

SAR Test Report

Report No.: AGC00770180102FH01

FCC ID : 2AE7RSTKEVO

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Mobile Phone

BRAND NAME : STK

MODEL NAME : EVO

CLIENT : Santok Limited.

DATE OF ISSUE : Jan. 31,2018

IEEE Std. 1528:2013

STANDARD(S) : FCC 47CFR § 2.1093

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
1	V1.0	NO THE STREET OF OR	Jan. 31,2018	Valid	Initial Release

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	Test Report Certification		
Applicant Name	Santok Limited.		
Applicant Address	Santok House, Unit L, Braintree Industrial Estate, Braintree Road, South Ruislip, Middlesex, United Kingdom		
Manufacturer Name	Kingcomm Technology Co., Ltd		
Manufacturer Address	Room C205-208.BC Area.West Sillcon Valley, Bao an Avenue, Shenzhen, China		
Product Designation	Mobile Phone STK		
Brand Name			
Model Name EVO			
Different Description	N/A DC3.7V by battery		
EUT Voltage			
Applicable Standard	IEEE Std. 1528:2013 FCC 47CFR § 2.1093 IEEE/ANSI C95.1:2005		
Test Date	Jan. 25,2018 to Jan. 30,2018		
CC TO NO	Attestation of Global Compliance(Shenzhen) Co., Ltd.		
Performed Location	1- 2 F, Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu Xixiang Street, Bao'an District, Shenzhen, China		
Designation Number	CN5028		
MVLAP LAB CODE	600153-0		
Report Template	AGCRT-US-3G3/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:

Fraguency Band	Highest Rep	SAR Test Limit	
Frequency Band	Head	Body-worn	(W/Kg)
GSM 850	0.193	0.765	100
PCS 1900	0.155	1.007	FL ACOMPHIANCE
UMTS Band II	0.108	0.409	8
UMTS Band V	0.444	1.092	1.6
WIFI 2.4G	0.055	0.069	
Simultaneous Reported SAR	10,	1.225	
SAR Test Result		PASS	bal Compine

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
- KDB 941225 D06 Hotspot Mode v02r01
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02

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2. GENERAL INFORMATION

General Information				
Product Designation	Mobile Phone			
Test Model	EVO TA TO TA TA TO TA TA TO TA TA TA			
Hardware Version	FS280-MB-V0.1			
Software Version	STK_EVO_DS_819_V0.0.2_16012018			
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	GSM850: -1.4dBi; PCS1900: -1.9dBi;			
Max. Average Power	GSM850: 30.74dBm; PCS1900: 28.65dBm			
WCDMA	CO TO TO TO			
Support Band	☐UMTS FDD Band II ☐UMTS FDD Band V ☐UMTS FDD Band I ☐UMTS FDD Band VIII			
HS Type	HSPA(HSUPA/HSDPA)			
TX Frequency Range	WCDMA FDD Band II: 1850-1910MHz; WCDMA FDD Band V: 820-850MHz			
RX Frequency Range	WCDMA FDD Band II: 1930-1990MHz; WCDMA FDD Band V: 869-894MHz			
Release Version	Rel-6			
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK			
Antenna Gain	WCDMA850: -1.5dBi; WCDMA1900:-2.1dBi			
Max. Average Power	Band II: 21.64dBm; Band V: 21.59 dBm			

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EUT Desc	ription	(Continu	ıe)
-----------------	---------	-----------	-----

Bluetooth	THE THE RESERVE OF THE PARTY OF		
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 ⊠π/4-DQPSK ⊠8-DPSK		
Max.Peak Power	4.806dBm		
Antenna Gain	1.02dBi		
WIFI	The state of the s		
WIFI Specification	□802.11a ⊠802.11b ⊠802.11g ⊠802.11n(20) □802.11n(40)		
Operation Frequency	2412~2462MHz		
Avg. Burst Power	11b: 14.66dBm,11g: 11.35dBm,11n(20): 9.53dBm		
Antenna Gain	1.02dBi		
Accessories			
Battery	Brand name: STK Model No.: EVO Voltage and Capacitance: 3.7 V & 1400mAh		
Adapter	Brand name: STK Model No. : HJ-0501000B3-US Input: AC 100-240V, 50/60Hz, 0.15A Output: DC 5V, 1000mA		
Earphone	Brand name: N/A Model No. : N/A		
	ure the average power and Peak power at the same time or testing is end product.		
Dun dund in cooper	Type		

