SAR Test Report

Report No.: AGC00653161204FH01

2AEM6TTV-767 **FCC ID**

Original Equipment APPLICATION PURPOSE

PRODUCT DESIGNATION **Tablet**

TIGERS BRAND NAME

MODEL NAME TTV-767

CLIENT MOVEON TECHNOLOGY (HK) CO., LTD.

DATE OF ISSUE : Jan. 10,2017

IEEE Std. 1528:2013

: FCC 47CFR § 2.1093 STANDARD(S)

IEEE/ANSI C95.1:2005

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	/	Jan. 10,2017	Valid	Original Report

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	Test Report Certification
Applicant Name	MOVEON TECHNOLOGY (HK) CO., LTD.
Applicant Address	Room 3201, Building A, World Trading Plaza Block, Futian Rd., Futian Distric, Shenzhen, China
Manufacturer Name	MOVEON TECHNOLOGY LIMITED
Manufacturer Address	World Trade Plaza-A Block #3201-3202 Fuhong Road, Futian
Product Designation	Tablet
Brand Name	TIGERS
Model Name	TTV-767
Different Description	N/A
EUT Voltage	DC3.7V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47CFR § 2.1093 IEEE/ANSI C95.1:2005
Test Date	Dec. 27,2016 to Jan. 05,2017
	Attestation of Global Compliance(Shenzhen) Co., Ltd.
Performed Location	2 F, Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China
Report Template	AGCRT-US-2.5G/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:

		\ / / 5		
Frequency Band	Hig	Highest Reported 1g-SAR(W/Kg)		
	Head	Body-worn	(W/Kg)	
GSM 850	0.095	1.167		
PCS 1900	0.223	1.094		
WIFI 2.4G	0.033	0.187	1.6	
Simultaneous Reported SAR		1.354		
SAR Test Result		PASS		

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/Kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE/ANSI C95.1:2005 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 648474 D04 Handset SAR v01r03
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 941225 D06 Hotspot Mode v02r01
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02
- KDB 616217 D04 SAR for laptop and tablets v01r02

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2. GENERAL INFORMATION

2.1. EUT Description

2.1. EUT Description General Information			
Product Designation	Tablet		
est Model TTV-767			
Hardware Version	K0712B_V3.3		
Software Version	TY0712B_2G-LD-2_KK_V3.7.1_151127		
Device Category	Portable		
RF Exposure Environment	Uncontrolled		
Antenna Type	Internal		
GSM and GPRS			
Support Band	☑GSM 850 ☑PCS 1900 ☑GSM 900 ☑DCS 1800		
GPRS Type	Class B		
GPRS Class	Class 12(1Tx+4Rx, 2Tx+3Rx, 3Tx+2Rx, 4Tx+1Rx)		
TX Frequency Range	GSM 850 : 820-850MHz;; PCS 1900: 1850-1910MHz;		
RX Frequency Range	GSM 850 : 869~894MHz; PCS 1900: 1930~1990MHz		
Release Version R99			
Type of modulation	GMSK for GSM/GPRS		
Antenna Gain	3.28dBi		
Max. Average Power	GSM850: 31.94dBm ;PCS1900: 28.94dBm		
Bluetooth			
Bluetooth Version	□V2.0 □V2.1 □V2.1+EDR □V3.0 □V3.0+HS □V4.0 □V4.1		
Operation Frequency	2402~2480MHz		
Type of modulation	⊠GFSK ⊠∏/4-DQPSK ⊠8-DPSK		
Peak Power	2.883dBm		
Antenna Gain	3.28dBi		
WIFI			
WIFI Specification	☐802.11a ☐802.11b ☐802.11g ☐802.11n(20) ☐802.11n(40)		
Operation Frequency	2412~2462MHz		
Avg. Burst Power	11b:13.38dBm,11g:10.97dBm,11n(20):10.89dBm,11n(40):9.76dBm		
Antenna Gain	3.28dBi		

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EUT Description(Continue)

Accessories	•
Battery	Brand name: N/A Model No. : 357090 Voltage and Capacitance: 3.7 V & 3400mAh
Adapter	Brand name: TIGERS Model No.: TTV-767 Input: AC 100-240V, 50/60Hz, 500mA Output: DC 5V, 2A
Earphone	Brand name: N/A Model No. : N/A

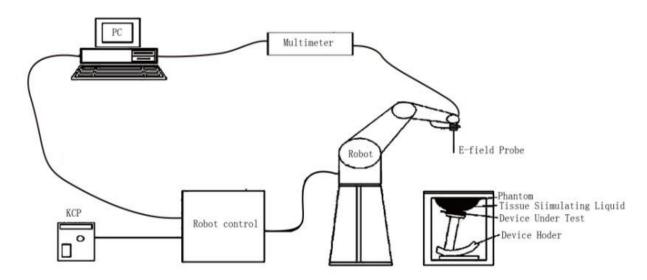
Note:1.CMU200 can measure the average power and Peak power at the same time 2.The sample used for testing is end product.

Product	Туре		
Floduct		Identical Prototype	

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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.

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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. IEEE 1528 and relevant KDB files.) The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	SSE5		
Manufacture	MVG		
Frequency	0.7GHz-3GHz Linearity:±0.05dB(700MHz-3GHz)		
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.05dB		
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

J.J. NODOL	
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	

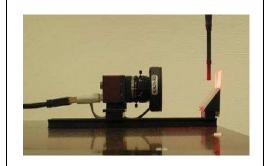
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3.4. Video Positioning System

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.

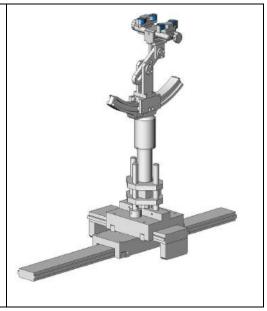


3.5. Device Holder

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.



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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.

ELLI39 Phantom

The Flat phantom is a fiberglass shell phantom with 2mm+/- 0.2 mm shell thickness. It has only one measurement area for Flat phantom



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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:

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

$$SAR = c_h \frac{dT}{dt}\Big|_{t=0}$$

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;

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

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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 os 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 IEEE Standard 1528, 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.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100MHz to 6GHz

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	≤2 GHz: ≤15 mm 2 – 3 GHz: ≤12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g abd 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.

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Zoom Scan Parameters extracted from KDB865664 d01 SAR Measurement 100MHz to 6GHz

Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
	uniform grid: Δz _{Zoom} (n)		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface	$\begin{array}{c} \Delta z_{Z00m}(1)\text{: between} \\ 1^{\text{st}} \text{ two points closest} \\ \text{to phantom surface} \\ \\ \Delta z_{Z00m}(n>1)\text{:} \\ \text{between subsequent} \\ \text{points} \end{array}$	1 st two points closest	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		≤ 1.5·Δz	Zoom(n-1)	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

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.

^{*} When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

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4.3. RF Exposure Conditions

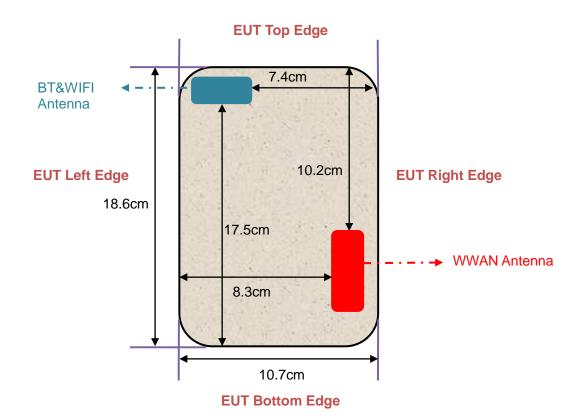
Test Configuration and setting:

The EUT is a model of GSM Portable Mobile Station (MS). It supports GSM/GPRS, BT, WIFI, and support hot spot mode.

For WWAN SAR testing, the device was controlled by using a base station emulator. Communication between the device and the emulator were established by air link. The distance between the EUT and the antenna is larger than 50cm, and the output power radiated from the emulator antenna is at least 30db smaller than the output power of EUT.

For WLAN testing, the EUT is configured with the WLAN continuous TX tool through engineering command.

Antenna Location: (front view)



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For WWAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head	Cagos/Gariaco	roquirou	
Left Touch		Yes	
Left Tilt		Yes	
Right Touch		Yes	
Right Tilt		Yes	
Body			
Back	<25mm	Yes	
Front	<25mm	Yes	
Hotspot			
Back	<25mm	Yes	
Front	<25mm	Yes	
Edge 1 (Top)	102	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 2 (Right)	8	Yes	
Edge 3 (Bottom)	28	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	83	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR

For WLAN mode:

For WLAN mode:			
Test Configurations	Antenna to	SAR	Note
	edges/surface	required	Tiolo
Head			
Left Touch		Yes	
Left Tilt		Yes	
Right Touch		Yes	
Right Tilt		Yes	
Body			
Back	<25mm	Yes	
Front	<25mm	Yes	
Hotspot			
Back	<25mm	Yes	
Front	<25mm	Yes	
Edge 1 (Top)	3	Yes	
Edge 2 (Right)	74	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 3 (Bottom)	175	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	2	Yes	

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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 4.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	Nacl	Sugar	HEC	Bactericide	DGBE	1,2 Propanediol	Triton X-100
835 Head	40.45	1.45	57	1	0.1	0.0	0.0	0.0
835 Body	54.00	1	0.0	0.0	0.0	15	0.0	30
1900 Head	54.9	0.18	0.0	0.0	0.0	44.92	0.0	0.0
1900 Body	70	1	0.0	0.0	0.0	9	0.0	20
2450 Head	71.88	0.16	0.0	0.0	0.0	7.99	0.0	19.97
2450 Body	70	1	0.0	0.0	0.0	9	0.0	20

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in IEEE 1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in IEEE 1528.

Target Frequency	he	ad	ŀ	oody
(MHz)	εr	σ (S/m)	εr	σ (S/m)
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	1.01	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73

(ϵr = relative permittivity, σ = conductivity and ρ = 1000 kg/m3)

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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.

