

SAR Test Report

Report No.: AGC03175180301FH01

FCC ID : 2AF6M3396993M236

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Mobile Phone

BRAND NAME : Cellacom

MODEL NAME : M236, M236a, M236b, M236c, M236d, M236e

CLIENT: Mobile Commodity Corporation

DATE OF ISSUE: Apr. 18,2018

IEEE Std. 1528:2013

STANDARD(S) : FCC 47CFR § 2.1093

IEEE/ANSI C95.1:2005

REPORT VERSION : V1.0

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Report Revise Record

	Report Version	Revise Time	Issued Date	Valid Version	Notes
4	V1.0	O Marian de C	Apr. 18,2018	Valid	Initial Release

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	Test Report Certification		
Applicant Name	Mobile Commodity Corporation		
Applicant Address	20955 Pathfinder Road, Suite 200, Diamond Bar, CA 91765, USA		
Manufacturer Name	Cellacom Incorporation		
Manufacturer Address	20955 Pathfinder Road, Suite 100, Diamond Bar, CA 91765, USA		
Product Designation	Mobile Phone		
Brand Name	Cellacom		
Model Name	M236, M236a, M236b, M236c, M236d, M236e		
Different Description	All the models are same, only different in model names. The test model is M236.		
EUT Voltage	DC3.7V by battery		
Applicable Standard	IEEE Std. 1528:2013 FCC 47CFR § 2.1093 IEEE/ANSI C95.1:2005		
Test Date	Apr. 11,2018 to Apr. 13,2018		
Report Template	AGCRT-US-2.5G/SAR (2018-01-01)		

Note: The results of testing in this report apply to the product/system which was tested only.

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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:

Creationer Band	Highest Rep	SAR Test Limit		
Frequency Band	Head	Body-worn	(W/Kg)	
GSM 850	0.849	1.431	liti:	
PCS 1900	0.350	1.195	1.6	
Simultaneous Reported SAR	THE STATE OF THE S	The state of the s		
SAR Test Result	K Varmineros	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 D01 3G SAR Procedures v03r01

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	Mobile Phone
Test Model	M236
Hardware Version	M822C
Software Version	Cellacom_M236_MTK6261D_V01_20180313
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal Management of the second of the sec
GSM and GPRS	Co Financia CO CO
Support Band	□ GSM 850 □ PCS1900 (U.S. Bands) □ GSM 900 □ DCS 1800 (Non-U.S. Bands)
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	GSM850: 0.25dBi; PCS1900: 2.37dBi;
Max. Average Power	GSM850: 31.32dBm ;PCS1900: 28.77dBm
Bluetooth	C The Committee of the
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
Avg. Burst Power	-2.618dBm
Antenna Gain	1.0dBi
Accessories	
Battery	Brand name: Cellacom Model No. : M236 Voltage and Capacitance: 3.7 V & 1000mAh
Earphone	Brand name: N/A Model No. : N/A

2.The sample used for testing is end product.

Product

Type

Production unit

Identical Prototype

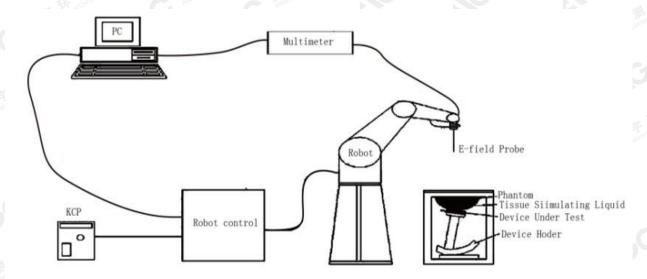
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3. SAR MEASUREMENT SYSTEM

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	SSE2
Manufacture	MVG
Identification No.	SN 08/16 EPGO282
Frequency	0.7GHz-6GHz Linearity:±0.06dB(700MHz-6GHz)
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.06dB
Dimensions	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity:1mm
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 6 GHz with precision of better 30%.

3.3. Robot

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

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

☐ High precision (repeatability 0.02 mm)

☐ High reliability (industrial design)

☐ Jerk-free straight movements

☐ Low ELF interference (the closed metallic construction shields against motor control fields)

□ 6-axis controller



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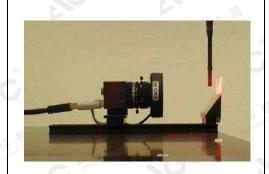
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3.4. Video Positioning System

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.

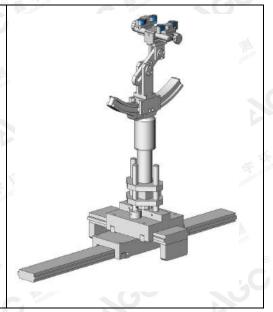


3.5. Device Holder

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.

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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 (p). 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_b 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 o measurement plane orientation the measurement resolution r x or y dimension of the test d measurement point on the tes	on, is smaller than the above, nust be ≤ the corresponding levice with at least one

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

				SUN COMMENT		
Maximum zoom scan	spatial reso	lution: Δx_{Zoom} , Δy_{Zoom}	$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$			
uniform grid: Δz _{Zoom}		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		
		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$				
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.

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^{*} 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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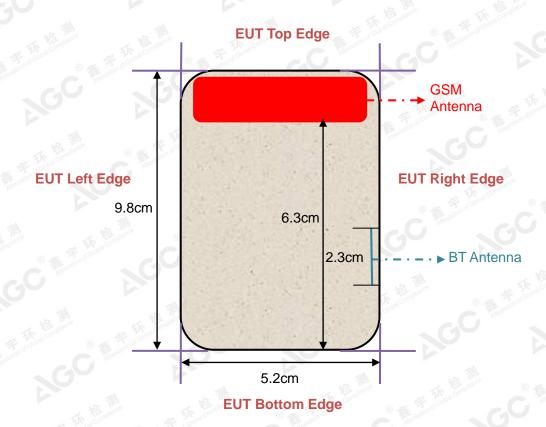
4.3. RF Exposure Conditions

Test Configuration and setting:

The EUT is a model of GSM Portable Mobile Station (MS). It supports GSM/GPRS, BT.

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.

Antenna Location: (the back view)



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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 5.2

5.1. The composition of the tissue simulating liquid

_	Ingredient (% Weight) Frequency (MHz)	Water	Naci	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
	835 Head	50.36	1.25	48.39	0.0	0.0	0.0
	835 Body	54.00	14 3	0.0	15	0.0	30
	1900 Head	54.9	0.18	0.0	44.92	0.0	0.0
	1900 Body	70	1	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		body
(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

($\varepsilon r = relative permittivity$, $\sigma = conductivity$ and $\rho = 1000 \text{ kg/m}3$)

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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 M	leasurement for 835MHz	**************************************	W. Co
No.	Fr.	Dielectric Pa	rameters (±5%)	Tissue	- N.G
	(MHz) εr 41.5 (39.425-43.575) δ[s/m] 0.90(0.855-0.945	δ[s/m] 0.90(0.855-0.945)	Temp [°C]	Test time	
Head 824.2 835 836.6 848.8	43.08	0.88	100	376	
	835	41.66	0.91	21.3	Apr.
	836.6	41.00	0.92	21.3	13,2018
	848.8	40.39	0.94		
	Fr.	Dielectric Pa	Tissue	llitz	
	(MHz)	εr 55.20(52.44-57-96)	δ[s/m]0.97(0.9215-1.0185)	[oC]	Test time
Body	824.2	57.15	0.95		
	835	56.13	0.95		Apr.
	836.6	55.84	0.96	21.5	13,2018
	848.8	54.77	0.98	THE SHARE	The Compliance

<u> </u>		Tissue Stimulant Me	easurement for 1900MHz			
The of Global Con	Fr.	Dielectric Par	Tissue	-cal		
Affestation	(MHz)	εr40.00(38.00-42.00) δ[s/m]1.40(1.33-1.47)		Temp [°C]	Test time	
Head	1850.2	41.59	1.35	® # Hestation of Clos	Artestano	
	1880	40.75	1.39	21.3	Apr.	
	1900	40.38	1.41	21.3	11,2018	
	1909.8	39.53	1.43	-mil		
(6)	Fr.	Dielectric Par	Tissue	The color of Globa		
lim	(MHz)	εr53.30(50.635-55.965)	δ[s/m]1.52(1.444-1.596)	Temp [oC]	Test time	
Body	1850.2	55.04	1.47			
Global	1880	54.28	1.50	21.5	Apr.	
	1900	53.97	1.53	21.5	11,2018	
	1909.8	53.05	1.56	allon of Global		

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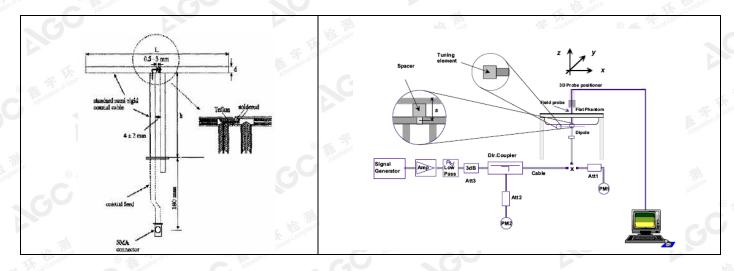
6. SAR SYSTEM CHECK PROCEDURE

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.