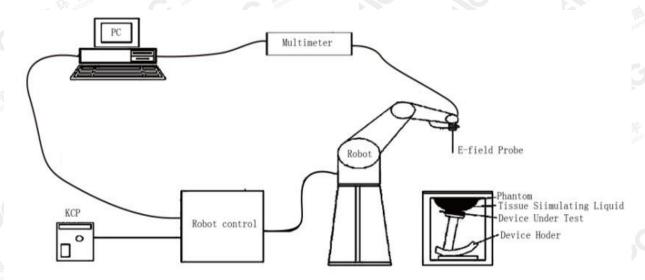
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3. SAR MEASUREMENT SYSTEM

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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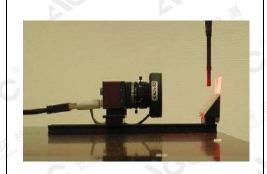
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3.4. Video Positioning System

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.

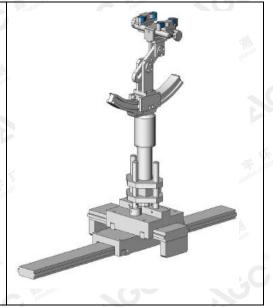


3.5. Device Holder

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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
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

			5W CO CW CW		
Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}			\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm	3 – 4 GHz: ≤ 5 mm [*] 4 – 6 GHz: ≤ 4 mm [*]	
	uniform		≤ 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.

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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

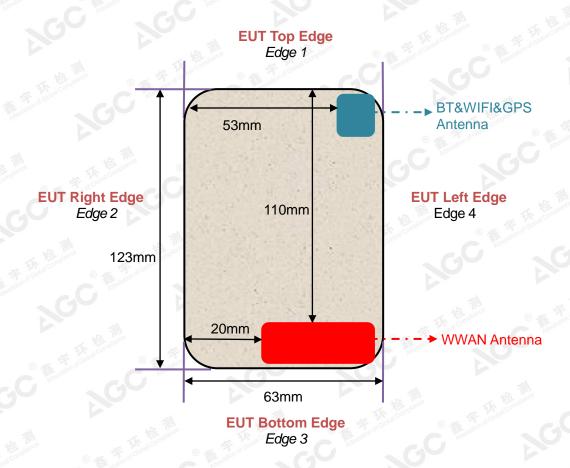
Test Configuration and setting:

The EUT is a model of GSM/WCDMA Portable Mobile Station (MS). It supports GSM/GPRS, WCDMA/HSPA, 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: (the back view)



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For WWAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch	CC M	Yes	· · · · · · · · · · · · · · · · · · ·
Left Tilt		Yes	111
Right Touch		Yes	during the state of the state o
Right Tilt		Yes	0 # 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Body	The Compliant	Altestan	
Back	<25mm	Yes	· · · · · · · · · · · · · · · · · · ·
Front	<25mm	Yes	The state of the s
Hotspot	M M	žķ.	
Back	<25mm	Yes	CO . GO
Front	<25mm	Yes	1
Edge 1 (Top)	110mm	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)	20mm	Yes	Eminator CO CO
Edge 3 (Bottom)	2mm	Yes	
Edge 4 (Left)	2mm	Yes	-till IK Williams I II. as common

For WLAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head	Hon of Global	Attes	
Left Touch		Yes	- E 12 -
Left Tilt		Yes	The state of the s
Right Touch		Yes	
Right Tilt	The Global Control	Yes	
Body	Ariestation	(0)	
Back	<25mm	Yes	111 III II
Front	<25mm	Yes	The state of the s
Hotspot	The Manager	The Compliance	O M. Francisco O M. Marine CO
Back	<25mm	Yes	G G G - B
Front	<25mm	Yes	- all st
Edge 1 (Top)	2mm	Yes	E TO TO THE TOTAL OF THE TOTAL
Edge 2 (Right)	53mm	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)	100mm	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)	2mm	Yes	The second of th

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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

J. I. THE COMPOSITION	Ji tile tiss	u c Silliuid	aurig iiquiu			
Ingredient (% Weight) Frequency (MHz)	Water	Nacl	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	1	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	30.0	20
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97
2450 Body	70	J. 31.	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	h	ead	bo	dy
(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

($\varepsilon r = relative permittivity, \sigma = conductivity and \rho = 1000 kg/m3)$

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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 M	leasurement for 835MHz				
GO "	Fr.	Dielectric Par	Dielectric Parameters (±5%)				
	(MHz)	er 41.5 (39.425-43.575)	δ[s/m] 0.90(0.855-0.945)	Temp [°C]	Test time		
	824.2	42.85	0.88				
Head	826.4	42.29	0.90	lill:	抓		
	835 41.55 836.6 41.23	41.55	0.91	21.3	Jan.		
	836.6	41.23	0.92	21.3	25,2018		
	846.6	40.89	0.93				
® ##	848.8	40.37	0.94		~11		
60	Fr.	Dielectric Par	rameters (±5%)	Tissue	KET WILLOW		
	(MHz)	εr 55.20(52.44-57-96)	δ[s/m]0.97(0.9215-1.0185)	Temp [oC]	Test time		
	824.2	56.53	0.94	G Alle			
Body	826.4	55.98	0.95		-711		
obal @	835	55.47	0.96	21.3	Jan.		
	836.6	54.83	0.97	21.3	25,2018		
	846.6	54.35	0.98	- C	Attestation		
	848.8	53.77	0.99				

	W 2005 1.0V	Tissue Stimulant Me	easurement for 1900MHz		200	
	Fr.	Dielectric Par	ameters (±5%)	Tissue	Conn.	
	(MHz) εr40.00(38.00-42.00)		δ[s/m]1.40(1.33-1.47)		Test time	
	1850.2	41.25	1.35		litic	
Head	1852.4	40.71	1.37	-111	TK Kingliance	
	1880	40.16	1.38	24.0	Jan.	
	1900	39.53	1.40	21.0	30,2018	
	1907.6	38.85	1.42			
Thomphance Compliance	1909.8 38.05		1.44			
	Fr.	Dielectric Par	ameters (±5%)	Tissue	7 30	
	(MHz)	εr53.30(50.635-55.965)	δ[s/m]1.52(1.444-1.596)	Temp [oC]	Test time	
	1850.2	54.85	Parameters (±5%) Tissue Temp [°C] δ[s/m]1.40(1.33-1.47) [°C] 1.35 1.37 1.38 21.0 1.40 1.42 1.44 Tissue Temp Parameters (±5%) Tissue Temp Δ[s/m]1.52(1.444-1.596) Temp			
Body	1852.4	54.26	1.48		-1	
Rifestation of	1880	53.18	1.51	24.2	Jan.	
	1900	52.59	1.53	21.2	30,2018	
	1907.6	51.95	1.54	Allestation		
	1909.8	51.05	1.55			