	Tissue Stimulant Measurement for 835MHz									
	Fr.	Dielectric Par	ameters (±5%)	Tissue						
	(MHz)	εr 41.5 (39.425-43.575)	δ[s/m] 0.90(0.855-0.945)	Temp [°C]	Test time					
Head	824.2	41.88	0.87							
	835	41.56	0.89	20.9	Dec.					
	836.6 41.31		0.91	20.9	27,2016					
	848.8	41.02	41.02 0.93							
	Fr.	Dielectric Par	Tissue							
	(MHz)	εr 55.20(52.44-57-96)	δ[s/m]0.97(0.9215-1.0185)	Temp [oC]	Test time					
Body	824.2	56.61	0.92							
	835	55.72	0.93	21.1	Dec.					
	836.6	55.12	0.95	<u>∠</u> 1.1	27,2016					
	848.8	54.43	0.97							

	Tissue Stimulant Measurement for 1900MHz									
	Fr.	Dielectric Par	Tissue							
	(MHz)	εr40.00(38.00-42.00)	δ[s/m]1.40(1.33-1.47)	Temp [°C]	Test time					
Head	1850.2	41.32	1.37							
	1880	40.94	1.38	21.8	Dec.					
	1900 40.38		1.39	21.0	29,2016					
	1909.8	39.88	1.40							
	Fr.	Dielectric Par	Tissue							
	(MHz)	εr53.30(50.635-55.965)	δ[s/m]1.52(1.444-1.596)	Temp [oC]	Test time					
Body	1850.2	54.85	1.46							
	1880	54.12	1.48	21.5	Dec.					
	1900	53.74	1.49	21.5	29,2016					
	1909.8	53.33	1.50	1						

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	Tissue Stimulant Measurement for 2450MHz									
	Fr.	Dielectric Par	Tissue	To at time a						
	(MHz)	εr39.2(37.24-41.16)	δ[s/m]1.80(1.71-1.89)	Temp [°C]	Test time					
Head	2412	40.33 1.78								
	2437 39.85		1.81	21.81	Jan. 05,2017					
	2450 39.03		1.82	21.01						
	2462	38.52	1.83							
	Fr.	Dielectric Par	Tissue	_						
	(MHz)	εr52.7(50.065-55.335)	δ[s/m]1.95(1.8525-2.0475)	Temp [°C]	Test time					
Body	2412	54.12	1.91							
	2437	53.63	1.94	21.5	Jan.					
	2450	52.79	1.96	21.5	05,2017					
	2462	51.99	1.98							

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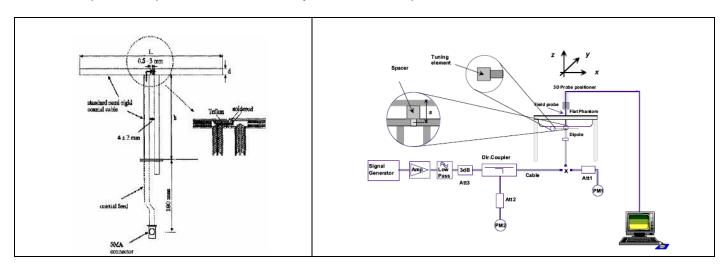
6. SAR SYSTEM CHECK PROCEDURE

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.

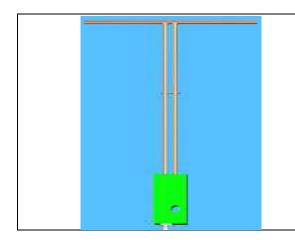
Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

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.



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6.2. SAR System Check 6.2.1. Dipoles



The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical Specifications for the dipoles.

Frequency	L (mm)	h (mm)	d (mm)
835MHz	161.0	89.8	3.6
1900MHz	68	39.5	3.6
2450MHz	51.5	30.4	3.6

6.2.2. System Check Result

System Per	System Performance Check at 835MHz&1900MHz &2450MHz for Head									
Validation K	Validation Kit: SN29/15 DIP 0G835-383&SN 29/15 DIP 1G900-389& SN 29/15DIP 2G450-393									
Frequency [MHz]	Value((± 1	ce Result 0%)	Value	ted (W/Kg)	Tissue Temp.	Test time		
835	1g 10.04	10g 6.43	1g 9.036-11.044	10g 5.787 -7.073	1g 10.371	10g 6.744	[°C] 20.9	Dec. 27,2016		
1900	41.44	21.33	37.296-45.584	19.197-23.463	42.071	19.833	21.8	Dec. 29,2016		
2450	54.53	24.30	49.077-59.983	21.87-26.730	49.167	23.198	21.81	Jan. 05,2017		
System Per	formance	Check at	t 835 MHz &1900	MHz & 2450MH	z for Bod	у				
Frequency [MHz]	Value(- 0/	(± 1	ce Result 0%)			Tested Tissue Value(W/Kg) Temp.		Temp.	Test time
[1711 12]	1g	10g	1g	10g	1g	10g	[°C]			
835	9.85	6.45	8.865-10.835	5.805-7.095	9.774	6.400	21.1	Dec. 27,2016		
1900	39.38	20.86	35.442-43.318	18.774-22.946	37.580	19.805	21.5	Dec. 29,2016		
2450	49.92	23.16	44.928-54.912	20.844-25.476	53.321	21.839	21.5	Jan. 05,2017		

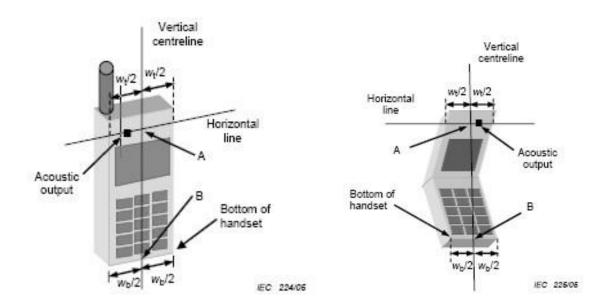
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7. EUT TEST POSITION

This EUT was tested in Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back, Body front and 4 edges.

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 wt of the handset at the level of the acoustic output, and the midpoint of the width wb 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.

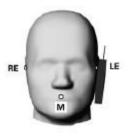


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7.2. Cheek Position

(1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center picec 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





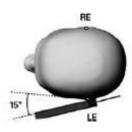


7.3. Tilt Position

- (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.



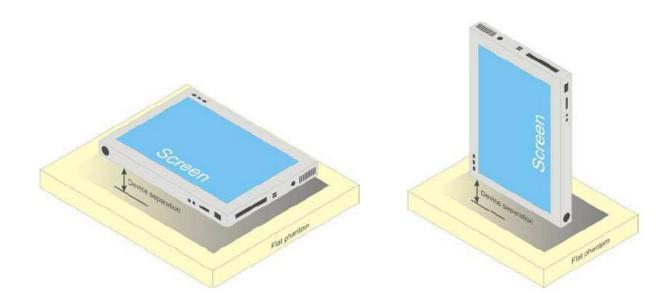




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7.4. Body Position

- (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 0mm.



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8. SAR EXPOSURE LIMITS

SAR assessments have been made in line with the requirements of IEEE-1528, and comply with ANSI/IEEE C95.1-2005 "Uncontrolled Environments" limits. These limits apply to a location which is deemed as "Uncontrolled Environment" which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

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

Type Exposure	Uncontrolled Environment Limit (W/kg)
Spatial Peak SAR (1g cube tissue for brain or body)	1.60
Spatial Average SAR (Whole body)	0.08
Spatial Peak SAR (Limbs)	4.0

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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 EP307	07/05/2016	07/04/2017
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 SID835	SN29/15 DIP 0G835-383	07/05/2016	07/04/2019
Dipole	SATIMO SID1900	SN 29/15 DIP 1G900-389	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 KDB 865664 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.

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10. MEASUREMENT UNCERTAINTY

CATIMO Un containte									
SATIMO Uncertainty-SN 14/16 EP307 Measurement uncertainty for DUT averaged over 1 gram / 10 gram.(Head)									
Uncertainty Component	Sec.	ainty for Di	Prob.	aged over Div.	1 gram / 1 Ci (1g)	O gram.(F	1g Ui	10g Ui	Vi
Oncertainty Component	36 0.	(+- %)	Dist.	Div.	Ci (ig)	(10g)	(+-%)	(+-%)	VI
Measurement System		,		l .	l .	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	. , ,		
Probe calibration	E.2.1	5.831	N	1	1	1	5.83	5.83	8
Probe Modulation	E2.5	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	1	1	0.36	0.35	8
Hemispherical Isotropy	E.2.2	0.7	R	$\sqrt{3}$	1	1	0.40	0.40	8
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	8
Linearity	E.2.4	1.2	R	$\sqrt{3}$	1	1	0.69	0.69	8
System detection limits	E.2.4	0.7	R	$\sqrt{3}$	1	1	0.40	0.40	8
Readout Electronics	E.2.6	0.02	N	□ 1	1	1	0.02	0.02	8
Response Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	8
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	8
RF Ambient Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	8
RF Ambient Reflection	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	8
Probe Positioner	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	8
Probe Positioning	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	8
Post-processing	E.5	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Test sample Related									
Device Positioning	E.4.2	3.6	N	1	1	1	3.60	3.60	8
Device Holder	E.4.1	2.9	N	1	1	1	2.90	2.90	∞
Measurement SAR Drift	E.2.9	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Power Scaling	E.6.5	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Phantom and set-up									
Phantom Uncertainty	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	8
Liquid Conductivity(Meas.)	E.3.3	5	N	1	0.78	0.71	3.90	3.55	М
Liquid Permittivity(Meas.)	E.3.3	5	N	1	0.23	0.26	1.15	1.30	М
Liquid Conductivity-temperature uncertainty	E.3.4	5	R	√3	0.78	0.71	2.25	2.05	8
Liquid Permittivity-temperature uncertainty	E.3.4	5	R	√3	0.23	0.26	0.66	0.75	8
Combined Standard Uncertainty	,		RSS				10.20	9.919	8
Expanded Uncertainty (95% Confidence interval)			k				20.40	19.838	

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	SATIMO Uncertainty-sn 14/16 EP307									
System va	System validation uncertainty for Dipole averaged over 1 gram / 10 gram.(Head)									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi	
Measurement System										
Probe calibration	E.2.1	5.831	N	1	1	1	5.83	5.83	∞	
Probe Modulation	E.2.5	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞	
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	1	1	1.44	1.44	∞	
Hemispherical Isotropy	E.2.2	0.7	R	$\sqrt{3}$	1	1	0.40	0.40	∞	
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞	
Linearity	E.2.4	1.2	R	$\sqrt{3}$	1	1	0.69	0.69	∞	
System detection limits	E.2.4	0.7	R	$\sqrt{3}$	1	1	0.40	0.40	∞	
Readout Electronics	E.2.6	0.02	N	<u></u>	1	1	0.02	0.02	∞	
Response Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞	
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞	
RF Ambient Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞	
RF Ambient Reflection	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞	
Probe Positioner	E.6.1	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞	
Probe Positioning	E.6.2	0.05	R	√3	1	1	0.03	0.03	∞	
Post-processing E.6.3 5.0 R $\sqrt{3}$ 1 1 2.89 2.89 ∞									∞	
System validation source	(dipole)	•	•	•	•		•	•		
Deviation of exp. dipole	E6.4	5	R	1	1	1	5.00	5.00	∞	
Dipole Axis to Liquid Dist.	8,E.6.6	4.7	R	√3	1	1	2.71	2.71	∞	
Input power & SAR drift	8,6.6.4	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞	
Phantom and set-up										
Phantom Uncertainty	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞	
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞	
Liquid Conductivity(Meas.)	E.3.3	5	N	1	0.78	0.71	3.90	3.55	М	
Liquid Permittivity(Meas.)	E.3.3	5	N	1	0.23	0.26	1.15	1.30	М	
Liquid Conductivity-temperature uncertainty	E.3.4	5	R	√3	0.78	0.71	2.25	2.05	∞	
Liquid Permittivity-temperature uncertainty	E.3.4	5	R	$\sqrt{3}$	0.23	0.26	0.66	0.75	∞	
Combined Standard Uncertainty			RSS				10.34	10.069	∞	
Expanded Uncertainty (95% Confidence interval)			k				20.69	20.137		