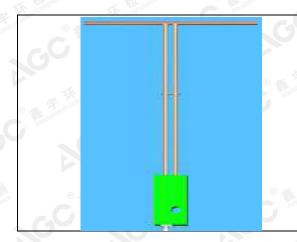


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6.2. SAR System Check 6.2.1. Dipoles



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

6.2.2. System Check Result

System Per	formance	Check a	t 835MHz&1900N	//Hz for Head					
Validation K	it: SN29/	15 DIP 00	8835-383&SN 29	/15 DIP 1G900-38	89				
Frequency	Target Value(W/Kg)		Reference Result (± 10%)		Tested Value(W/Kg)		Tissue Temp.	Test time	
[MHz]	1g	10g	1g	10g	1g	10g	[°Cj		
835	10.04	6.43	9.036-11.044	5.787 -7.073	9.70	6.02	21.3	Apr. 13,2018	
1900	41.44	21.33	37.296-45.584	19.197-23.463	38.00	20.00	21.3	Apr. 11,2018	
System Per	formance	Check a	t 835 MHz &1900	MHz for Body					
Frequency	Target Refe Value(W/Kg)		SOL TOO.	ce Result 0%)	Tested Value(W/Kg)		Tissue Temp.	Test time	
[MHz]	1g	10g	1g	10g	1g	10g	[°C]		
835	9.85	6.45	8.865-10.835	5.805-7.095	9.51	5.97	21.5	Apr. 13,2018	
1900	39.38	20.86	35.442-43.318	18.774-22.946	35.94	18.94	21.5	Apr. 11,2018	

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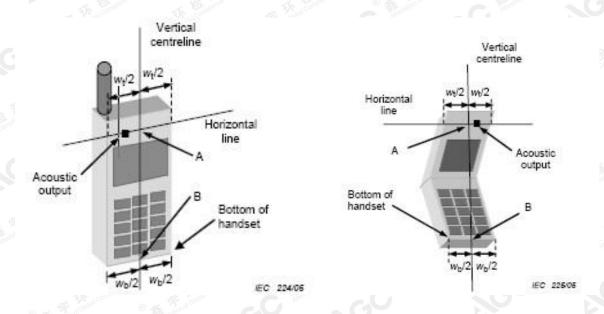
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7. EUT TEST POSITION

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

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.



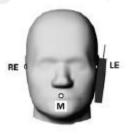
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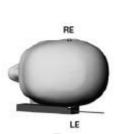
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7.2. Cheek Position

- (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





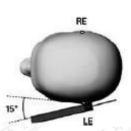


7.3. Tilt Position

- (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.







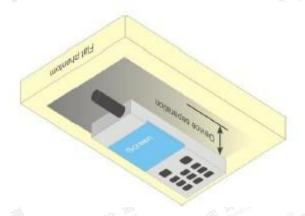
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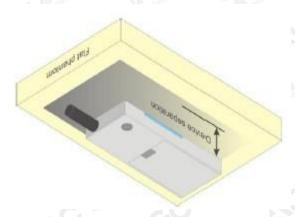


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7.4. Body Worn Position

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





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8. SAR EXPOSURE LIMITS

SAR assessments have been made in line with the requirements of 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)	9 Marian 1.60							
Spatial Average SAR (Whole body)	0.08							
Spatial Peak SAR (Limbs)	4.0							

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9. TEST FACILITY

7110	
Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Shenzhen 518012
NVLAP Lab Code	600153-0
Designation Number	CN5028
Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

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10. TEST EQUIPMENT LIST

Equipment description			Current calibration date	Next calibration date	
SAR Probe	MVG	SN 08/16 EPGO282	Aug. 08,2017	Aug. 07,2018	
Phantom	SATIMO	SN_4511_SAM90	Validated. No cal required.	Validated. No cal required.	
Liquid	SATIMO	· 下卷 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Validated. No cal required.	Validated. No ca required.	
Comm Tester	Agilent-8960	GB46310822	Mar. 01,2018	Feb. 28,2019	
Multimeter	Keithley 2000	1188656	Mar. 01,2018	Feb. 28,2019	
Dipole	SATIMO SID835	SN29/15 DIP 0G835-383	July 05,2016	July 04,2019	
Dipole	SATIMO SID1900	SN 29/15 DIP 1G900-389	July 05,2016	July 04,2019	
Signal Generator	Agilent-E4438C	US41461365	Mar. 01,2018	Feb. 28,2019	
Vector Analyzer	Agilent / E4440A	US41421290	Mar. 01,2018	Feb. 28,2019	
Network Analyzer	Rhode & Schwarz ZVL6	SN100132	Mar. 01,2018	Feb. 28,2019	
Attenuator	Warison /WATT-6SR1211	N/A	N/A	N/A	
Attenuator	Mini-circuits / VAT-10+	N/A	N/A	N/A	
Amplifier	EM30180	SN060552	Mar. 01,2018	Feb. 28,2019	
Directional Couple	Werlatone/ C5571-10	SN99463	June 20,2017	June 19,2018	
Directional Couple	Werlatone/ C6026-10	SN99482	June 20,2017	June 19,2018	
Power Sensor	NRP-Z21	1137.6000.02	Oct. 12,2017	Oct. 11,2018	
Power Sensor	NRP-Z23	US38261498	Mar. 01,2018	Feb. 28,2019	
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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11. MEASUREMENT UNCERTAINTY

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is< 1.5 W/Kg, the extensive SAR measurement uncertainty analysis described in IEEE 1528-2013 is not required in SAR reports submitted for equipment approval.

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12. CONDUCTED POWER MEASUREMENT GSM BAND

Mode Frequency(MHz)		Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <	i> C	Affeeton		311
R Allestation of	824.2	31.32	-9	22.32
GSM 850	836.6	31.24	-9	22.24
100	848.8	31.17	-9	22.17
GPRS 850	824.2	31.19	-9	22.19
(1 Slot)	836.6	31.13	-9	22.13
(T Glot)	848.8	31.20	-9	22.20
GPRS 850	824.2	28.33	永 ********** -6 # ***********************	22.33
(2 Slot)	836.6	28.29	-6 American	22.29
(2 Glot)	848.8	28.30	-6	22.30
ODDO OFO	824.2	26.37	-4.26	22.11
GPRS 850 (3 Slot)	836.6	26.59	-4.26	22.33
(3 3101)	848.8	26.50	-4.26	22.24
0000000	824.2	25.42	-3	22.42
GPRS 850 (4 Slot)	836.6	25.29	-3	22.29
(4 3101)	848.8	25.35	-3	22.35
1aximum Power <2	2>	THE THE	Applance (8) (4) The of Global Control	® Management of Glob
liti:	824.2	31.19	-9	22.19
GSM 850	836.6	31.22	-9	22.22
	848.8	31.13	-9	22.13
ODDO 050	824.2	31.12	-9	22.12
GPRS 850 (1 Slot)	836.6	31.11	-9 ®	22.11
(TOIOL)	848.8	31.18	-9 - P	22.18
CDDC 050	824.2	28.31	-6	22.31
GPRS 850 (2 Slot)	836.6	28.25	-6	22.25
(2 GiOt)	848.8	28.28	-6	22.28
ODD0 050	824.2	26.36	-4.26	22.10
GPRS 850 (3 Slot)	836.6	26.52	-4.26	22.26
(3 SIUL)	848.8	26.47	-4.26	22.21
0000.050	824.2	25.38	-3	22.38
GPRS 850	836.6	25.26	· 3 · 3	22.26
(4 Slot)	848.8	25.31	on of Comments	22.31