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2002		Tissue Stimulant M	easurement for 2450MHz			
lin:	Fr.	Dielectric Pa	Tissue	a.C.		
Head	(MHz)	εr39.2(37.24-41.16)	δ[s/m]1.80(1.71-1.89)	[°C]	Test time	
Head	2412	40.85	7.24-41.16) $\delta[s/m]1.80(1.71-1.89)$ Temp [°C] 0.85 1.73 0.06 1.75 9.16 1.79 8.53 1.81 Dielectric Parameters ($\pm 5\%$) Tissue Temp [oC] .065-55.335) $\delta[s/m]1.95(1.8525-2.0475)$ Temp [oC] 4.33 1.87 3.76 1.92 3.11 1.95	Kindliance Milliance		
Head	2437 40.06		1.75	24.2	Jan.	
	2450	39.16	1.79	21.3	27,2018	
	2462	38.53	1.81	CO		
The Lation of Globa	© Fr. June	Dielectric Pa	rameters (±5%)			
	(MHz)	er52.7(50.065-55.335)	δ[s/m]1.95(1.8525-2.0475)	- T	Test time	
Body	2412	54.33	1.87	on of Global	-G	
= - 4 ,y	2437	53.76	1.92	24.2	Jan.	
	2450	53.11	1.95	21.2	27,2018	
	2462	52.37	1.97			

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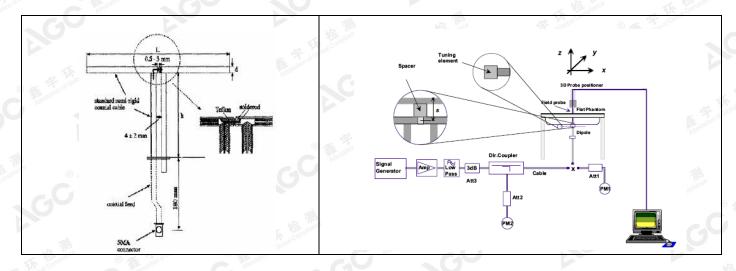
6. SAR SYSTEM CHECK PROCEDURE

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.

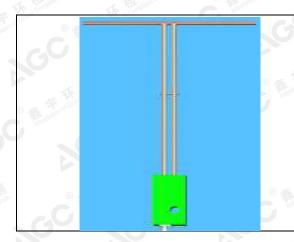


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6.2. SAR System Check 6.2.1. Dipoles