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	SATIMO Uncertainty-sn 14/16 EP307										
System (System Check uncertainty for Dipole averaged over 1 gram / 10 gram.(Head)										
Uncertainty Component	Sec.	Tol	Prob.	Div.	Ci (1g)	Ci	1g Ui	10g Ui	Vi		
Management System		(+- %)	Dist.			(10g)	(+-%)	(+-%)			
Measurement System		T	T _	_					I		
Modulation response	E.2.5	3.0	R	√3	0	0	0.00	0.00	∞		
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞		
System detection limits	E.2.4	0.7	R	$\sqrt{3}$	0	0	0.00	0.00	∞		
Readout Electronics	E.2.6	0.02	N	□ 1	0	0	0.00	0.00	∞		
Response Time	E.2.7	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞		
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞		
RF Ambient Noise	E.6.1	3.0	R	√3	0	0	0.00	0.00	∞		
RF Ambient Reflection	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞		
Probe Positioner	E.6.1	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞		
Probe Positioning	E.6.2	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞		
Post-processing	E.6.3	5.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞		
Field source									•		
Deviation of exp. dipole	E6.4	5	R	1	1	1	5.00	5.00	∞		
Dipole Axis to Liquid Dist.	8,E.6.6	4.7	R	√3	1	1	2.71	2.71	∞		
Input power & SAR drift	8,6.6.4	1	R	√3	1	1	0.58	0.58	∞		
Phantom and set-up									•		
Phantom Uncertainty	E.3.1	0.05	R	√3	1	1	0.03	0.03	∞		
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞		
Liquid Conductivity(Meas.)	E.3.3	5	N	1	0.78	0.71	3.90	3.55	М		
Liquid Permittivity(Meas.)	E.3.3	5	N	1	0.23	0.26	1.15	1.30	М		
Liquid Conductivity-temperature uncertainty	E.3.4	5	R	√3	0.78	0.71	2.25	2.05	∞		
Liquid Permittivity-temperature uncertainty	E.3.4	5	R	√3	0.23	0.26	0.66	0.75	∞		
Combined Standard Uncertainty			RSS				7.076	6.667	∞		
Expanded Uncertainty (95% Confidence interval)			k				14.152	13.334			

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11. CONDUCTED POWER MEASUREMENT GSM BAND

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1	>	, , ,	,	,
	824.2	31.94	-9	22.94
GSM 850	836.6	31.81	-9	22.81
	848.8	31.52	-9	22.52
GPRS 850	824.2	31.41	-9	22.41
(1 Slot)	836.6	31.32	-9	22.32
(1 3101)	848.8	31.09	-9	22.09
CDDC 050	824.2	28.92	-6	22.92
GPRS 850 (2 Slot)	836.6	28.81	-6	22.81
(2 3101)	848.8	28.02	-6	22.02
0000000	824.2	26.81	-4.26	22.55
GPRS 850 (3 Slot)	836.6	26.64	-4.26	22.38
(3 3101)	848.8	26.98	-4.26	22.72
	824.2	25.74	-3	22.74
GPRS 850 (4 Slot)	836.6	25.71	-3	22.71
(4 5101)	848.8	25.53	-3	22.53
Maximum Power <2	2>		!	1
	824.2	31.48	-9	22.48
GSM 850	836.6	31.52	-9	22.52
	848.8	31.44	-9	22.44
0000 050	824.2	31.39	-9	22.39
GPRS 850 (1 Slot)	836.6	31.35	-9	22.35
(1 3101)	848.8	31.33	-9	22.33
0000000	824.2	28.80	-6	22.80
GPRS 850 (2 Slot)	836.6	28.79	-6	22.79
(Z 310t)	848.8	28.63	-6	22.63
0000 050	824.2	26.53	-4.26	22.27
GPRS 850 (3 Slot)	836.6	26.49	-4.26	22.23
(3 3101)	848.8	26.43	-4.26	22.17
0000	824.2	25.59	-3	22.59
GPRS 850	836.6	25.56	-3	22.56
(4 Slot)	848.8	25.41	-3	22.41

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GSM BAND CONTINUE

Mode Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1	>			•
	1850.2	28.48	-9	19.48
PCS1900	1880	28.85	-9	19.85
	1909.8	28.94	-9	19.94
GPRS1900	1850.2	28.12	-9	19.12
(1 Slot)	1880	28.21	-9	19.21
(1 0101)	1909.8	28.23	-9	19.23
GPRS1900	1850.2	25.67	-6	19.67
(2 Slot)	1880	25.39	-6	19.39
(2 000)	1909.8	25.45	-6	19.45
CDDC4000	1850.2	23.62	-4.26	19.36
GPRS1900 (3 Slot)	1880	23.86	-4.26	19.6
(3 3101)	1909.8	23.19	-4.26	18.93
00004000	1850.2	22.75	-3	19.75
GPRS1900 (4 Slot)	1880	22.64	-3	19.64
(4 3101)	1909.8	1880 28.85 -9 1909.8 28.94 -9 1850.2 28.12 -9 1880 28.21 -9 1909.8 28.23 -9 1850.2 25.67 -6 1880 25.39 -6 1909.8 25.45 -6 1850.2 23.62 -4.26 1880 23.86 -4.26 1909.8 23.19 -4.26 1850.2 22.75 -3 1880 22.64 -3 1909.8 22.81 -3 1850.2 28.32 -9 1880 28.31 -9 1909.8 28.44 -9 1850.2 28.03 -9 1880 28.15 -9 1909.8 28.19 -9 1850.2 25.43 -6 1880 25.37 -6 1850.2 23.53 -4.26 1850.2 23.53 -4.26 1850.2 23.53 -4.26 1850.2	-3	19.81
Maximum Power <2	>			
	1850.2	28.32	-9	19.32
PCS1900	1880	28.31	-9	19.31
	1909.8	28.44	-9	19.44
ODD04000	1850.2	28.03	-9	19.03
GPRS1900 (1 Slot)	1880	28.15	-9	19.15
(1 3101)	1909.8	28.19	-9	19.19
ODD04000	1850.2	25.43	-6	19.43
GPRS1900 (2 Slot)	1880	25.39	-6	19.39
(2 300)	1909.8	25.37	-6	19.37
00004000	1850.2	23.53	-4.26	19.27
GPRS1900 (3 Slot)	1880	23.49	-4.26	19.23
(3 3101)	1909.8	23.41	-4.26	19.15
00004005	1850.2	22.61	-3	19.61
GPRS1900	1880	22.62	-3	19.62
(4 Slot)	1909.8	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

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WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
		01	2412	13.38
802.11b	1	06	2437	13.27
		11	2462	13.11
		01	2412	10.97
802.11g	6	06	2437	10.81
		11	2462	10.67
		01	2412	10.89
802.11n(20)	6.5	06	2437	10.75
		11	2462	10.34
		03	2422	9.67
802.11n(40)	13.5	06	2437	9.54
		09	2452	9.76

Bluetooth_V3.0

Modulation	Channel	Frequency(MHz)	Avg. Burst Power (dBm)
	0	2402	2.455
GFSK	39	2441	2.883
	78	2480	2.743
	0	2402	2.225
π /4-DQPSK	39	2441	2.308
	78	2480	2.043
	0	2402	2.506
8-DPSK	39	2441	2.699
	78	2480	2.520

Bluetooth_V4.0

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
	0	2402	-4.000
GFSK	19	2440	-4.465
	39	2480	-4.983

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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 IEEE 1528-2013, Body-worn SAR was performed with the device 0mm from the phantom, and 4 Edges SAR was performed with the device 0mm from the phantom.

12.1.2. Operation Mode

- 1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
- 2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/Kg, testing for repeated SAR measurement is required, that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
 - (1) When the original highest measured SAR is ≥0.8W/Kg, repeat that measurement once.
 - (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥1.45 W/Kg.
 - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/Kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
- 3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
- 4. Per KDB 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤1.2W/Kg, SAR testing with a headset connected is not required.
- 5. Per KDB 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤1.2W/kg.
- 6. Per KDB 941225 D06 V02r01, When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.
- 7. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:

 Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mw)/ maximum measurement output power(mw)]
- 8. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result.
- 9. The portion of the device which area scan did not scan has been off the phantom.

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12.1.3. Test Result

SAR MEASUR	SAR MEASUREMENT										
Depth of Liquid	(cm):>15			Relative	Humidity	(%): 51.9	%): 51.9				
Product: Tablet											
Test Mode: GSI	M850 with GMSI	K modu	lation								
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)		
SIM 1 Card											
Left Cheek	voice	190	836.6	-0.13	0.017	32.00	31.81	0.018	1.6		
Left Tilt	voice	190	836.6	0.16	0.011	32.00	31.81	0.011	1.6		
Right Cheek	voice	190	836.6	-0.26	0.026	32.00	31.81	0.027	1.6		
Right Tilt	voice	190	836.6	-0.14	0.014	32.00	31.81	0.015	1.6		
Body back	voice	128	824.2	0.23	0.871	32.00	31.94	0.883	1.6		
Body back	voice	190	836.6	-0.21	0.832	32.00	31.81	0.869	1.6		
Body back	voice	251	848.8	0.19	0.855	32.00	31.52	0.955	1.6		
Body front	voice	190	836.6	-1.23	0.511	32.00	31.81	0.534	1.6		
Left Cheek	GPRS-2 slot	190	836.6	-0.03	0.078	28.9	28.81	0.080	1.6		
Left Tilt	GPRS-2 slot	190	836.6	0.06	0.045	28.9	28.81	0.046	1.6		
Right Cheek	GPRS-2 slot	190	836.6	-0.15	0.093	28.9	28.81	0.095	1.6		
Right Tilt	GPRS-2 slot	190	836.6	1.36	0.050	28.9	28.81	0.051	1.6		
Body back	GPRS-2 slot	128	824.2	-2.31	0.957	28.9	28.92	0.953	1.6		
Body back	GPRS-2 slot	190	836.6	0.13	0.946	28.9	28.81	0.966	1.6		
Body back	GPRS-2 slot	251	848.8	-0.29	0.953	28.9	28.02	1.167	1.6		
Body front	GPRS-2 slot	190	836.6	0.21	0.518	28.9	28.81	0.529	1.6		
Edge 2(Right)	GPRS-2 slot	190	836.6	-0.22	0.546	28.9	28.81	0.557	1.6		
SIM 2 Card											
Body back	GPRS-2 slot	128	824.2	0.11	0.923	28.9	28.80	0.944	1.6		

Note:

[•] When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

[•]The test separation for body back and body front is 0mm of all above table.
•The test separation for 4 Edges is 0mm of all above table.