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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	S The state of clouds	(B) The standard Colonial Colonia Colonial Colonial Colonial Colon	0 20	-60
obal Company	1850.2	28.77	-9	19.77
PCS1900	1880	28.31	-9	19.31
60	1909.8	28.66	-9	19.66
GPRS1900	1850.2	28.01	-9	19.01
(1 Slot)	1880	27.99	-9	18.99
(I) Olot)	1909.8	27.95	-9	18.95
CDDC1000	1850.2	25.35	% -6	19.35
GPRS1900 (2 Slot)	1880	25.29	The straight of the straight o	19.29
(2 0101)	1909.8	25.36	-6	19.36
CDDC4000	1850.2	24.64	-4.26	20.38
GPRS1900 (3 Slot)	1880	24.50	-4.26	20.24
(3 3101)	1909.8	24.33	-4.26	20.07
00001000	1850.2	22.45	e -3 e 4	19.45
GPRS1900 (4 Slot)	1880	22.28	-3	19.28
(4 3101)	1909.8	22.54	-3	19.54
Maximum Power <2	> 6		恒	Alliance Fr. Com
60	1850.2	27.59	-9 4	18.59
PCS1900	1880	28.28	-9	19.28
	1909.8	28.61	-9	19.61
© 000000000000000000000000000000000000	1850.2	27.92	-9	18.92
GPRS1900 (1 Slot)	1880	27.95	1 4-9	18.95
(1 3101)	1909.8	27.88	1	18.88
CDDC4000	1850.2	25.31	Julian at -6	19.31
GPRS1900 (2 Slot)	1880	25.25	-6	19.25
(Z 310t)	1909.8	25.32	-6	19.32
00004000	1850.2	24.61	-4.26	20.35
GPRS1900 (3 Slot)	1880	24.47	-4.26	20.21
(3 3101)	1909.8	24.30	-4.26	20.04
C Me	1850.2	22.39	-3	19.39
GPRS1900	1880	22.22	-3	19.22
(4 Slot)	1909.8	22.50	5/ 13 -3 F	19.50

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

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Bluetooth_V2.1+EDR

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
11 THE THE	O Total	2402	-2.618
GFSK	39	2441	-4.043
	78	2480	-3.312
- C	0	2402	-3.452
π /4-DQPSK	39	2441	-4.737
	78	2480	-4.149
The ston of Globa	of Global	2402	-3.553
8-DPSK	39	2441	-4.833
	78	2480	-3.994

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. 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 5mm from the phantom.

13.1.2. Operation Mode

- 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
- 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. 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.) \times [maximum turn-up power (mw)/ maximum measurement output power(mw)]
- 6. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result.

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13.1.3. Test Result

SARM	IFASI	IREMEI	TV

Depth of Liquid (cm):>15 Relative Humidity (%): 51.2

Product: Mobile Phone

Test Mode: GSM850 with GMSK modulation

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	The demplane		Altestation	ALL ALL	station	-G Alles	10		
Left Cheek	voice	190	836.6	-0.12	0.433	31.32	31.24	0.441	1.6
Left Tilt	voice	190	836.6	0.15	0.110	31.32	31.24	0.112	1.6
Right Cheek	voice	190	836.6	-0.23	0.453	31.32	31.24	0.461	1.6
Right Tilt	voice	190	836.6	-0.26	0.111	31.32	31.24	0.113	1.6
Body back	voice	128	824.2	0.14	1.253	31.32	31.32	1.253	1.6
Body back	voice	190	836.6	0.01	1.284	31.32	31.24	1.308	1.6
Body back	voice	251	848.8	-0.08	1.243	31.32	31.17	1.287	1.6
Body front	voice	190	836.6	-0.17	0.732	31.32	31.24	0.746	1.6
Body back+Ear.	voice	128	824.2	0.09	0.884	31.32	31.32	0.884	1.6
Body back+Ear.	voice	190	836.6	-0.53	1.167	31.32	31.24	1.189	1.6
Body back+Ear.	voice	251	848.8	0.02	1.161	31.32	31.17	1.202	1.6
- GO				L FILL	W.	F "auco	T T Clobal Con	® # Julion	Globa
Left Cheek	GPRS-4 slot	128	824.2	-0.21	0.528	25.42	25.42	0.528	1.6
Left Cheek	GPRS-4 slot	190	836.6	0.28	0.804	25.42	25.29	0.828	1.6
Left Cheek	GPRS-4 slot	251	848.8	0.17	0.835	25.42	25.35	0.849	1.6
Left Tilt	GPRS-4 slot	190	836.6	-0.02	0.157	25.42	25.29	0.162	1.6
Right Cheek	GPRS-4 slot	190	836.6	0.16	0.636	25.42	25.29	0.655	1.6
Right Tilt	GPRS-4 slot	190	836.6	0.39	0.169	25.42	25.29	0.174	1.6
Body back	GPRS-4 slot	128	824.2	-0.67	1.319	25.42	25.42	1.319	1.6
Body back	GPRS-4 slot	190	836.6	-0.83	1.352	25.42	25.29	1.393	1.6
Body back	GPRS-4 slot	251	848.8	-0.52	1.408	25.42	25.35	1.431	1.6
Body front	GPRS-4 slot	128	824.2	0.37	0.794	25.42	25.42	0.794	1.6
Body front	GPRS-4 slot	190	836.6	-0.10	0.909	25.42	25.29	0.937	1.6
Body front	GPRS-4 slot	251	848.8	0.02	0.995	25.42	25.35	1.011	1.6
Body back+Ear.	GPRS-4 slot	128	824.2	-0.03	1.021	25.42	25.42	1.021	1.6
Body back+Ear.	GPRS-4 slot	190	836.6	-0.17	1.116	25.42	25.29	1.150	1.6
Body back+Ear.	GPRS-4 slot	251	848.8	-0.09	1.314	25.42	25.35	1.335	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 5mm of all above table.
- -Measurements for SIM Card 2 are not conducted since SIM Card 1 show the highest output power

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SAR MEASUREMENT

Depth of Liquid (cm):>15 Relative Humidity (%): 47.5

Product: Mobile Phone

Test Mode: PCS1900 with GMSK modulation

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			R. F. Told	Hopsi	F of Global Co.	® %	ion of Globs	And	6
Left Cheek	voice	661	1880.0	-0.33	0.110	28.77	28.31	0.122	1.6
Left Tilt	voice	661	1880.0	0.26	0.018	28.77	28.31	0.020	1.6
Right Cheek	voice	661	1880.0	-0.17	0.201	28.77	28.31	0.223	1.6
Right Tilt	voice	661	1880.0	-0.02	0.024	28.77	28.31	0.027	1.6
Body back	voice	661	1880.0	0.15	0.607	28.77	28.31	0.675	1.6
Body front	voice	661	1880.0	0.08	0.048	28.77	28.31	0.053	1.6
CG M	a.G. Alles	- 6	U				in line	Mir St.	3
Left Cheek	GPRS-3 slot	661	1880.0	-0.11	0.191	25.00	24.50	0.214	1.6
Left Tilt	GPRS-3 slot	661	1880.0	-0.09	0.033	25.00	24.50	0.037	1.6
Right Cheek	GPRS-3 slot	661	1880.0	0.17	0.312	25.00	24.50	0.350	1.6
Right Tilt	GPRS-3 slot	661	1880.0	-0.03	0.056	25.00	24.50	0.063	1.6
Body back	GPRS-3 slot	512	1850.2	-0.26	1.100	25.00	24.64	1.195	1.6
Body back	GPRS-3 slot	661	1880.0	0.53	1.025	25.00	24.50	1.150	1.6
Body back	GPRS-3 slot	810	1909.8	-0.32	1.023	25.00	24.33	1.194	1.6
Body front	GPRS-3 slot	661	1880.0	0.02	0.099	25.00	24.50	0.111	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 5mm of all above table.
- -Measurements for SIM Card 2 are not conducted since SIM Card 1 show the highest output power

