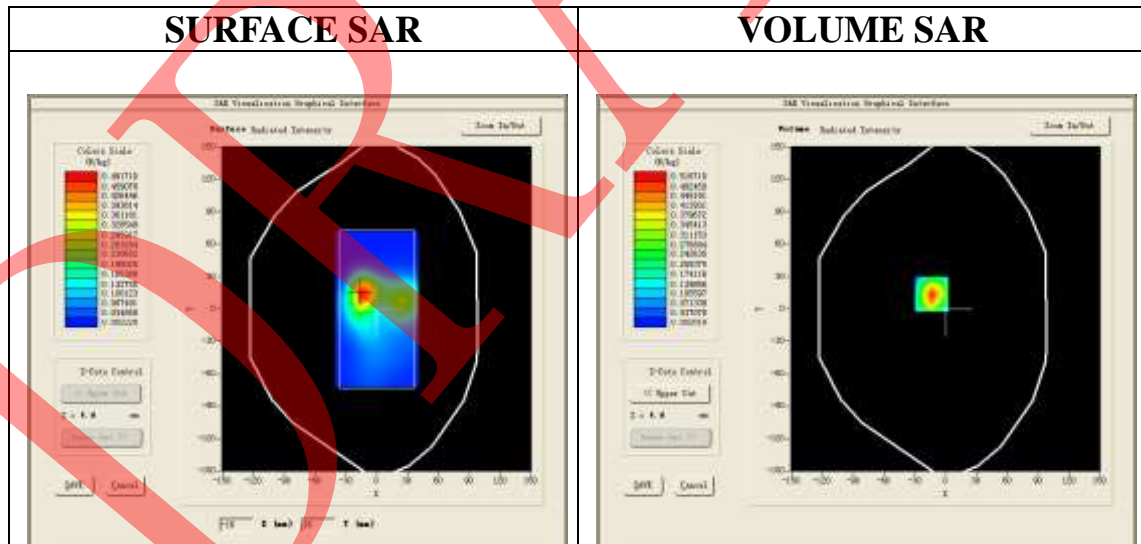
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.19;
Frequency: 2412 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.58$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.7, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

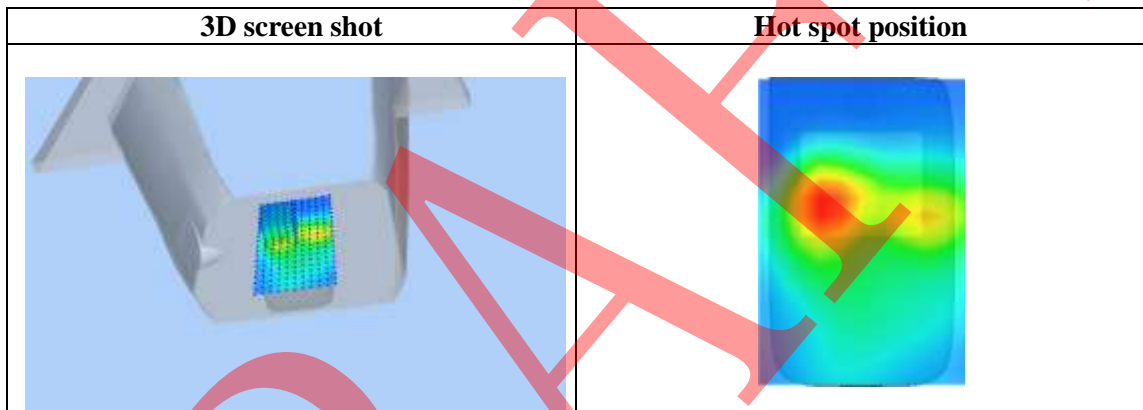
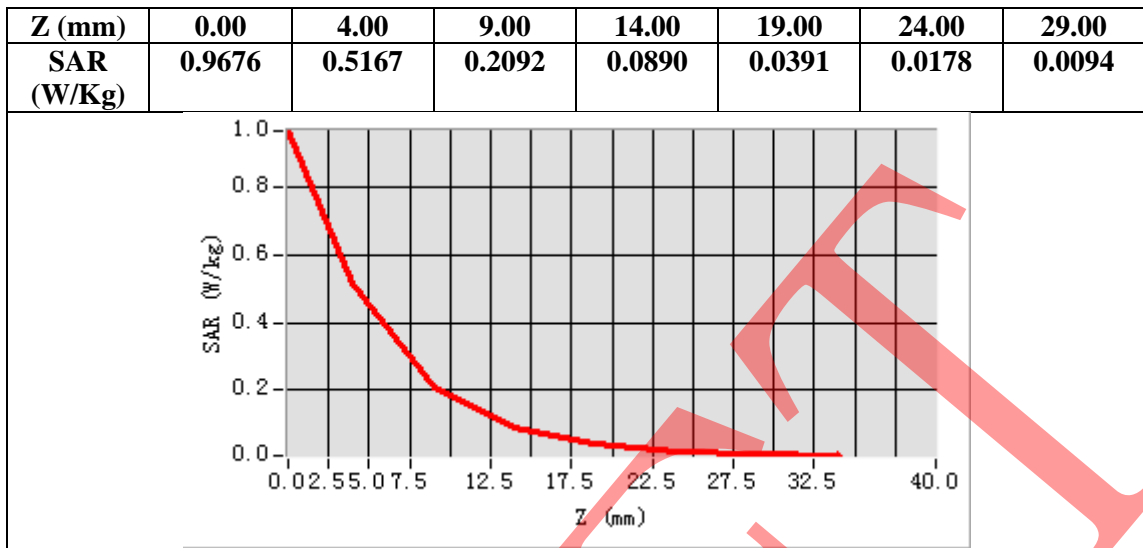
Configuration/802.11b Low- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Low- Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	2450MHz
Channels	Low
Signal	Crest factor: 1.0