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SAR MEASUR	EMENT								
Depth of Liquid	(cm):>15			Relative	Humidity	/ (%): 52.6			
Product: Tablet									
Test Mode: PC	S1900 with GM	SK mod	dulation						
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
SIM 1 Card									
Left Cheek	voice	661	1880.0	-0.16	0.066	29.00	28.85	0.068	1.6
Left Tilt	voice	661	1880.0	0.26	0.072	29.00	28.85	0.075	1.6
Right Cheek	voice	661	1880.0	-0.35	0.159	29.00	28.85	0.165	1.6
Right Tilt	voice	661	1880.0	-0.34	0.053	29.00	28.85	0.055	1.6
Body back	voice	661	1880.0	0.31	0.569	29.00	28.85	0.589	1.6
Body front	voice	661	1880.0	-0.22	0.253	29.00	28.85	0.262	1.6
Left Cheek	GPRS-4 slot	661	1880.0	0.13	0.186	22.9	22.64	0.197	1.6
Left Tilt	GPRS-4 slot	661	1880.0	-1.05	0.118	22.9	22.64	0.125	1.6
Right Cheek	GPRS-4 slot	661	1880.0	-2.03	0.210	22.9	22.64	0.223	1.6
Right Tilt	GPRS-4 slot	661	1880.0	0.24	0.097	22.9	22.64	0.103	1.6
Body back	GPRS-4 slot	512	1850.2	0.31	1.036	22.9	22.75	1.072	1.6
Body back	GPRS-4 slot	661	1880.0	-0.01	1.030	22.9	22.64	1.094	1.6
Body back	GPRS-4 slot	810	1909.8	-0.08	1.007	22.9	22.81	1.028	1.6
Body front	GPRS-4 slot	661	1880.0	0.07	0.581	22.9	22.64	0.617	1.6
Edge 2(Right)	GPRS-4 slot	661	1880.0	-0.19	0.505	22.9	22.64	0.536	1.6
SIM 2 Card									
Body back	GPRS-4 slot	512	1850.2	0.04	1.023	22.9	22.61	1.094	1.6

Note:

[•] When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

[•]The test separation for body back and body front is 0mm of all above table.

[•]The test separation for 4 Edges is 0mm of all above table.

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OAK MEAGOKEMENT											
Depth of Liquid (cm):>15			Relative	Humidity (%): 52.6					
Product: Tablet											
Test Mode:802.11b											
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)		
Left Cheek	DTS	6	2437	0.05	0.024	13.5	13.27	0.025	1.6		
Left Tilt	DTS	6	2437	-0.02	0.026	13.5	13.27	0.027	1.6		
Right Cheek	DTS	6	2437	0.04	0.031	13.5	13.27	0.033	1.6		
Right Tilt	DTS	6	2437	-0.14	0.028	13.5	13.27	0.030	1.6		
Body back	DTS	6	2437	-0.24	0.177	13.5	13.27	0.187	1.6		
Body front	DTS	6	2437	0.19	0.047	13.5	13.27	0.050	1.6		
Edge 1 (Top)	DTS	6	2437	-0.18	0.003	13.5	13.27	0.003	1.6		
Edge 4(Left)	DTS	6	2437	1.22	0.032	13.5	13.27	0.034	1.6		

Note:

SAR MEASUREMENT

- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above "DTS" means data transmitters.
- •The test separation for body back and body front is 0mm of all above table.
- •The test separation for 4 Edges is 0mm of all above table.

Repeated S	Repeated SAR										
Product: Tal	Product: Tablet										
Test Mode:	Test Mode: GSM850& PCS1900 with GMSK modulation										
Position	Position Mode Ch. Fr. (MHz) Power Drift (<±5%) (M/kg) Power (1g) (W/kg) Power (×±5%) (W/kg) Power (×±5%) Twice SAR (1g) (1g) (×±5%) (W/kg)								Limit (W/kg)		
Body back	GPRS-2 slot	128	824.2	0.15	0.874	-	-	-	-	1.6	
Body back	GPRS-2 slot	512	1850.2	0.22	1.010	ı	-	-	-	1.6	

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Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset				
NO		Head	Body-worn	Hotspot		
1	GSM(voice)+WLAN 2.4GHz (data)	Yes	Yes	-		
2	GSM(voice)+Bluetooth(data)	-	Yes	-		
3	GSM (Data) + Bluetooth(data)	-	Yes			
4	GSM (Data) + WLAN 2.4GHz (data)	Yes	Yes	Yes		

NOTE:

- 1. WLAN and BT share the same antenna, and cannot transmit simultaneously.
- 2. Simultaneous with every transmitter must be the same test position.
- 3. KDB 447498 D01, BT SAR is excluded as below table.
- 4. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:

For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR³⁰, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation³¹
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

- 5. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- 6. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
 - (1) Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
 - (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
 - (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
 - (4)When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det

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

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

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7. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by (SAR1 + SAR2)1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Estimated SAR		Max Power inc Toler	luding Tune-up ance	Separation Distance (mm)	Estimated SAR (W/kg)	
		dBm	mW	Distance (min)		
	Head	3	1.995	0	0.083	
ВТ	Do all c	2	1.995	0	0.083	
	Body	3	1.995	0	0.083	

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Sum of the SAR for GSM 850 &Wi-Fi & BT:

RF Exposure	Test	Simultaneo	us Transmissio	Σ1-g SAR	SPLSR		
Conditions	Position	GSM 850	WI-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)	
	Left Touch	0.018	0.025		0.043	No	
Head	Left Tilt	0.011	0.027		0.038	No	
(voice)	Right Touch	0.027	0.033		0.060	No	
	Right Tilt	0.015	0.030		0.045	No	
	Poor	0.955	0.187		1.142	No	
Pody worn	Rear	0.955		0.083	1.038	No	
Body-worn	Front	0.534	0.050		0.584	No	
		0.534		0.083	0.617	No	
	Left Touch	0.080	0.025		0.105	No	
Head	Left Tilt	0.046	0.027		0.073	No	
(VoIP)	Right Touch	0.095	0.033		0.128	No	
	Right Tilt	0.051	0.030		0.081	No	
	Rear	1.167	0.187		1.354	No	
Hotonot	Front	0.529	0.050		0.579	No	
Hotspot	Rear	1.167		0.083	1.250	No	
	Front	0.529		0.083	0.612	No	

Note:

[·]According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.

[·]SPLSR mean is "The SAR to Peak Location Separation Ratio "

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Sum of the SAR for GSM 1900 &Wi-Fi & BT:

RF Exposure	Test	Simultaneo	ous Transmissio	Σ1-g SAR	SPLSR	
Conditions	Position	PCS 1900	WI-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)
	Left Touch	0.068	0.025		0.093	No
Head	Left Tilt	0.075	0.027		0.102	No
(voice)	Right Touch	0.165	0.033		0.198	No
	Right Tilt	0.055	0.030		0.085	No
	Rear	0.589	0.187		0.776	No
Pody worn		0.589		0.083	0.672	No
Body-worn	Front	0.262	0.050		0.312	No
		0.262		0.083	0.345	No
	Left Touch	0.197	0.025		0.222	No
Head	Left Tilt	0.125	0.027		0.152	No
(VoIP)	Right Touch	0.223	0.033		0.256	No
	Right Tilt	0.103	0.030		0.133	No
	Rear	1.094	0.187		1.281	No
Hotopot	Front	0.617	0.050		0.667	No
Hotspot	Rear	1.094		0.083	1.177	No
	Front	0.617		0.083	0.700	No

Note:

⁻According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/Kg, SPLSR assessment is not required.

SPLSR mean is "The SAR to Peak Location Separation Ratio "

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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Date: Dec. 27,2016

System Check Head 835 MHz

DUT: Dipole 835 MHz Type: SID 835

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=5.67 Frequency: 835 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.89$ mho/m; $\epsilon r = 41.56$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):21.8, Liquid temperature (°C): 20.9

SATIMO Configuration

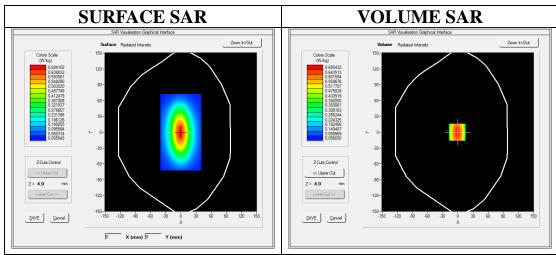
• Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm

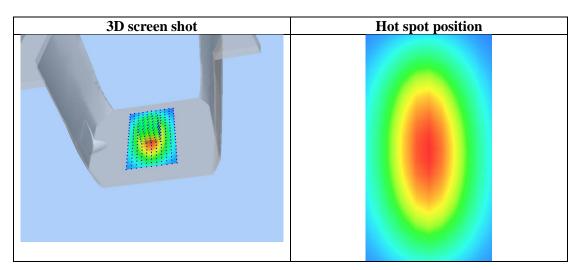


Maximum location: X=-1.00, Y=0.00 SAR Peak: 0.91 W/kg

SAR 10g (W/Kg)	0.425538		
SAR 1g (W/Kg)	0.654385		

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9462	0.6861	0.4607	0.3169	0.2202	0.1558	0.1107
(0.9- 0.8- 0.6- 0.6- 0.4- 0.2- 0.1- 0.0	2.5 5.0 7.5 10		20.0 25.0 Z (mm)	30.0 35	.0 40.0	



Date: Dec. 27,2016

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Test Laboratory: AGC Lab System Check Body 835 MHz

DUT: Dipole 835 MHz Type: SID 835

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=5.89 Frequency: 835 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.93$ mho/m; $\epsilon r = 55.72$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):21.8, Liquid temperature (°C): 21.1

SATIMO Configuration

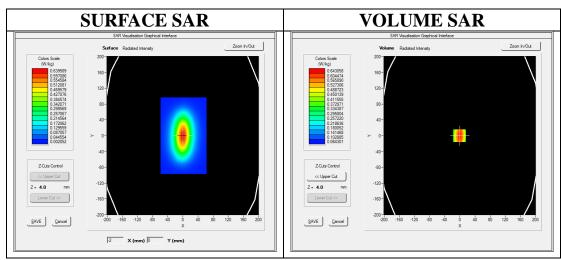
Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/System Check 835MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check 835MHz Body/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