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								-6111		
Repeated SAR										
Product: Mo	Product: Mobile Phone									
Test Mode: GSM850 & PCS1900 with GMSK modulation										
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit (W/kg)
Body back	GPRS-4 slot	251	848.8	-0.51	1.385	-0.46	1.374	ompliance_	® # Glob	1.6
Body back	GPRS-3 slot	512	1850.2	0.23	1.106	Glopal Co.	(8) A Julion of Globs	-	G AIL	1.6

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GSM (Data) + Bluetooth(data)

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Yes

NO Simultaneous state Portable Handset
Head Body-worn Hotspot

1 GSM(voice)+Bluetooth(data) Yes Yes -

Yes

NOTE:

- 1. Simultaneous with every transmitter must be the same test position.
- 2. KDB 447498 D01, BT SAR is excluded as below table.
- KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for head SAR and 5mm for body-worn SAR
- 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)] • [$\sqrt{(GHz)}$] ≤ 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.
- 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 ≤ 50 mm;

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

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 (IIIII)		
вт	Head	-2 o 🚛	0.631	0	0.026	
A Alemonian BI	Body	-2	0.631	5	0.026	

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Sum of the SAR for GSM 850 & BT:

RF Exposure	Test	Simultaneous Transı	Σ1-g SAR	SPLSR	
Conditions	Position	GSM 850	Bluetooth	(W/Kg)	(Yes/No)
Head (voice)	Left Touch	0.441	0.026	0.467	No
	Left Tilt	0.112	0.026	0.138	No :
	Right Touch	0.461	0.026	0.487	No
	Right Tilt	0.113	0.026	0.139	No
Body-worn (voice)	Rear	1.308	0.026	1.334	No
	Front	0.746	0.026	0.772	No
	Rear+Ear	1.202	0.026	1.228	No
Head (Data)	Left Touch	0.849	0.026	0.875	No
	Left Tilt	0.162	0.026	0.188	No
	Right Touch	0.655	0.026	0.681	No
	Right Tilt	0.174	0.026	0.200	No
Body-worn (Data)	Rear	1.431	0.026	1.457	No
	Front	1.011	0.026	1.037	No
	Rear+Ear	1.335	0.026	1.361	No

Note:

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⁻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 PCS 1900 & BT:

RF Exposure	Test	Simultaneous Trans	Σ1-g SAR	SPLSR		
Conditions	Position	PCS 1900 Bluetooth		(W/Kg)	(Yes/No)	
Head (voice)	Left Touch	0.122	0.026	0.148	No	
	Left Tilt	0.020	0.026	0.046	No 🐀	
	Right Touch	0.223	0.026	0.249	No	
	Right Tilt	0.027	0.026	0.053	No	
Body-worn (voice)	Rear 🧌	0.675	0.026	0.701	No	
	Front	0.053	0.026	0.079	No	
Head (Data)	Left Touch	0.214	0.026	0.240	No	
	Left Tilt	0.037	0.026	0.063	No 🛠	
	Right Touch	0.350	0.026	0.376	No	
	Right Tilt	0.063	0.026	0.089	No	
Body-worn (Data)	Rear	1.195	0.026	1.221	No	
	Front	0.111	0.026	0.137	No	

Note:

SPLSR mean is "The SAR to Peak Location Separation Ratio

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[·]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.



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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Date: Apr. 13,2018

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=1.74 Frequency: 835 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.91$ mho/m; $\epsilon r = 41.66$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):21.8, Liquid temperature (°C): 21.3

SATIMO Configuration

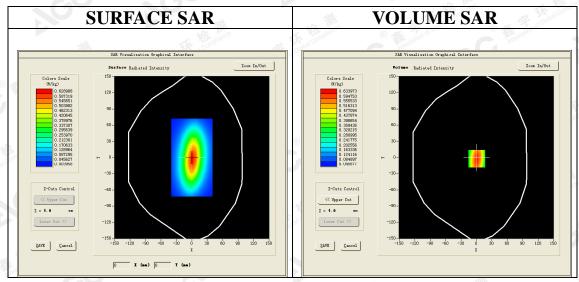
Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_32

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=-1.00 SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.380132
SAR 1g (W/Kg)	0.611743

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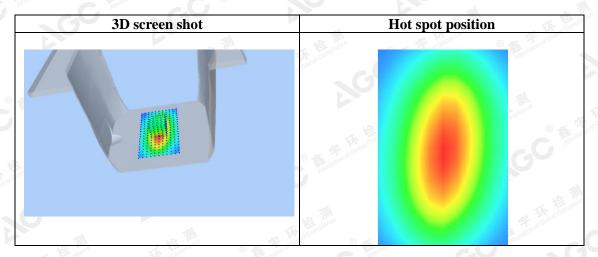
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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9023	0.6259	0.3998	0.2602	0.1727	0.1185	0.0803
	0.9-						
	0.8-	\longrightarrow					
		$\mathbf{N} \sqcup \mathbf{I}$					
	№ 0.6-	+					
	(%) 0.6- (%) (%)						
	€ 0.4-		+				
	of Glot G1						
	0.2-		+		++++		
	0.1-				┿┿┷	The Chapter	
		02.55.07.5	12.5 17.	.5 22.5 2	27.5 32.5	40.0	
				Z (mm)			
Se salon	(6)	N. 1					



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Date: Apr. 13,2018

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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=1.81 Frequency: 835 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.95$ mho/m; $\epsilon r = 56.13$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):21.8, Liquid temperature (°C): 21.5

SATIMO Configuration

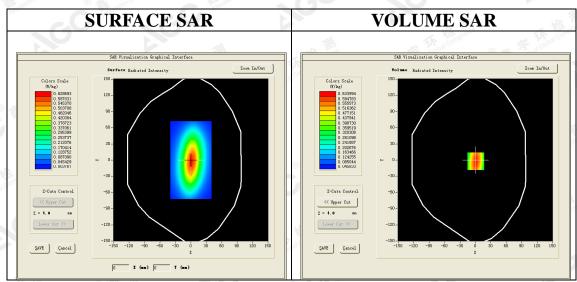
· Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

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=-2.00 SAR Peak: 0.90 W/kg

SAR 10g (W/Kg)	0.376953			
SAR 1g (W/Kg)	0.600197			

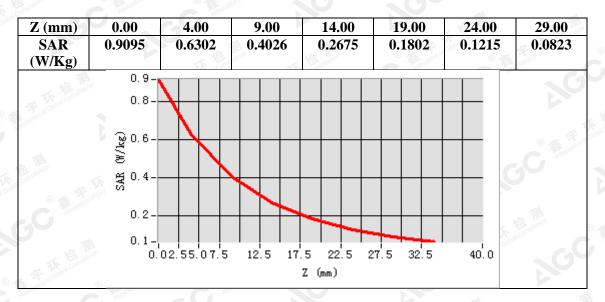
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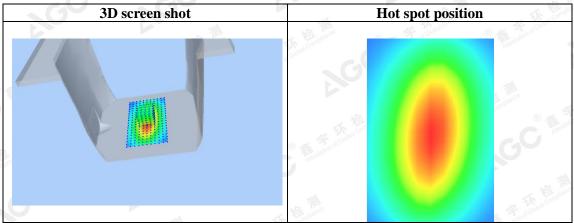
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Test Laboratory: AGC Lab System Check Head 1900MHz

DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.32 Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.41$ mho/m; $\epsilon r = 40.38$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):22.0, Liquid temperature (°C): 21.3

SATIMO Configuration:

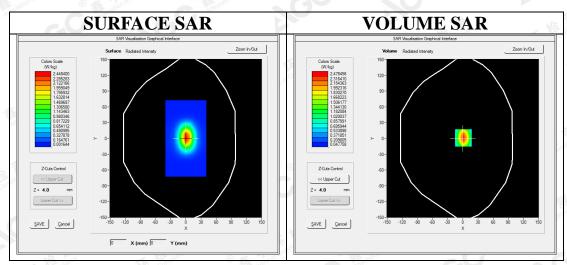
Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