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

ormance	Check a	t 835MHz&1900N	//Hz &2450MHz f	or Head			3.000
it: SN29/	15 DIP 00	8835-383&SN 29/	15 DIP 1G900-3	89& SN 2	29/15DIP	2G450-393	3
	•	(B)	13/10		Tissue Temp.	Test time	
1g	10g	1g 10g		1g	10g	[°C]	
10.04	6.43	9.036-11.044	5.787 -7.073	9.79	6.36	21.3	Jan. 25,2018
41.44	21.33	37.296-45.584	19.197-23.463	39.03	19.66	21.0	Jan. 30,2018
54.53	24.30	49.077-59.983	21.87-26.730	52.36	22.56	21.3	Jan. 27,2018
ormance	Check a	t 835 MHz &1900	MHz & 2450MHz	for Boo	ly		
						Tissue Temp.	Test time
1g	10g	1g	10g	1g	10g	[°C]	(B) Attestation of
9.85	6.45	8.865-10.835	5.805-7.095	9.73	6.26	21.5	Jan. 25,2018
39.38	20.86	35.442-43.318			19.10	21.2	Jan. 30,2018
49.92	23.16	44.928-54.912	20.844-25.476	52.03	22.44	21.2	Jan. 27,2018
	Tar Value(1g 10.04 41.44 54.53 cormance Tar Value(1g 9.85 39.38	Target Value(W/Kg) 1g 10g 10.04 6.43 41.44 21.33 54.53 24.30 cormance Check a Target Value(W/Kg) 1g 10g 9.85 6.45 39.38 20.86	Target Reference Value(W/Kg) (± 1) 19 109 19 10.04 6.43 9.036-11.044 41.44 21.33 37.296-45.584 54.53 24.30 49.077-59.983 Formance Check at 835 MHz &1900 Target Reference Value(W/Kg) (± 1) 19 109 19 9.85 6.45 8.865-10.835 39.38 20.86 35.442-43.318	Target Reference Result Value(W/Kg) (± 10%) 1g 10g 1g 10g 10.04 6.43 9.036-11.044 5.787 -7.073 41.44 21.33 37.296-45.584 19.197-23.463 54.53 24.30 49.077-59.983 21.87-26.730 Tormance Check at 835 MHz &1900MHz & 2450MHz Target Reference Result Value(W/Kg) (± 10%) 1g 10g 1g 9.85 6.45 8.865-10.835 5.805-7.095 39.38 20.86 35.442-43.318 18.774-22.946	It: SN29/15 DIP 0G835-383&SN 29/15 DIP 1G900-389& SN 2 Target Value(W/Kg) Reference Result (± 10%) Te Value (Value) 1g 10g 1g 10g 1g 10.04 6.43 9.036-11.044 5.787 -7.073 9.79 41.44 21.33 37.296-45.584 19.197-23.463 39.03 54.53 24.30 49.077-59.983 21.87-26.730 52.36 Formance Check at 835 MHz &1900MHz & 2450MHz for Book (± 10%) Te Value (W/Kg) Value 1g 10g 1g 10g 1g 9.85 6.45 8.865-10.835 5.805-7.095 9.73 39.38 20.86 35.442-43.318 18.774-22.946 37.88	Target Value(W/Kg) Reference Result (± 10%) Tested Value(W/Kg) 1g 10g 1g 10g 1g 10g 10.04 6.43 9.036-11.044 5.787 -7.073 9.79 6.36 41.44 21.33 37.296-45.584 19.197-23.463 39.03 19.66 54.53 24.30 49.077-59.983 21.87-26.730 52.36 22.56 Formance Check at 835 MHz &1900MHz & 2450MHz for Body Target Value(W/Kg) Reference Result (± 10%) Tested Value(W/Kg) 1g 10g 1g 10g 1g 10g 9.85 6.45 8.865-10.835 5.805-7.095 9.73 6.26 39.38 20.86 35.442-43.318 18.774-22.946 37.88 19.10	Target Value(W/Kg) Reference Result (± 10%) Tested Value(W/Kg) Tissue Tested Value(W/Kg) Tissue Temp. 1g 10g 1g 10g 1g 10g [°C] 10.04 6.43 9.036-11.044 5.787 -7.073 9.79 6.36 21.3 41.44 21.33 37.296-45.584 19.197-23.463 39.03 19.66 21.0 54.53 24.30 49.077-59.983 21.87-26.730 52.36 22.56 21.3 Tormance Check at 835 MHz &1900MHz & 2450MHz for Body Target Value(W/Kg) Reference Result (± 10%) Tested Value(W/Kg) Tissue Tested Value(W/Kg) Temp. [°C] 1g 10g 1g 10g 1g 10g [°C] 9.85 6.45 8.865-10.835 5.805-7.095 9.73 6.26 21.5 39.38 20.86 35.442-43.318 18.774-22.946 37.88 19.10 21.2

Note:

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

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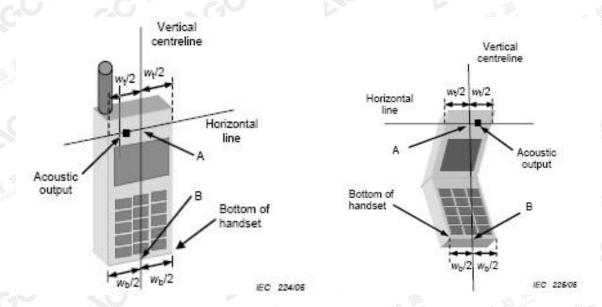
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7. EUT TEST POSITION

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



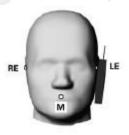
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7.2. Cheek Position

- (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





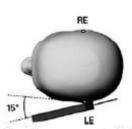


7.3. Tilt Position

- (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.