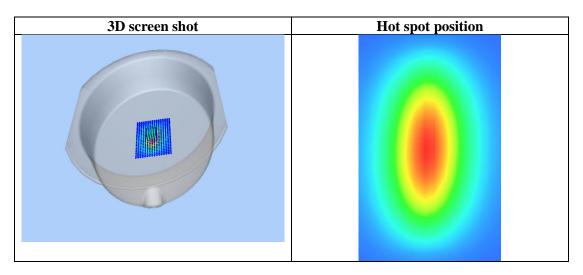


Maximum location: X=-1.00, Y=0.00 SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.403842		
SAR 1g (W/Kg)	0.616711		

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.8793	0.6431	0.4376	0.3058	0.2163	0.1560	0.1137
(W/Kg)							
	0.9-				1 1 1 1		
	0.8-	+	$\overline{}$	+++	++-		
	0.7-	\mathbf{A}					
	© 0.6- 0.5-						
	¥ 0.4-	 	$\overline{}$	+++	 		
	0.3-	+++		+++	+++		
	0.2-						
	0.2						
	0.1-						
	0.0	2.5 5.0 7.5 10		20.0 25.0	30.0 35	.0 40.0	
				Z (mm)			



Date: Dec. 29,2016

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Test Laboratory: AGC Lab System Check Head 1900MHz

DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=5.14 Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.39$ mho/m; $\epsilon r = 40.38$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):22.5, Liquid temperature (°C): 21.8

SATIMO Configuration:

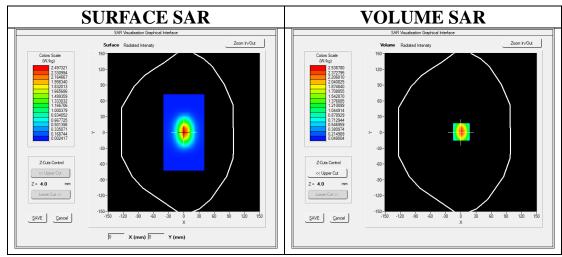
Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

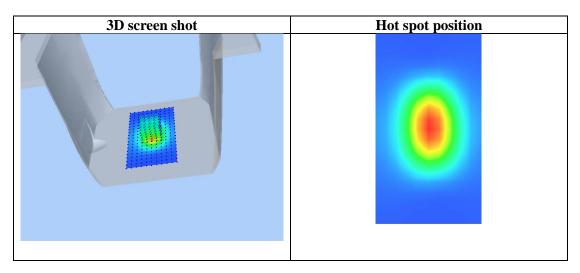


Maximum location: X=1.00, Y=1.00 SAR Peak: 3.89 W/kg

SAR 10g (W/Kg)	1.249638
SAR 1g (W/Kg)	2.371125

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	3.8947	2.5393	1.4608	0.8691	0.5145	0.3088	0.1869
(W/Kg)							
	3.9-						
	3.5-	 		+++	++++		
	3.0-	\longrightarrow		+++			
	© 2.5- ≥ 2.0-						
	2.0-						
	K 1.5-	 		+++			
	1.0-			+++			
	0.5-			\downarrow			
	0.1-				+		
	0.0	2.5 5.0 7.5 10	0.0 15.0	20.0 25.0	30.0 35	.0 40.0	
				Z (mm)			



Date: Dec. 29,2016

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Test Laboratory: AGC Lab System Check Body 1900MHz

DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=5.34 Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.49$ mho/m; $\epsilon r = 53.74$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=10dBm

Ambient temperature (°C):22.5, Liquid temperature (°C): 21.5

SATIMO Configuration:

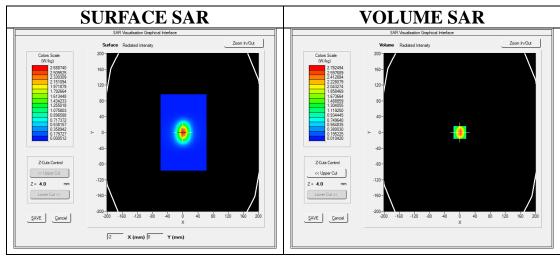
Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1900MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check 1900MHz Body/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

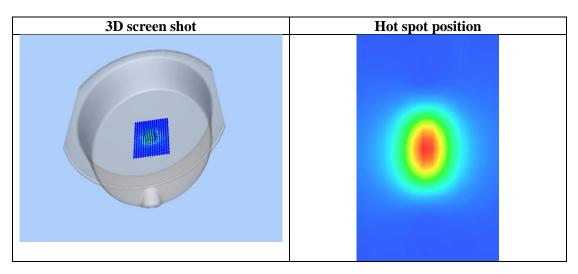


Maximum location: X=0.00, Y=0.00 SAR Peak: 5.05 W/kg

SAR 10g (W/Kg)	1.251394		
SAR 1g (W/Kg)	2.654516		

Report No.: AGC00653161204FH01 Page 48 of 81

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.1106	2.7825	1.1715	0.5119	0.2262	0.1015	0.0464
	5.11 - 4.00 3.00 2.00 1.00 0.02 -	2.5 5.0 7.51		20.0 25.0 Z (mm)	30.0 35	0.0 40.0	



Date: Jan. 05,2017

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Test Laboratory: AGC Lab System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=5.07 Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.82$ mho/m; $\epsilon r = 39.03$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):22.3, Liquid temperature (°C): 21.81

SATIMO Configuration

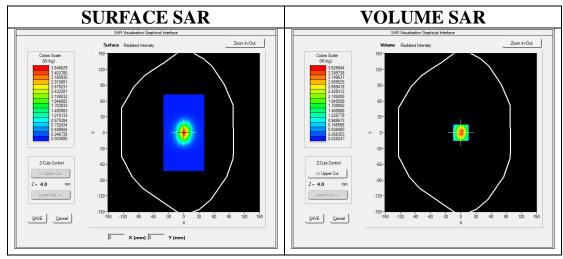
Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

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

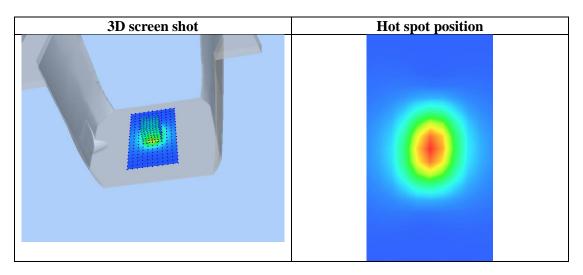


Maximum location: X=0.00, Y=0.00 SAR Peak: 5.90 W/kg

SAR 10g (W/Kg)	1.463712	
SAR 1g (W/Kg)	3.102247	

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	5.9537	3.6298	1.8706	0.9669	0.5114	0.2719	0.1476
(W/Kg)						_	
	5.95-						
	F 00	\setminus					
	5.00-						
	G 4.00-	\longrightarrow	++++	\perp			
	€ 4.00 3.00	-1					
	≥ 3.00-	+	++++	+++	+++		
	S 2.00-						
	2.00						
	1.00-	+++		+++	+++-		
				\rightarrow	\perp \mid \mid		
	0.08-	2.5 5.0 7.51	0.0 15.0	20.0 25.0	30.0 35	.0 40.0	
	U.U	1 2.5 5.0 7.5 1			30.0 33	.0 40.0	
				Z (mm)			



Date: Jan. 05,2017

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Test Laboratory: AGC Lab System Check Body 2450 MHz

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; $\sigma = 1.96$ mho/m; $\epsilon r = 52.79$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):22.3, Liquid temperature (°C): 21.5

SATIMO Configuration

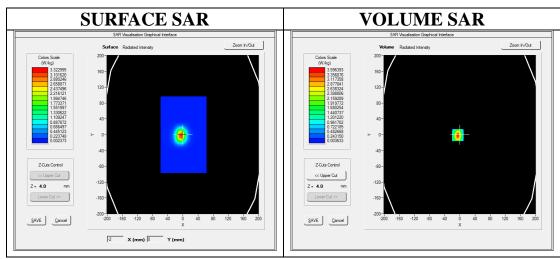
Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

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

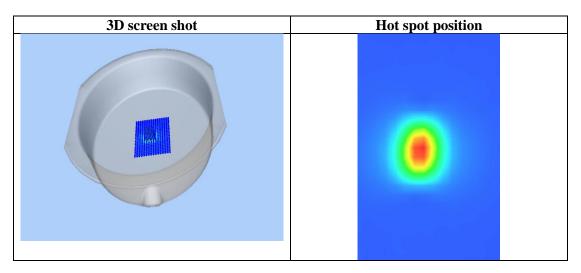


Maximum location: X=-5.00, Y=-1.00 SAR Peak: 7.34 W/kg

SAR 10g (W/Kg)	1.377959	
SAR 1g (W/Kg)	3.364346	

Report No.: AGC00653161204FH01 Page 52 of 81

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	7.5022	3.5964	1.1202	0.3597	0.1204	0.0412	0.0160
(W/Kg)							
	7.50-						
	6.00-	$\overline{}$					
	⊕ 5.00−	+	++++				
	(5.00 8 4.00	\rightarrow	\Box				
	E 200-						
	₩ 3.00						
	2.00-						
	1.00-	- 	+				
	0.01 -						
	0.0	2.5 5.0 7.51		20.0 25.0	30.0 35	.0 40.0	
				Z (mm)			



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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab Date: Dec. 27,2016

GSM 850 Mid- Touch-Right <SIM 1> DUT: Tablet; Type: TTV-767

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=5.67; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.91$ mho/m; ϵ r = 41.31; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature (°C): 21.8, Liquid temperature (°C):20.9

SATIMO Configuration:

• Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

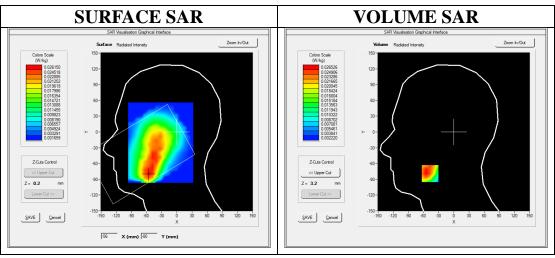
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/GSM 850 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GSM 850 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,Complete	
Phantom	Right head	
Device Position	Cheek	
Band	GSM 850	
Channels	Middle	
Signal	TDMA (Crest factor: 8.0)	

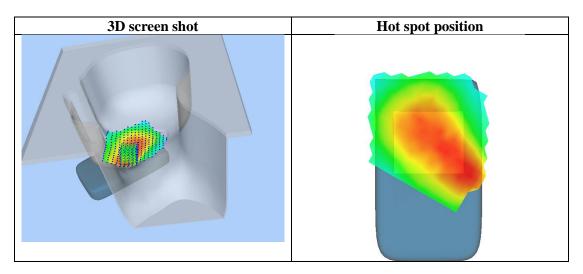


Maximum location: X=-47.00, Y=-79.00 SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.017510	
SAR 1g (W/Kg)	0.026175	