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



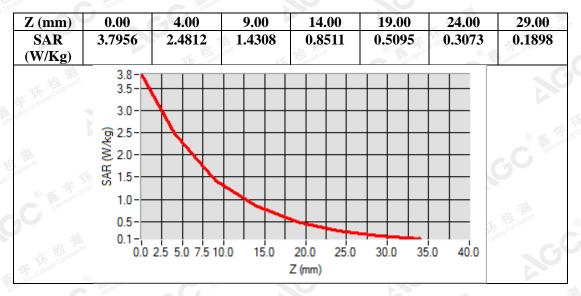
Maximum location: X=1.00, Y=0.00 SAR Peak: 3.80 W/kg

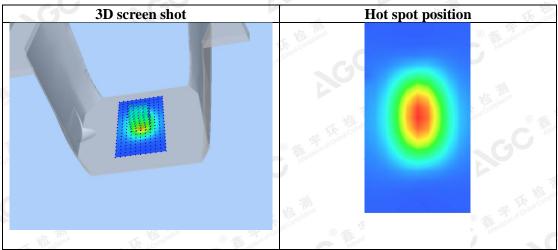
SAR 10g (W/Kg)	1.261472			
SAR 1g (W/Kg)	2.397430			

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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=2.39 Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.53$ mho/m; $\epsilon r = 53.97$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ($^{\circ}$ C):22.0, Liquid temperature ($^{\circ}$ C): 21.5

SATIMO Configuration:

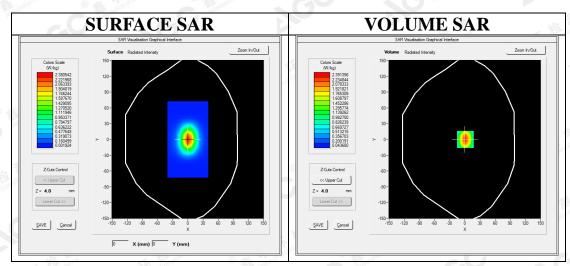
Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

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



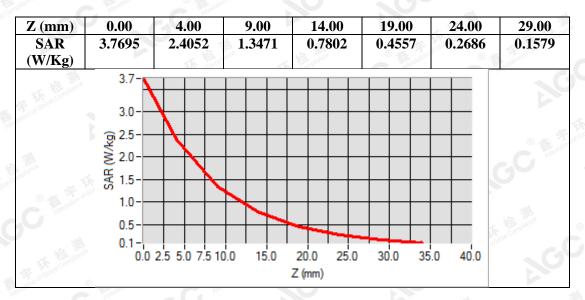
Maximum location: X=0.00, Y=0.00 SAR Peak: 3.79 W/kg

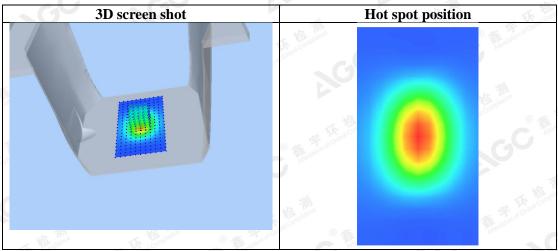
SAR 10g (W/Kg)	1.195301			
SAR 1g (W/Kg)	2.267441			

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab Date: Apr. 13,2018

GSM 850 Mid- Touch-Right <SIM 1> DUT: Mobile Phone; Type: M236

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.74; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.92$ mho/m; $\epsilon r = 41.00$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.8, Liquid temperature ($^{\circ}$ C): 21.3

SATIMO Configuration:

Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

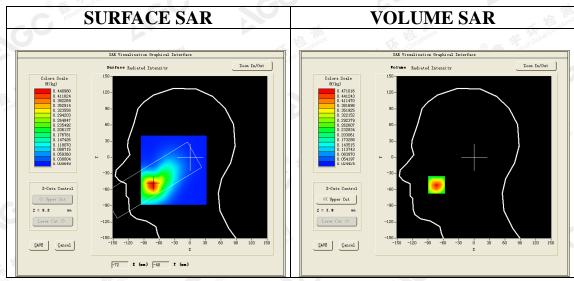
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_32

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 5x5x7,dx=8mm dy=8mm dz=5mm,Complete Right head Cheek GSM 850			
ZoomScan				
Phantom				
Device Position				
Band				
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			



Maximum location: X=-73.00, Y=-51.00 SAR Peak: 0.72 W/kg

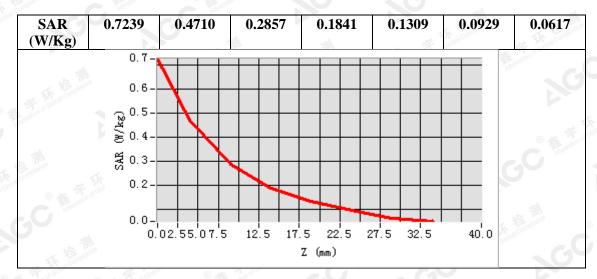
SAR 10g (W/Kg)	0.269118			
SAR 1g (W/Kg)	0.453227			

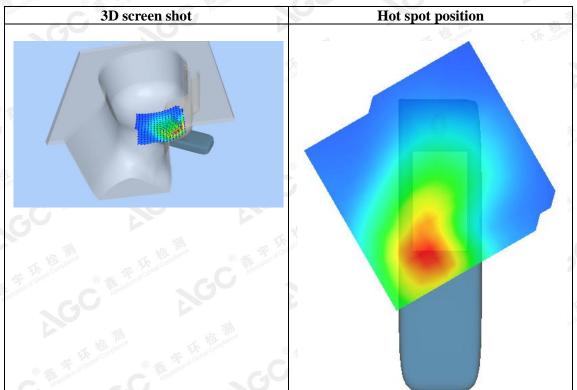
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Date: Apr. 13,2018

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Test Laboratory: AGC Lab

GSM 850 Mid- Body- Back (MS)<SIM 1> DUT: Mobile Phone; Type: M236

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.81; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.96$ mho/m; $\epsilon r = 55.84$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.5

SATIMO Configuration:

Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

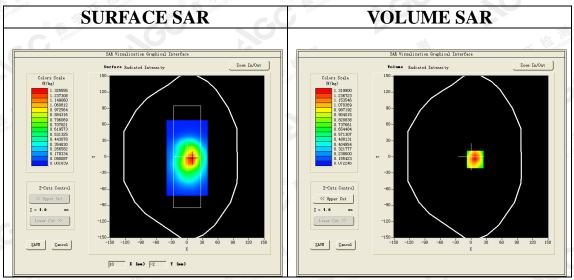
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

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

Area Scan	sam_direct_droit2_surf8mm.txt 5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
ZoomScan				
Phantom	Validation plane			
Device Position	Body Back			
Band	GSM 850			
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			



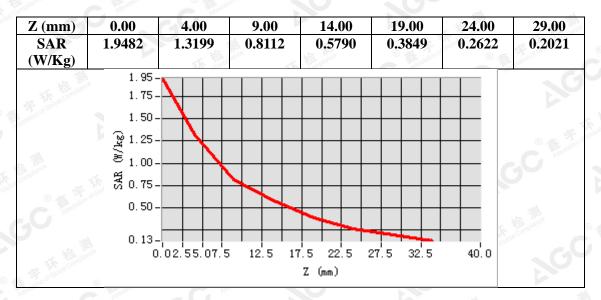
Maximum location: X=8.00, Y=-5.00 SAR Peak: 2.06 W/kg

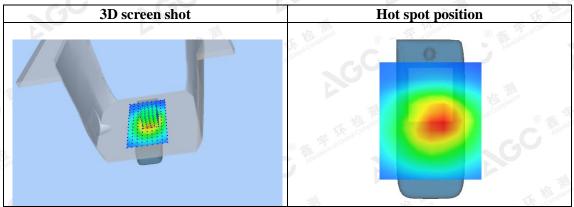
SAR 10g (W/Kg)	0.774904			
SAR 1g (W/Kg)	1.284161			

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Test Laboratory: AGC Lab

Date: Apr. 13,2018

GPRS 850 High-Touch-Left (4up)

DUT: Mobile Phone; Type: M236

Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1; Conv.F=1.74 Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.94$ mho/m; $\epsilon r = 40.39$; $\rho = 1000$ kg/m³;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.8, Liquid temperature ($^{\circ}$ C): 21.3

SATIMO Configuration:

· Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

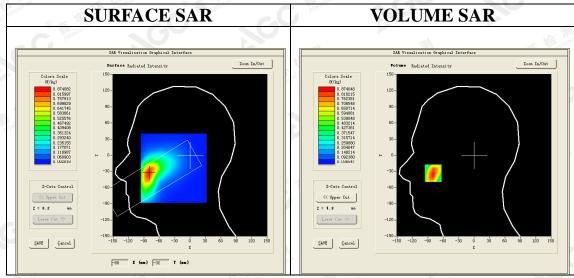
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 850 High-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/GPRS 850 High-Touch-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Area Scan	sam_direct_droit2_surf8mm.txt 5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
Zoom Scan				
Phantom	Left head			
Device Position	Cheek GSM 850			
Band				
Channels	High # 3			
Signal	TDMA (Crest factor: 2.0)			



Maximum location: X=-80.00, Y=-33.00 SAR Peak: 1.20 W/kg

SAR 10g (W/Kg)	0.535734
SAR 1g (W/Kg)	0.834800

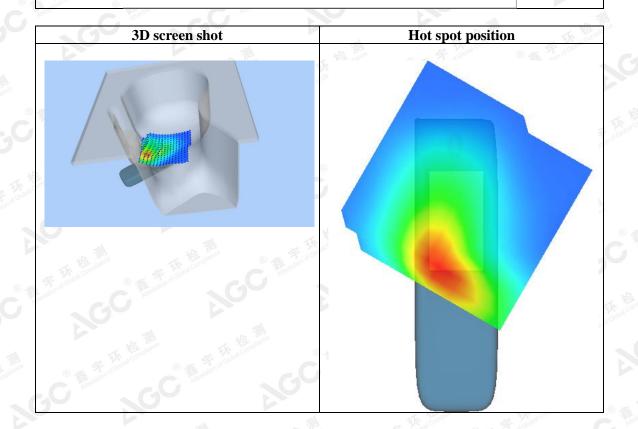
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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.1693	0.8740	0.6023	0.4153	0.2836	0.2022	0.1384
The Manual Communication	1.2-						NG
Alegation of Garage	-8.0 (#/kg)	\mathcal{A}					
Compliance	-9.0 (%	++					
(S) The state	ਯੋ 0.4-						
60	0.2- 0.1-				+++	¥ (6/0°)	
不检	0.	.02.55.07.5	12.5 17	.5 22.5 2	27.5 32.5	40.0	

Z (mm)



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Test Laboratory: AGC Lab Date: Apr. 13,2018

GPRS 850 High- Body- Back (4up) DUT: Mobile Phone; Type: M236

Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1; Conv.F=1.81; Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.98$ mho/m; $\epsilon r = 54.77$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.5

SATIMO Configuration:

Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

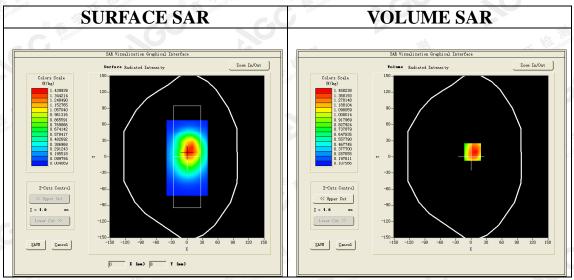
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

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

Area Scan	sam_direct_droit2_surf8mm.txt		
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete		
Phantom	Validation plane		
Device Position	Body Back		
Band	GSM 850		
Channels	High A		
Signal	TDMA (Crest factor: 2.0)		



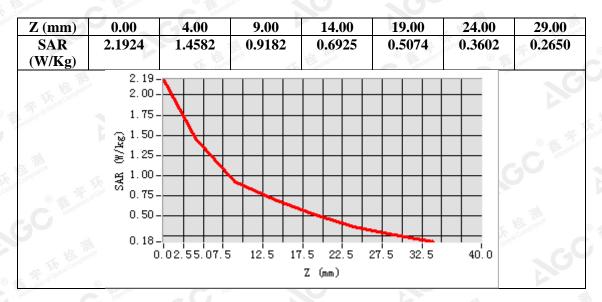
Maximum location: X=3.00, Y=9.00 SAR Peak: 2.01 W/kg

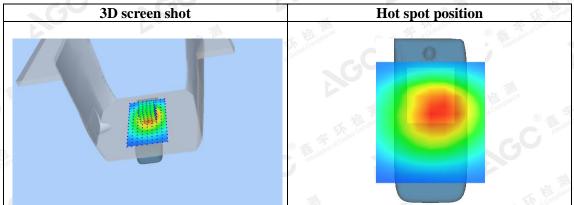
SAR 10g (W/Kg)	0.930847
SAR 1g (W/Kg)	1.407520

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Test Laboratory: AGC Lab

PCS 1900 Mid-Touch-Right <SIM 1> DUT: Mobile Phone; Type: M236

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.32; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.39$ mho/m; $\epsilon = 40.75$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature (°C): 22.0, Liquid temperature (°C): 21.3

SATIMO Configuration:

Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

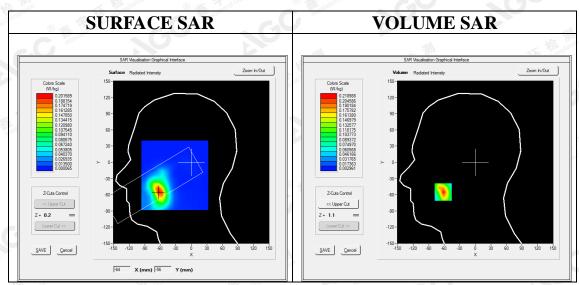
Sensor-Surface: 4mm (Mechanical Surface Detection)

· 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=-62.00, Y=-55.00 SAR Peak: 0.34 W/kg

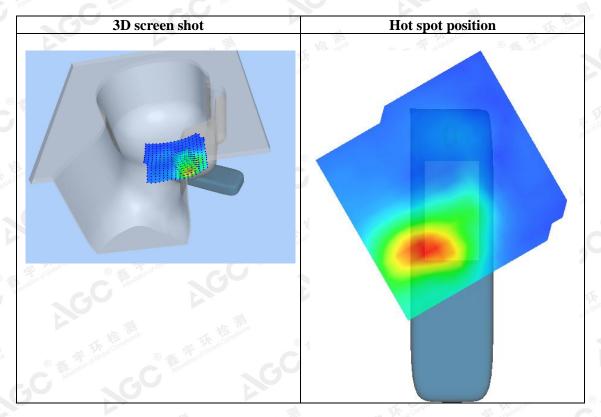
SAR 10g (W/Kg)	0.106771
SAR 1g (W/Kg)	0.201052

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0.00	4.00	9.00	14.00	19.00	24.00	29.00
0.3407	0.2190	0.1248	0.0798	0.0485	0.0294	0.0195
0.34						
	$\rightarrow \downarrow \downarrow$					
	++		+++			
0.10-						
0.05			+++		Jr.	
0.01- ₁	0 2.5 5.0 7.51	10.0 15.0	20.0 25.0 Z (mm)	30.0 35	.0 40.0	
	0.3407 0.34-0.30-0.25-0.25-0.15-0.10-0.05-0.01-0-0.01-0-0.05-0.01-0-0.34-07	0.3407 0.2190 0.34- 0.30- 0.25- 0.20- WY 0.15- 0.10- 0.05- 0.01-	0.3407 0.2190 0.1248 0.34- 0.30- 0.25- 0.25- 0.10- 0.05- 0.01-	0.3407 0.2190 0.1248 0.0798 0.34 0.30 0.25 0.10 0.05 0.010 0.05 0.01 0.0 2.5 5.0 7.5 10.0 15.0 20.0 25.0	0.3407 0.2190 0.1248 0.0798 0.0485 0.34 0.30 0.25 0.10 0.05 0.01 0.025 0.01 0.025 0.10 0.05 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01 0.025 0.01	0.3407



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Test Laboratory: AGC Lab

PCS 1900 Mid-Body-Back (MS)<SIM 1> DUT: Mobile Phone; Type: M236

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.39; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.50$ mho/m; $\epsilon r = 54.28$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 22.0, Liquid temperature (°C): 21.5

SATIMO Configuration:

· Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

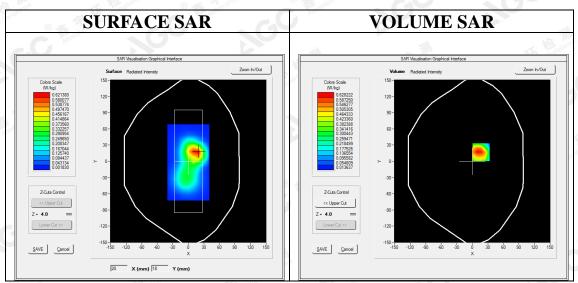
Sensor-Surface: 4mm (Mechanical Surface Detection)

· 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	sam_direct_droit2_surf8mm.txt 5x5x7,dx=8mm dy=8mm dz=5mm,Complete		
ZoomScan			
Phantom	Validation plane		
Device Position	Body Back		
Band	PCŚ 1900		
Channels	Middle		
Signal	TDMA (Crest factor: 8.0)		



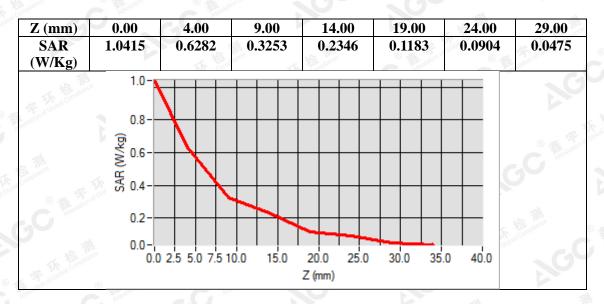
Maximum location: X=17.00, Y=17.00 SAR Peak: 0.99 W/kg

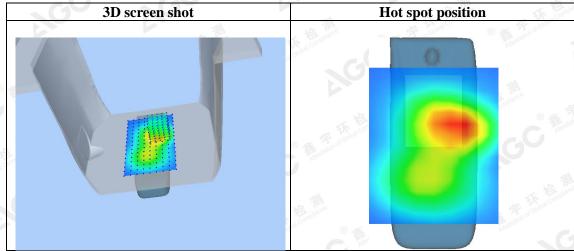
SAR 10g (W/Kg)	0.342187
SAR 1g (W/Kg)	0.607433

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Test Laboratory: AGC Lab Date: Apr. 11,2018

GPRS1900 Mid-Touch-Right (3up) DUT: Mobile Phone; Type: M236

Communication System: GPRS-3Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.7; Conv.F=2.32; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.39$ mho/m; $\epsilon r = 40.75$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 22.0, Liquid temperature ($^{\circ}$ C): 21.3

SATIMO Configuration:

· Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

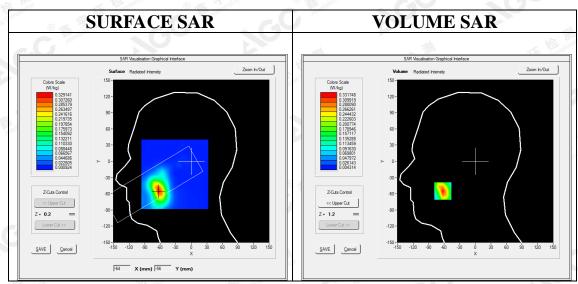
Sensor-Surface: 4mm (Mechanical Surface Detection)

· 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: 2.7)	



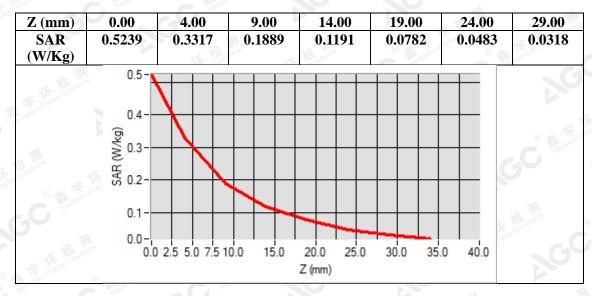
Maximum location: X=-63.00, Y=-55.00 SAR Peak: 0.53 W/kg

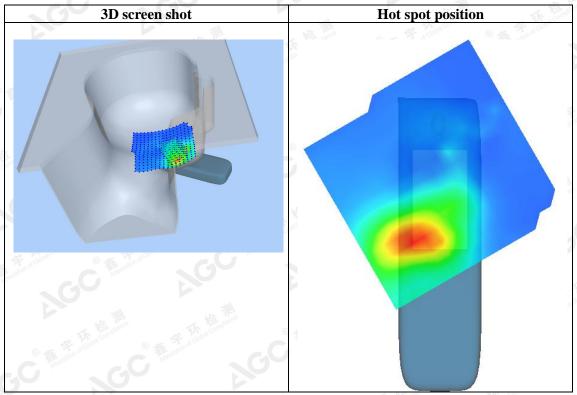
SAR 10g (W/Kg)	0.166653
SAR 1g (W/Kg)	0.312025

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Test Laboratory: AGC Lab Date: Apr. 11,2018

GPRS 1900 Low-Body-Back (3up) DUT: Mobile Phone; Type: M236

Communication System: GPRS-3Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.7; Conv.F=2.39; Frequency: 1850.2 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.47 \text{ mho/m}$; $\epsilon r = 55.04$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 22.0, Liquid temperature ($^{\circ}$ C): 21.5

SATIMO Configuration:

Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

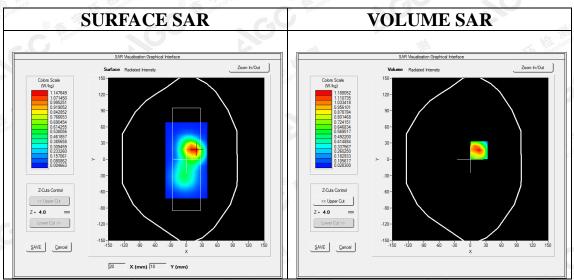
Sensor-Surface: 4mm (Mechanical Surface Detection)

· 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;

sam_direct_droit2_surf8mm.txt		
5x5x7,dx=8mm dy=8mm dz=5mm,Complete		
Validation plane		
Body Back		
PCŚ 1900		
Low & San		
TDMA (Crest factor: 2.7)		



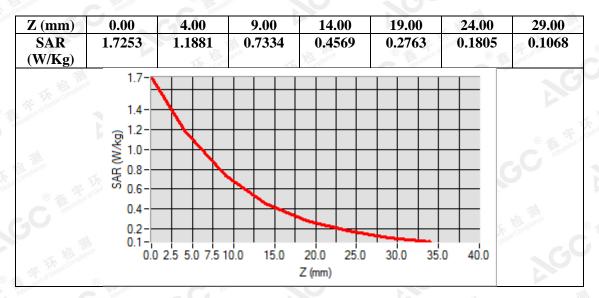
Maximum location: X=17.00, Y=17.00 SAR Peak: 1.74 W/kg

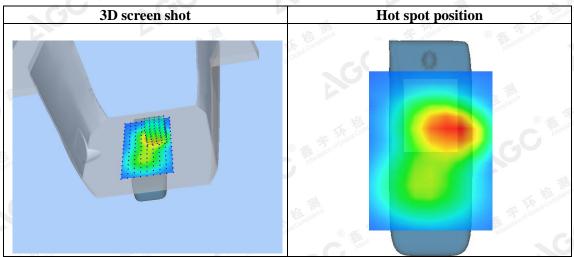
SAR 10g (W/Kg)	0.636286
SAR 1g (W/Kg)	1.099592

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Repeated SAR

Test Laboratory: AGC Lab Date: Apr. 13,2018

GPRS 850 High- Body- Back (4up) - once DUT: Mobile Phone; Type: M236

Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1; Conv.F=1.81; Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.98$ mho/m; $\epsilon r = 54.77$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.8, Liquid temperature ($^{\circ}$ C): 21.5

SATIMO Configuration:

Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

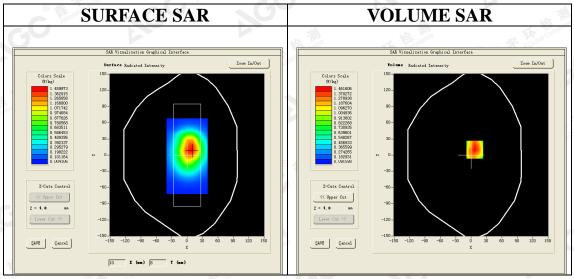
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