Maximum location: X=-14.00, Y=14.00
SAR Peak: 0.96 W/kg

SAR 10g (W/Kg)	0.206674
SAR 1g (W/Kg)	0.484723



Test Laboratory: AGC Lab
802.11b Low-Body- Worn- Front (DTS)
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 17,2016

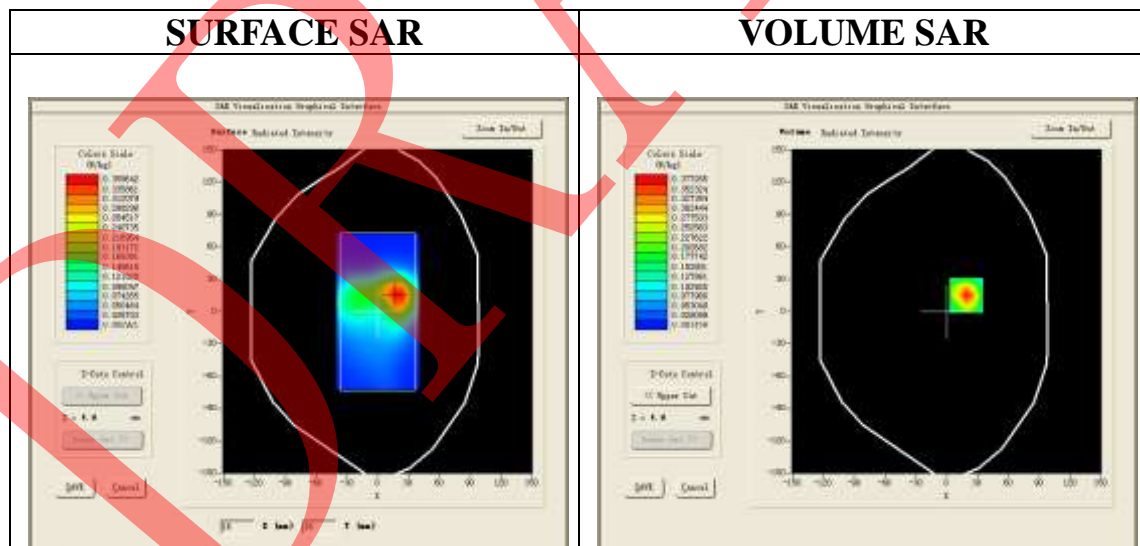
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.19;
Frequency: 2412 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.58$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.7, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