Report No.: AGC00653161204FH01 Page 54 of 81

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0457	0.0265	0.0142	0.0130	0.0081	0.0082	0.0052
(W/Kg)							
	0.046-	\ 	+++				
	0.040 -	+++					
	0.035 -	+++					
	፟ 0.030−	\longrightarrow					
	≥ 0.025-	+					
	K 0.020 -	++					
	0.015-		++-				
	0.010 -						
	0.005 -		100 150				
	0	.0 2.5 5.0 7.5	10.0 15.0	20.0 25.0 Z (mm)	30.0 35	5.0 40.0	



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Test Laboratory: AGC Lab Date: Dec. 27,2016

GSM 850 Low- Body- Back (MS)<SIM 1>

DUT: Tablet; Type: TTV-767

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=5.89; Frequency: 824.2 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.92$ mho/m; ϵ r = 56.61; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.8, Liquid temperature ($^{\circ}$ C): 21.1

SATIMO Configuration:

Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

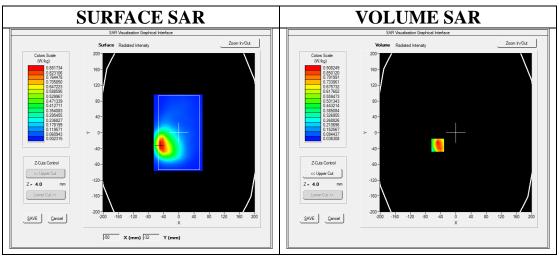
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/GSM 850 Low-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm **Configuration/GSM 850 Low-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
Phantom	Validation plane			
Device Position	Body Back			
Band	GSM 850			
Channels	Low			
Signal	TDMA (Crest factor: 8.0)			

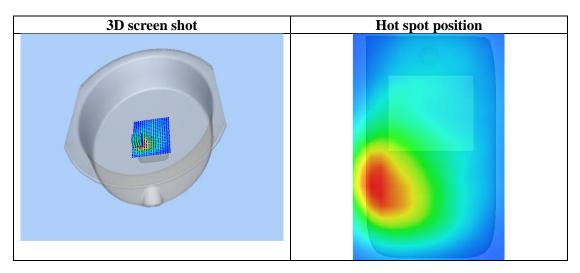


Maximum location: X=-48.00, Y=-32.00 SAR Peak: 1.42 W/kg

SAR 10g (W/Kg)	0.528025	
SAR 1g (W/Kg)	0.871224	

Report No.: AGC00653161204FH01 Page 56 of 81

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	1.4388	0.9082	0.5087	0.3340	0.2033	0.1505	0.0988
(W/Kg)							
	1.4-						
	1.2-	\					
	<u>_</u> 1.0-	\longrightarrow	$\overline{}$	+++	+++		
	₹'	$\mathbb{I} \setminus \mathbb{I}$					
	≥ 0.8-						
	SS 0.6-	++	+++	+++	+		
	0.4-						
	0.2-	+++		+++			
	0.1-	05 50 75 4	15.0	20.0	20.0	400	
	0.0 2.5 5.0 7.5 10.0 15.0 20.0 25.0 30.0 35.0 40.0						
				Z (mm)			



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Test Laboratory: AGC Lab Date: Dec. 27,2016

GPRS 850 Mid- Touch-Right (2up) DUT: Tablet; Type: TTV-767

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=5.67 Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.91$ mho/m; $\epsilon r = 41.31$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.8, Liquid temperature ($^{\circ}$ C): 20.9

SATIMO Configuration:

Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

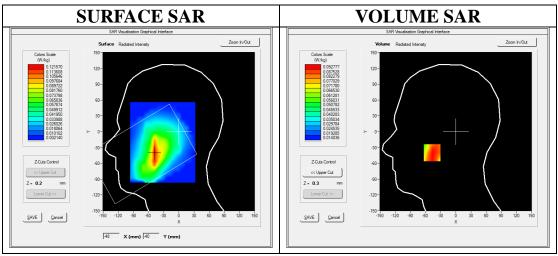
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/GPRS 850 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GPRS 850 Mid-Touch-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,Complete			
Phantom	Right head			
Device Position	Cheek			
Band	GSM 850			
Channels	Middle			
Signal	TDMA (Crest factor: 4.0)			

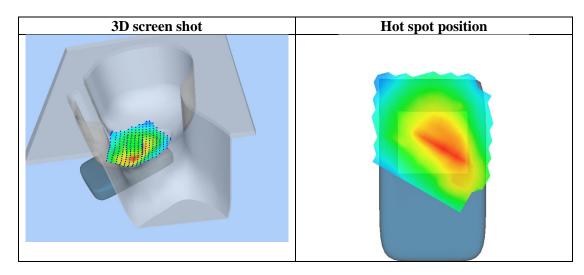


Maximum location: X=-47.00, Y=-40.00 SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.070618	
SAR 1g (W/Kg)	0.093270	

Report No.: AGC00653161204FH01 Page 58 of 81

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0496	0.0926	0.0928	0.0803	0.0461	0.0366	0.0297
(W/Kg)							
	0.09-						
	0.00		$N \sqcup$				
	0.08-	7					
	© 0.07 0.06	/	++				
	₹ 0.06-	++	$+++\lambda$				
	SAR 0.05-						
	0.04-		++++				
	0.03-		++++				
	0.02-	1	150	20.0 25.0	20.0	0 400	
	0.0	2.5 5.0 7.51		20.0 25.0	30.0 35	.0 40.0	
				Z (mm)			



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Test Laboratory: AGC Lab Date: Dec. 27,2016

GPRS 850 Low- Body- Back (2up) DUT: Tablet; Type: TTV-767

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=5.89; Frequency: 824.2 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.92$ mho/m; ϵ r = 56.61; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.8, Liquid temperature ($^{\circ}$ C): 21.1

SATIMO Configuration:

Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

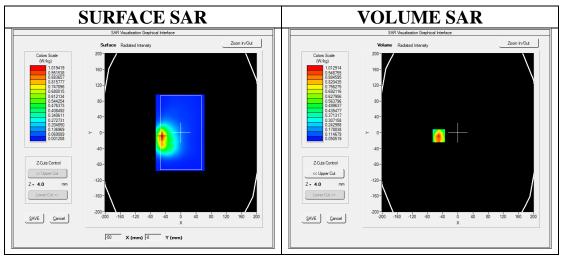
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/GPRS 850 Low-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GPRS 850 Low-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt		
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete		
Phantom	Validation plane		
Device Position	Body Back		
Band	GSM 850		
Channels	Low		
Signal	TDMA (Crest factor: 4.0)		

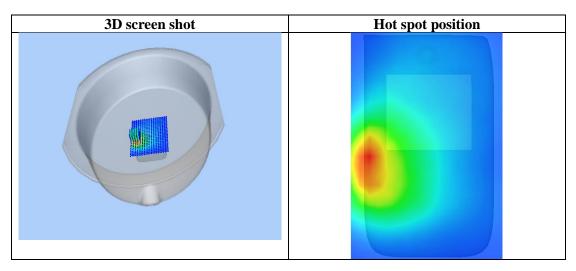


Maximum location: X=-50.00, Y=-8.00 SAR Peak: 1.52 W/kg

SAR 10g (W/Kg)	0.570633		
SAR 1g (W/Kg)	0.956878		

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	1.4270	1.0129	0.6528	0.4331	0.2739	0.2064	0.1360
(W/Kg)							
	1.4-	 			 		
	1.2-						
	<u></u> 1.0-	+ $+$ $+$ $-$					
	6 1.0- 8 0.8-						
	≥ 0.8-						
	S 0.6-	+++		+++	+		
	0.4-						
	0.1-	2.5 5.0 7.5 10).0 15.0	20.0 25.0	20.0 25	0 400	
	0.0	2.5 5.0 7.5 10			30.0 35	.0 40.0	
	_			Z (mm)			



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Test Laboratory: AGC Lab Date: Dec. 27,2016

GPRS 850 Low- Body- Back (2up) <SIM 2>

DUT: Tablet; Type: TTV-767

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=5.89; Frequency: 824.2 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.92$ mho/m; ϵ r = 56.61; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.8, Liquid temperature ($^{\circ}$ C): 21.1

SATIMO Configuration:

Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

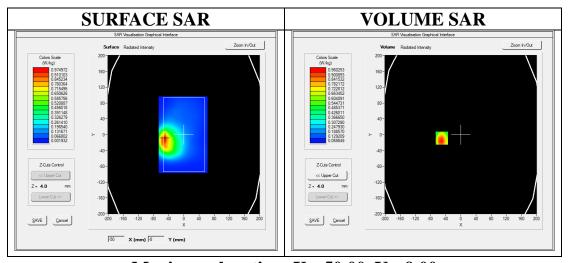
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/GPRS 850 Low-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GPRS 850 Low-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt		
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete		
Phantom	Validation plane		
Device Position	Body Back		
Band	GSM 850		
Channels	Low		
Signal	TDMA (Crest factor: 4.0)		

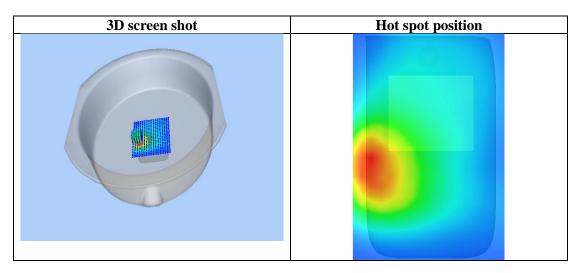


Maximum location: X=-50.00, Y=-9.00 SAR Peak: 1.34 W/kg

	8
SAR 10g (W/Kg)	0.601993
SAR 1g (W/Kg)	0.923056

Report No.: AGC00653161204FH01 Page 62 of 81

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	1.4803	0.9603	0.5731	0.4890	0.2958	0.2332	0.1559
(W/Kg)							
	1.5-						
	1						
	1.2-	$\overline{}$					
	G 10-	\perp					
	© 1.0 8 0.8	\perp					
	≥ 0.8-	+					
	SAR 0.6-	++	\sqcup	+++	+++		
	0.4-						
	0.1-				+++		
	0.1- 0.0	2.5 5.0 7.5 10	0.0 15.0	20.0 25.0	30.0 35	.0 40.0	
Z (mm)							
				` '			



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Test Laboratory: AGC Lab Date: Dec. 29,2016

PCS 1900 Mid-Touch-Right <SIM 1> DUT: Tablet; Type: TTV-767

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=5.14; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.38$ mho/m; $\epsilon r = 40.94$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature (°C): 22.5, Liquid temperature (°C): 21.8

SATIMO Configuration:

Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

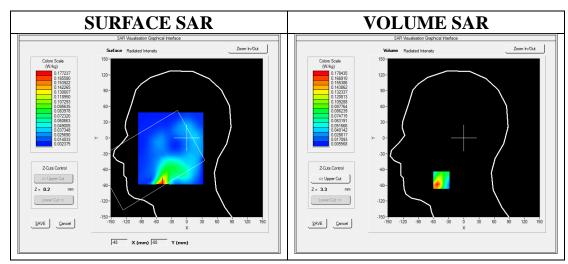
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/PCS1900 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 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,Complete			
Phantom	Right head			
Device Position	Cheek			
Band	PCS 1900			
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			