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

Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	GSM 850
Channels	High #
Signal	TDMA (Crest factor: 2.0)



Maximum location: X=7.00, Y=10.00 SAR Peak: 1.93 W/kg

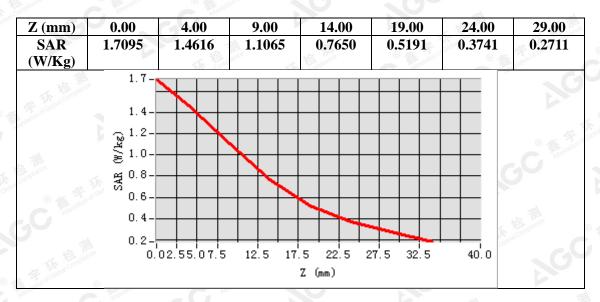
SAR 10g (W/Kg)	0.931748
SAR 1g (W/Kg)	1.384585

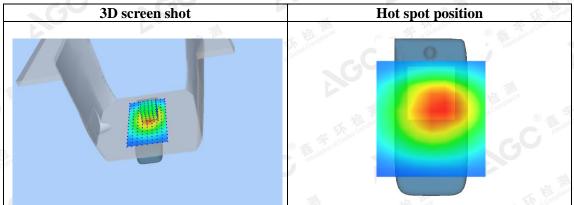
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Test Laboratory: AGC Lab Date: Apr. 13,2018

GPRS 850 High- Body- Back (4up)-twice DUT: Mobile Phone; Type: M236

Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1; Conv.F=1.81; Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.98$ mho/m; $\epsilon r = 54.77$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.8, Liquid temperature ($^{\circ}$ C): 21.5

SATIMO Configuration:

Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

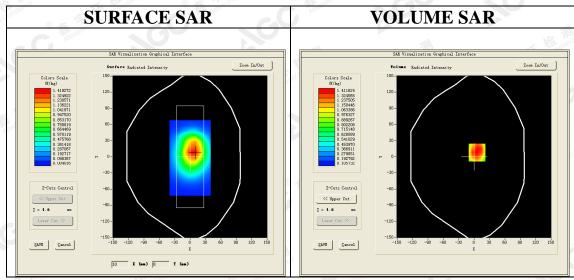
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

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

Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	GSM 850
Channels	High A
Signal	TDMA (Crest factor: 2.0)



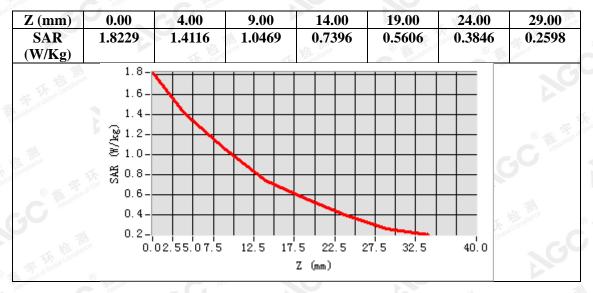
Maximum location: X=6.00, Y=8.00 SAR Peak: 1.95 W/kg

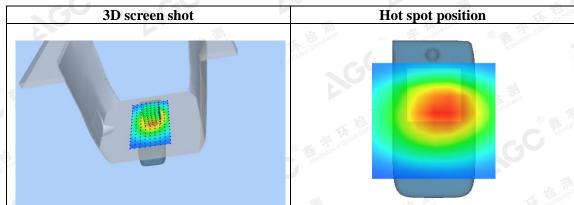
SAR 10g (W/Kg)	0.920213
SAR 1g (W/Kg)	1.373834

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Test Laboratory: AGC Lab Date: Apr. 11,2018

GPRS 1900 Low-Body-Back (3up) DUT: Mobile Phone; Type: M236

Communication System: GPRS-3Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.7; Conv.F=2.39; Frequency: 1850.2 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.47 \text{ mho/m}$; $\epsilon r = 55.04$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 22.0, Liquid temperature ($^{\circ}$ C): 21.5

SATIMO Configuration:

Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

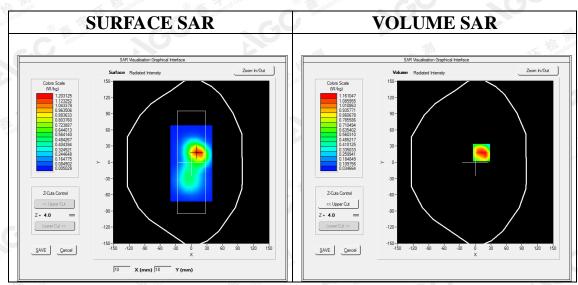
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· 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;

sam_direct_droit2_surf8mm.txt
5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Validation plane
Body Back
PCS 1900
Low & San
TDMA (Crest factor: 2.7)



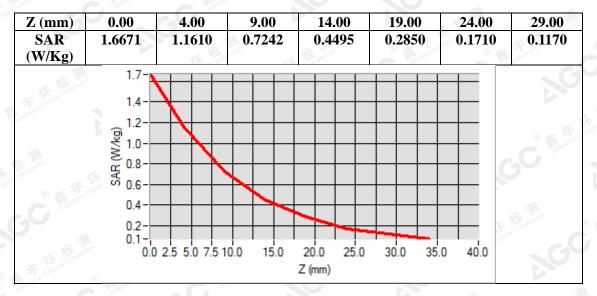
Maximum location: X=12.00, Y=18.00 SAR Peak: 1.76 W/kg

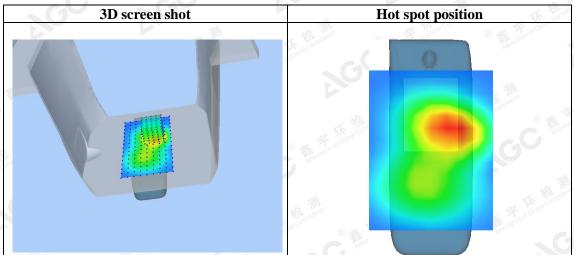
SAR 10g (W/Kg)	0.643437
SAR 1g (W/Kg)	1.106437

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APPENDIX C. TEST SETUP PHOTOGRAPHS

LEFT- CHEEK TOUCH



LEFT-TILT 150



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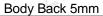
RIGHT-TILT 150



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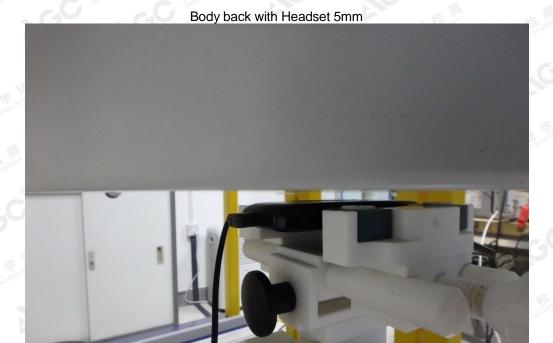
Body Front 5mm

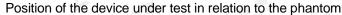


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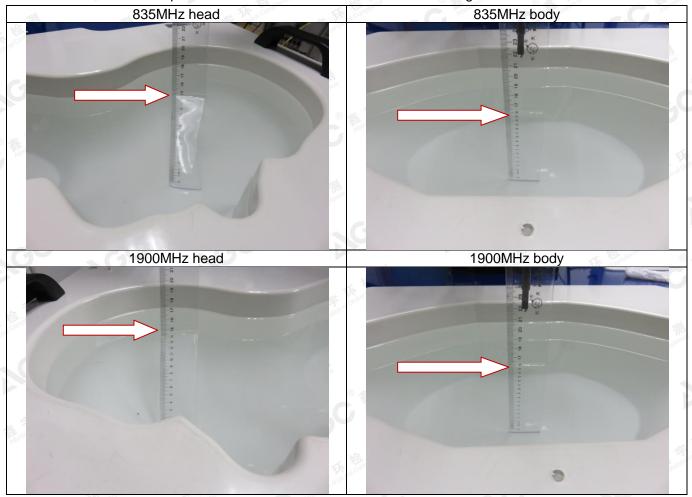
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DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note: The position used in the measurement were according to IEEE 1528-2013



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APPENDIX D. CALIBRATION DATA

Refer to Attached files.

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