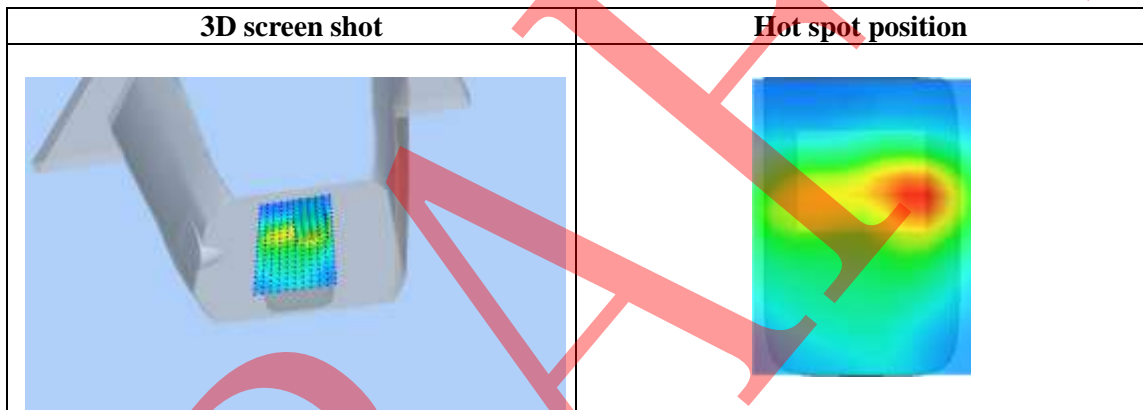
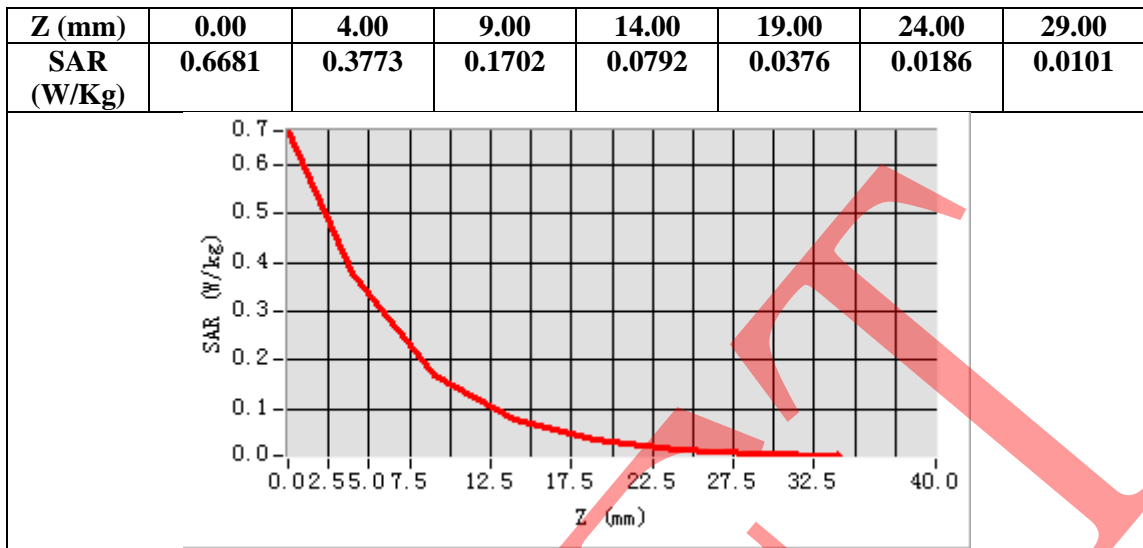
Configuration/802.11b Low- Body- Front /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Low- Body- Front /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Front
Band	2450MHz
Channels	Low
Signal	Crest factor: 1.0



Maximum location: X=19.00, Y=15.00
SAR Peak: 0.67 W/kg

SAR 10g (W/Kg)	0.163463
SAR 1g (W/Kg)	0.355786



Test Laboratory: AGC Lab
802.11b Low-Body- Worn- Back (DTS) –with earphone
DUT: 3G Dual-SIM Smartphone; Type: Volt S

Date: Dec. 17,2016

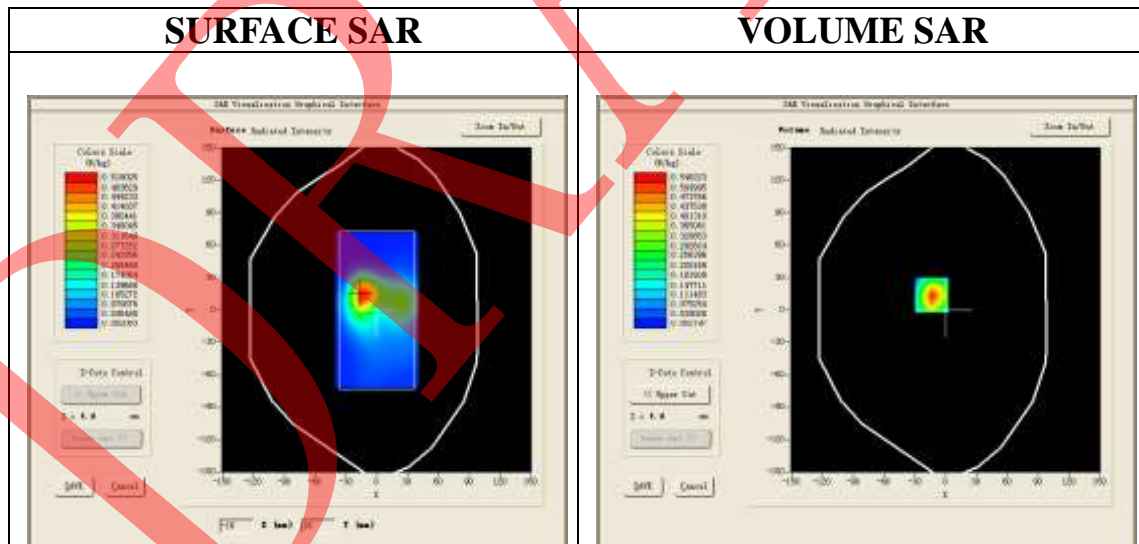
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.19;
Frequency: 2412 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 39.58$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):20.7, Liquid temperature (°C): 20.1