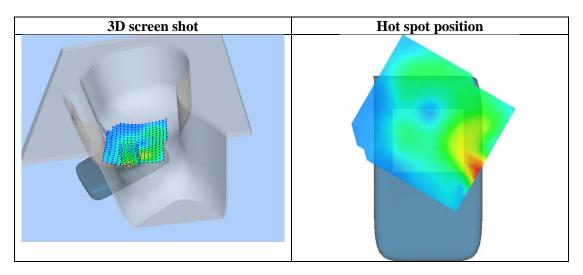


Maximum location: X=-42.00, Y=-80.00 SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.084125		
SAR 1g (W/Kg)	0.158754		

Report No.: AGC00653161204FH01 Page 64 of 81

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.3831	0.1784	0.0526	0.0709	0.0226	0.0284	0.0109
(W/Kg)							
	0.38-						
	0.35-	\cdots		$\overline{}$			
	0.30-	+++	++++				
	Gn 25-	\mathbf{A}					
	© 0.25 8 0.20	$\Lambda \sqcup \Box$					
	S 0.20-						
	K 0.15-	+		+++			
	0.10-	++					
	0.05-	\perp					
	0.01 -		1		-		
	0.0	2.5 5.0 7.51	0.0 15.0	20.0 25.0	30.0 35	.0 40.0	
				Z (mm)			



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Test Laboratory: AGC Lab Date: Dec. 29,2016

PCS 1900 Mid-Body-Back (MS)<SIM 1> DUT: Tablet; Type: TTV-767

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=5.34; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.48$ mho/m; ϵ r = 54.12; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 22.5, Liquid temperature ($^{\circ}$ C): 21.5

SATIMO Configuration:

Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

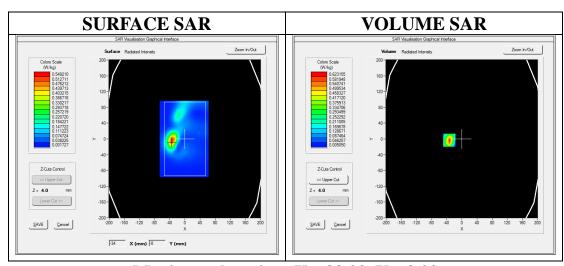
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/PCS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/PCS1900 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
Phantom	Validation plane			
Device Position	Body Back			
Band	PCS 1900			
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			

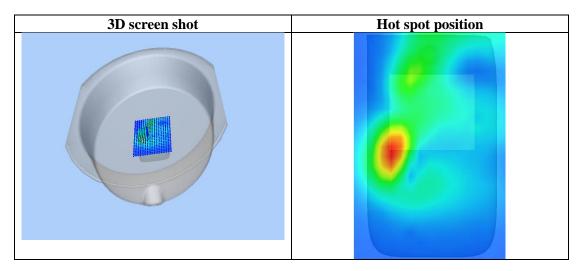


Maximum location: X=-33.00, Y=-3.00 SAR Peak: 0.98 W/kg

SAR 10g (W/Kg)	0.281792		
SAR 1g (W/Kg)	0.568732		

Report No.: AGC00653161204FH01 Page 66 of 81

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.9759	0.6232	0.3529	0.2229	0.1390	0.0834	0.0560
(W/Kg)							
	0.8- 0.8- 0.6- 0.4- 0.2- 0.0-	2.5 5.0 7.5 10		20.0 25.0 Z (mm)	30.0 35	5.0 40.0	



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Test Laboratory: AGC Lab

Date: Dec. 29,2016

GPRS1900 Mid-Touch-Right (4up) DUT: Tablet; Type: TTV-767

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=5.14; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.38$ mho/m; ϵ r =40.94; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature (°C): 22.5, Liquid temperature (°C): 21.8

SATIMO Configuration:

Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

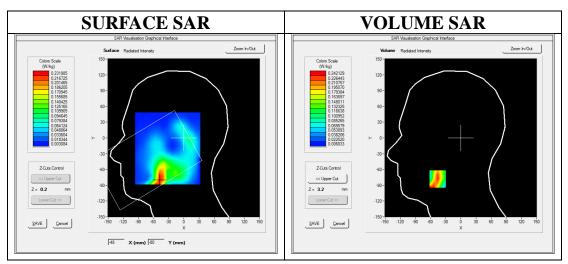
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/GPRS1900 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GPRS1900 Mid-Touch-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,Complete			
Phantom	Right head			
Device Position	Cheek			
Band	PCS 1900			
Channels	Middle			
Signal	TDMA (Crest factor: 2.0)			

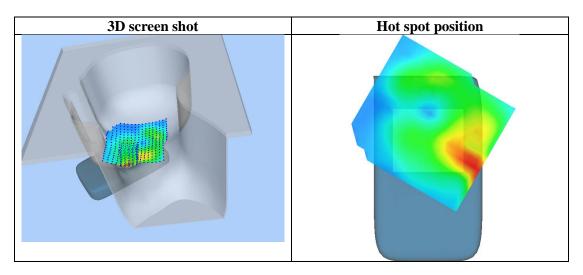


Maximum location: X=-46.00, Y=-78.00 SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.124216		
SAR 1g (W/Kg)	0.210376		

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.5270	0.2421	0.0666	0.0843	0.0241	0.0302	0.0111
(W/Kg)							
	0.5-						
	T						
	0.4-	\longleftarrow					
		\					
	§ 0.3-	+++-					
	SAR 0.2-	$ \mathbf{N} $					
	S 0.2-						
	0.1-						
	U. 1	1 \					
	0.0-				+		
	0.0	2.5 5.0 7.5 10		20.0 25.0	30.0 35	.0 40.0	
				Z (mm)			



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Test Laboratory: AGC Lab Date: Dec. 29,2016

GPRS 1900 Low-Body-Back (4up) DUT: Tablet; Type: TTV-767

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=5.34; Frequency: 1850.2 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.46$ mho/m; $\epsilon r = 54.85$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 22.5, Liquid temperature ($^{\circ}$ C): 21.5

SATIMO Configuration:

Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

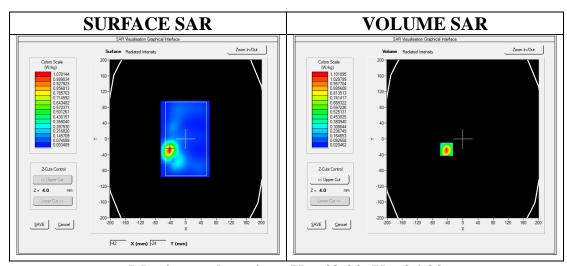
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/GPRS1900 Low-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GPRS1900 Low-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt			
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
Phantom	Validation plane			
Device Position	Body Back			
Band	PCS 1900			
Channels	Low			
Signal	TDMA (Crest factor: 2.0)			

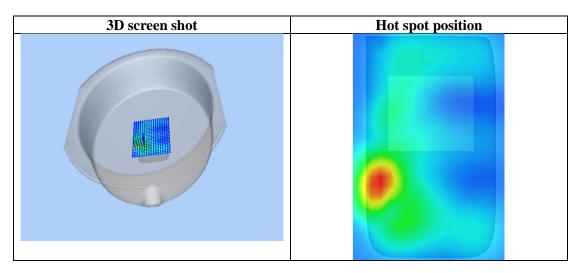


Maximum location: X=-43.00, Y=-26.00 SAR Peak: 1.58 W/kg

SAR 10g (W/Kg)	0.565453
SAR 1g (W/Kg)	1.035527

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0.00	4.00	9.00	14.00	19.00	24.00	29.00
1.5563	1.1019	0.7068	0.4331	0.2720	0.1843	0.1069
1.6-						
1.4-	++-	++++	+++	+++		
12-						
	$\mathbb{I} \setminus \mathbb{I}$					
₹ 1.0-						
≥ 0.8-	$++\lambda$	++++	+++	+++		
¥	1 1 1					
0.4-				+++		
0.2-						
			1 1 7	+		
0.0	2.5 5.0 7.5 10	0.0 15.0	20.0 25.0	30.0 35	.0 40.0	
			Z (mm)			
	1.5563 1.6- 1.4- 1.2- (B) 1.0- W 0.8- W 0.6- 0.4- 0.2- 0.1-	1.5563 1.1019 1.6- 1.4- 1.2- (B) 1.0- W 0.8- W 0.6- 0.4- 0.2- 0.1-	1.5563 1.1019 0.7068 1.6 1.4 1.2 (B) 1.0 0.8 0.8 0.4 0.2 0.1 0.0 2.5 5.0 7.5 10.0 15.0	1.5563 1.1019 0.7068 0.4331 1.6 1.4 1.2 1.0 0.8 0.8 0.4 0.4 0.2 0.1	1.5563 1.1019 0.7068 0.4331 0.2720 1.6 1.4 1.2 0.8 0.8 0.4 0.2 0.1 0.0 2.5 5.0 7.5 10.0 15.0 20.0 25.0 30.0 35	1.5563 1.1019 0.7068 0.4331 0.2720 0.1843 1.6-1.4-1.2-1.2-1.2-1.2-1.2-1.2-1.2-1.2-1.2-1.2



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Test Laboratory: AGC Lab Date: Dec. 29,2016

GPRS 1900 Low-Body-Back (4up) <SIM2>

DUT: Tablet; Type: TTV-767

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=5.34; Frequency: 1850.2 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.46$ mho/m; $\epsilon r = 54.85$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 22.5, Liquid temperature ($^{\circ}$ C): 21.5

SATIMO Configuration:

Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

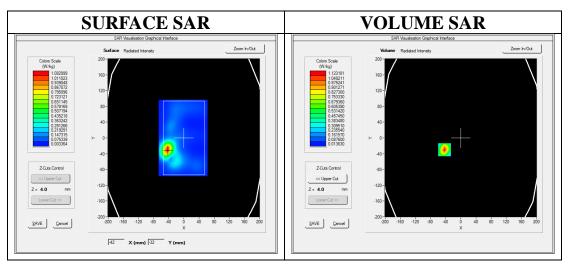
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/GPRS1900 Low-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GPRS1900 Low-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt			
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
Phantom	Validation plane			
Device Position	Body Back			
Band	PCS 1900			
Channels	Low			
Signal	TDMA (Crest factor: 2.0)			