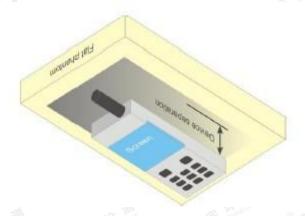
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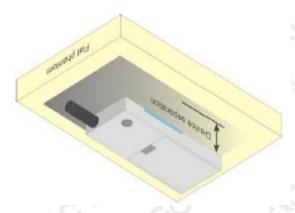


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7.4. Body Worn Position

- (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

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 08/16 EPGO282	Aug. 08,2017	Aug. 07,2018
Phantom	SATIMO	SN_4511_SAM90	Validated. No cal required.	Validated. No ca required.
Liquid	SATIMO	· 下卷 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Validated. No cal required.	Validated. No ca required.
Comm Tester	Agilent-8960	GB46310822	Mar. 02,2017	Mar. 01,2018
Multimeter	Keithley 2000	1188656	Mar. 02,2017	Mar. 01,2018
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	Mar. 02,2017	Mar. 01,2018
Vector Analyzer	Agilent / E4440A	US41421290	Mar. 02,2017	Mar. 01,2018
Network Analyzer	Rhode & Schwarz ZVL6	SN100132	Mar. 02,2017	Mar. 01,2018
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. 02,2017	Mar. 01,2018
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. 02,2017	Mar. 01,2018
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

Measure	ement un	certainty fo	or Dipole	averaged (over 1 grar	n / 10 gran	า.		
a	b	C C	d	e f(d,k)	Gf Alleston	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System		9			all	- 11	A	私	ompliance
Probe calibration	E.2.1	5.831	N	1 板	1	1. A Complete	5.83	5.83	8
Axial Isotropy	E.2.2	0.695	R 🛚 🦸	√3	√0.5	√0.5	0.28	0.28	00
Hemispherical Isotropy	E.2.2	1.045	R	$\sqrt{3}$	√0.5	√0.5	0.43	0.43	00
Boundary effect	E.2.3	1.0	R	√3	1 🦚	1	0.58	0.58	œ
Linearity	E.2.4	0.685	R	√3	1. A Semplian	1 4	0.40	0.40	oo
System detection limits	E.2.4	1.0	R	√3	a long or all	1	0.58	0.58	00
Modulation response	E2.5	3.0	R	√3	1	1	1.73	1.73	00
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	00 (8)
Response Time	E.2.7	0 🗥	R	√3	1 %	1	0	0	00
Integration Time	E.2.8	1.4	R	√3	Altestand	1	0.81	0.81	00
RF ambient conditions-Noise	E.6.1	3.0	R	√3	1	1	1.73	1.73	00
RF ambient conditions-reflections	E.6.1	3.0	R	√3	1,	1	1.73	1.73	00
Probe positioner mechanical tolerance	E.6.2	1.4	R	√3	1 m 1 m 2	I A station of	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	√3	1	1	0.81	0.81	oo
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	œ
Test sample Related	lin:		不	ompliance	The Com	Due	® ## station of G	(0)	Altestali
Test sample positioning	E.4.2	2.6	N	1 3	estation of 1	1-	2.6	2.6	00
Device holder uncertainty	E.4.1	3	N	1	1	1	3	3	œ
Output power variation—SAR drift measurement	E.2.9	5	R	$\sqrt{3}$	1	1, 1	2.89	2.89	œ
SAR scaling	E.6.5	5	R	$\sqrt{3}$	Mance 1	I Jacomp	2.89	2.89	∞
Phantom and tissue parameters	12	M Complie	® 4	tation of Glove	(B) ###	astation of	100		O
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	31	1	2.31	2.31	00
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	五九十二	0.84	1.90	1.60	8
Liquid conductivity measurement	E.3.3	4 1	N	1 %	0.78	0.71	3.12	2.84	М
Liquid permittivity measurement	E.3.3	® 5, ion of C	N	- 1	0.23	0.26	1.15	1.30	М
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	00
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	8
Combined Standard Uncertainty	4 1	V pal Combin	RSS	o la localitation de la constantia del c	Attesto		9.79	9.59	
Expanded Uncertainty (95% Confidence interval)	Attestation of	a.C	K=2	300			19.58	19.18	. 7