SATIMO Configuration:

- Probe: SSE5; Calibrated: 12/05/2016; Serial No.: SN 14/16 EP308
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/802.11b Low- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Low- Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

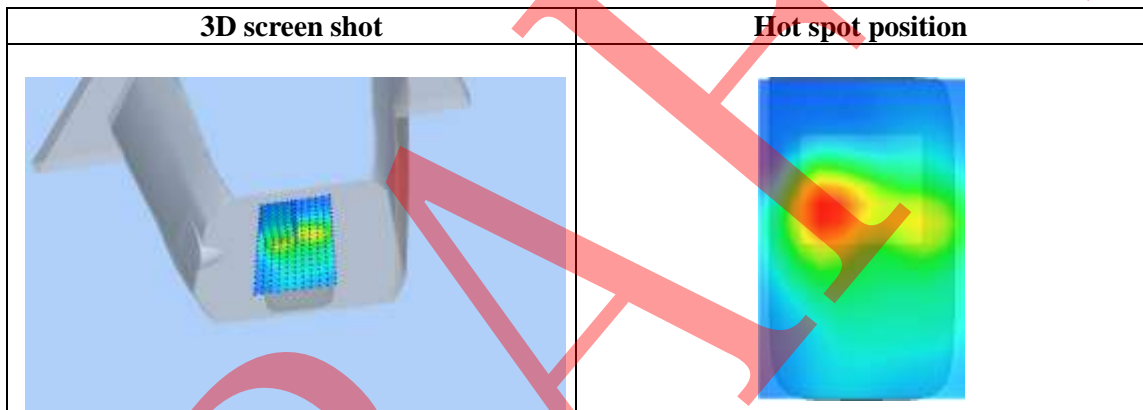
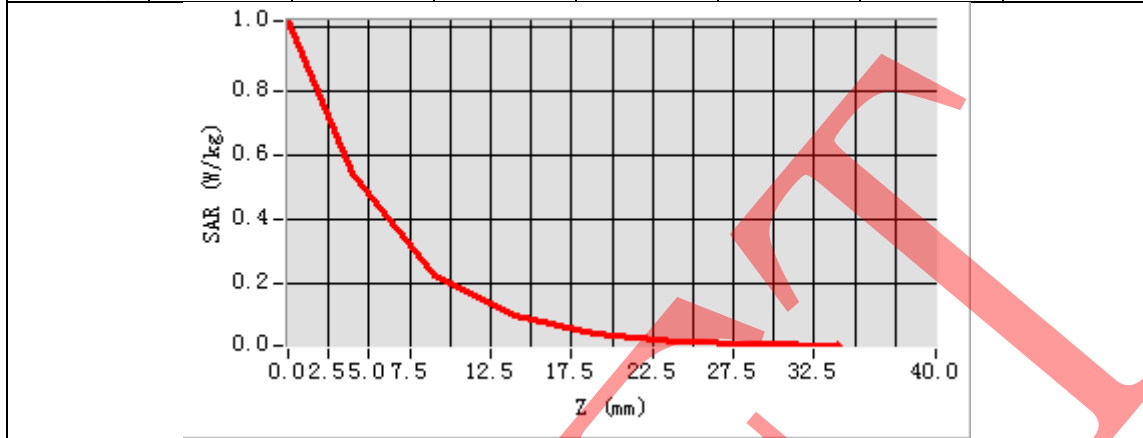
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	2450MHz
Channels	Low
Signal	Crest factor: 1.0



Maximum location: X=-14.00, Y=14.00
SAR Peak: 1.01 W/kg

SAR 10g (W/Kg)	0.222708
SAR 1g (W/Kg)	0.515684

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0194	0.5462	0.2235	0.0964	0.0432	0.0200	0.0100



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APPENDIX C. TEST SETUP PHOTOGRAPHS & EUT PHOTOGRAPHS

Refer to Attached files.

APPENDIX D. CALIBRATION DATA

Refer to Attached files.

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