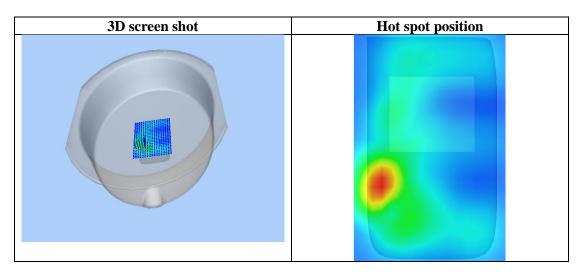


Maximum location: X=-43.00, Y=-30.00 SAR Peak: 1.63 W/kg

SAR 10g (W/Kg)	0.564743		
SAR 1g (W/Kg)	1.022507		

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0.00	4.00	9.00	14.00	19.00	24.00	29.00
1.6458	1.1232	0.6986	0.4470	0.2885	0.1855	0.1132
1.6-	+++					
1.4-						
	X					
₹ 1.0-	$+$ \wedge $+$	+++	- - - - - - - - - 	+++		
≥ ₀₈ -	++					
A S						
0, 0.6-						
0.4-	+++	+++				
0.2-						
0.1-	1 1 1					
0.0	2.5 5.0 7.5 10	0.0 15.0	20.0 25.0	30.0 35	.0 40.0	
			Z (mm)			
	1.6458 1.6-1 1.4-1 1.2-1 0.8-1 0.8-1 0.4-1 0.2-1 0.1-1	1.6458 1.1232 1.6-1.4-1.2-1.2-1.0-1.2-1.0-1.2-1.0-1.2-1.0-1.2-1.0-1.2-1.2-1.2-1.2-1.2-1.2-1.2-1.2-1.2-1.2	1.6458 1.1232 0.6986 1.6458 1.1232 0.6986 1.6458 1.05 0.85 0.85 0.65 0.45 0.75 0.00 2.5 5.0 7.5 10.0 15.0	1.6458 1.1232 0.6986 0.4470 1.6 1.4 1.2 1.0 0.8 0.8 0.4 0.2 0.1	1.6458 1.1232 0.6986 0.4470 0.2885	1.6458 1.1232 0.6986 0.4470 0.2885 0.1855



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WIFI MODE

Test Laboratory: AGC Lab Date: Jan. 05,2017

802.11b Mid- Touch-Right DUT: Tablet; Type: TTV-767

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.07;

Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.81$ mho/m; $\epsilon r = 39.85$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C):22.3, Liquid temperature ($^{\circ}$ C): 21.81

SATIMO Configuration:

· Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

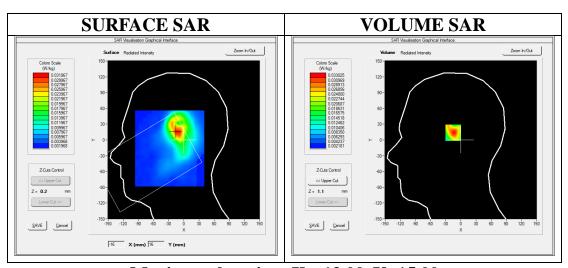
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

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

Area Scan	sam_direct_droit2_surf8mm.txt			
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm			
Phantom	Right head			
Device Position	Cheek			
Band	2450MHz			
Channels	Middle			
Signal	Crest factor: 1.0			



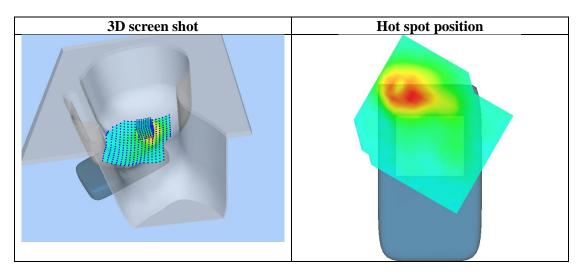
Maximum location: X=-13.00, Y=15.00

SAR Peak: 0.05 W/kg

SAR 10g (W/Kg)	0.016446
SAR 1g (W/Kg)	0.030975

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0535	0.0330	0.0172	0.0097	0.0053	0.0040	0.0032
(W/Kg)							
	0.05-						
	0.04-	\rightarrow					
	Ø 0.03	V					
	§ 0.03-						
	S 0.02-	$++\lambda$			+++		
			\mathbb{N}				
	0.01-						
	0.00			7-1-1	+		
	0.0	2.5 5.0 7.51	0.0 15.0	20.0 25.0	30.0 35	.0 40.0	
				Z (mm)			



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Test Laboratory: AGC Lab Date: Jan. 05,2017

802.11b Mid-Body-Worn- Back (DTS) DUT: Tablet; Type: TTV-767

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.19;

Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.94$ mho/m; $\epsilon r = 53.63$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C):22.3, Liquid temperature (°C): 21.5

SATIMO Configuration:

Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

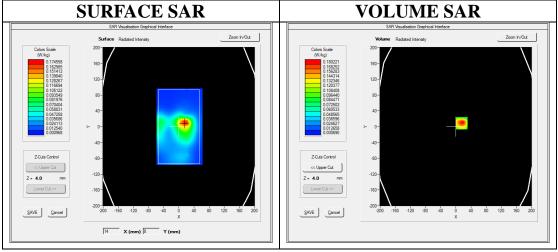
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

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

Area Scan	surf_sam_plan.txt			
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm			
Phantom	Validation plane			
Device Position	Body Back			
Band	2450MHz			
Channels	Middle			
Signal	Crest factor: 1.0			

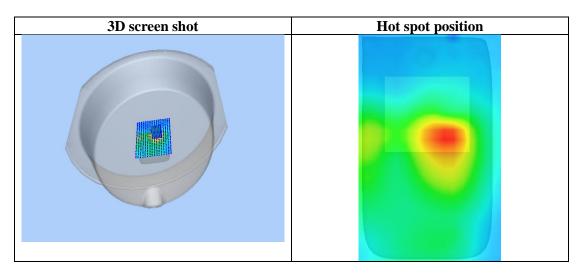


Maximum location: X=16.00, Y=9.00 SAR Peak: 0.36 W/kg

SAR 10g (W/Kg)	0.076280
SAR 1g (W/Kg)	0.177377

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3629	0.1802	0.0621	0.0221	0.0096	0.0051	0.0039
	0.36- 0.30 0.25 0.20 WW 0.15 0.10						
	0.00-¦ 0.0	2.5 5.0 7.5 1	0.0 15.0	20.0 25.0 Z (mm)	30.0 35	.0 40.0	



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Repeated

Test Laboratory: AGC Lab Date: Dec. 27,2016

GPRS 850 Low- Body- Back (2up) DUT: Tablet; Type: TTV-767

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=5.89; Frequency: 824.2 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.92$ mho/m; ϵ r = 56.61; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.1

SATIMO Configuration:

• Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

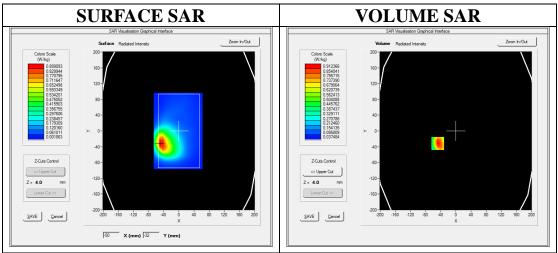
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

Configuration/GPRS 850 Low-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GPRS 850 Low-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt			
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
Phantom	Validation plane			
Device Position	Body Back			
Band	GSM 850			
Channels	Low			
Signal	TDMA (Crest factor: 4.0)			

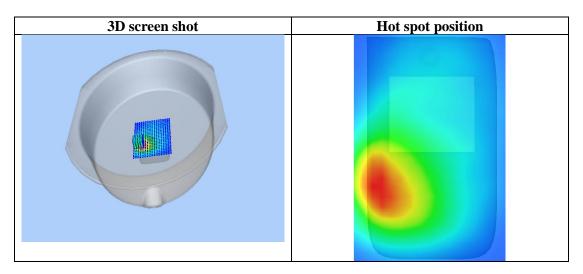


Maximum location: X=-48.00, Y=-32.00 SAR Peak: 1.33 W/kg

SAR 10g (W/Kg)	0.530758
SAR 1g (W/Kg)	0.873832

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3343	0.9124	0.5610	0.3629	0.2283	0.1504	0.1023
	1.3- 1.2- 1.0- (by 0.8- 0.6- 0.4- 0.2- 0.1- 0.0	2.5 5.0 7.5 10		20.0 25.0 Z (mm)	30.0 35	0.0 40.0	



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Test Laboratory: AGC Lab Date: Dec. 29,2016

GPRS 1900 Low-Body-Back (4up) DUT: Tablet; Type: TTV-767

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=5.34; Frequency: 1850.2 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.46 \text{ mho/m}$; $\epsilon r = 54.85$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 22.5, Liquid temperature ($^{\circ}$ C): 21.5

SATIMO Configuration:

Probe: SSE5; Calibrated: 07/05/2016 Serial No.: SN 14/16 EP307

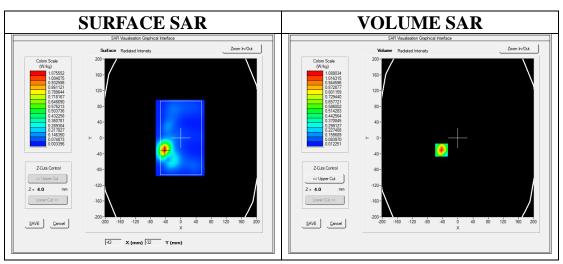
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/GPRS1900 Low-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GPRS1900 Low-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt		
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete		
Phantom	Validation plane		
Device Position	Body Back		
Band	PCS 1900		
Channels	Low		
Signal	TDMA (Crest factor:2.0)		

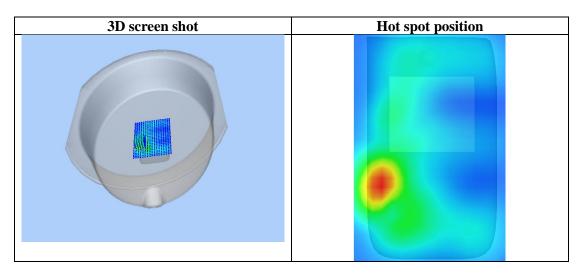


Maximum location: X=-43.00, Y=-31.00 SAR Peak: 1.56 W/kg

SAR 10g (W/Kg)	0.558028
SAR 1g (W/Kg)	1.010137

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	1.5450	1.0880	0.6899	0.4417	0.2790	0.1777	0.1161
(W/Kg)							
	1.5-						
	1.4-		+++	+++	+		
	1.2-	\mathbf{X}					
	© 1.0- 8 0.8-						
	≥ 0.8-	++	++++	+++			
	SAB 0.6-						
	0.4-						
	0.2-	+++	$\overline{}$				
	0.1-						
	0.0	2.5 5.0 7.5 10		20.0 25.0	30.0 35	.0 40.0	
				Z (mm)			



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APPENDIX C. TEST SETUP PHOTOGRAPHS & EUT PHOTOGRAPHS

Refer to Attached files.

APPENDIX D. CALIBRATION DATA

Refer to Attached files.