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System	cneck und	certainty to	or Dipole	averaged	over 1 gra	m / 10 gran			- P29
a	b	C	d	e f(d,k)	f	g	h cxf/e	c×g/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System		0			To.	- mil		The W	ompliance
Probe calibration drift	E.2.1.3	0.5	N	1 仮	1	1 tompilar	0.50	0.50	00
Axial Isotropy	E.2.2	0.695	R	√3	0	0	0.00	0.00	00
Hemispherical Isotropy	E.2.2	1.045	R	√3	0	0	0.00	0.00	00
Boundary effect	E.2.3	1.0	R	√3	0	0	0.00	0.00	8
Linearity	E.2.4	0.685	R	√3	0	0	0.00	0.00	00
System detection limits	E.2.4	1.0	R	√3 ⊚	0	0	0.00	0.00	00
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	00
Readout Electronics	E.2.6	0.021	N	1	0	0 🗥	0.00	0.00	00
Response Time	E.2.7	0	R	√3	0	0	0.00	0.00	00
Integration Time	E.2.8	1.4	R	√3	0	0	0.00	0.00	00
RF ambient conditions-Noise	E.6.1	3.0	R	√3	0	0	0.00	0.00	00
RF ambient conditions-reflections	E.6.1	3.0	R	√3	0	0	0.00	0.00	00
Probe positioner mechanical tolerance	E.6.2	1.4	R	√3	in in in its in	© #1 Front	0.81	0.81	8
Probe positioning with respect to phantom shell	E.6.3	1.4	R ®	√3	1	1	0.81	0.81	8
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	0	0	0.00	0.00	00
System check source (dipole)	-1111		1000	ompliance	The long	bligg	® 5 gion of G	opo. (B	The steet
Deviation of experimental dipoles	E.6.4	20 4	N	1.0	1 1	1	2	2	00
Input power and SAR drift measurement	8,6.6.4	5	R	$\sqrt{3}$	1	1	2.89	2.89	00
Dipole axis to liquid distance	8,E.6.6	2	R	$\sqrt{3}$	1	1, 1	1.15	1.15	00
Phantom and tissue parameters		The same		Fr 100	Impliance .	The compli		Allestation	
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	da 4	R	√3		alation of 1	2.31	2.31	00
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	oc
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	N
Liquid permittivity measurement	E.3.3	5	N	1 %	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	ox
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	α
Combined Standard Uncertainty			RSS	KI THE	® 15	of Global	5.564	5.205	
Expanded Uncertainty (95% Confidence interval)	THE STATE OF THE S	Ost Combin	K=2	CO Sal Co	G Allesto	-G	11.128	10.410	

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System V	alidation ι	ıncertainty	for Dipo	le average	ed over 1 g	ram / 10 gr	am.		
a	b	C	d	e f(d,k)	o f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (±%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System	1	2.G	Hes						lilli:
Probe calibration	E.2.1	5.831	N	1	1	1 1	5.83	5.83	00
Axial Isotropy	E.2.2	0.695	R	$\sqrt{3}$	plance 1	E Th 1 Compilar	0.40	0.40	00
Hemispherical Isotropy	E.2.2	1.045	R	√3	0	0	0.00	0.00	00
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	8
Linearity	E.2.4	0.685	R	√3	1 1	1	0.40	0.40	00
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	E That Compiler	1 4	0.58	0.58	8
Modulation response	E2.5	3.0	R Complete	$\sqrt{3}$	Jacob O	0	0.00	0.00	8
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	00
Response Time	E.2.7	0.0	R	√3	0	0	0.00	0.00	00
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0 %	Clops 0	0.00	0.00	00
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1 Alestan	1	1.73	1.73	8
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	00
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1 3	0.81	0.81	00
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	impliance 1	® All station of	0.81	0.81	8
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	10	1	1.33	1.33	00
System check source (dipole)				-TILL	खेंद्र.	TIME:	_ F	Compliance	3
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	npliance 1	To Took of	1	5.00	5.00	8
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	00
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	00
Phantom and tissue parameters		- A		. حالم	:IIII	松江	^{3uce}	To Global	0-
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	R	$\sqrt{3}$	10 %	Final Co	2.31	2.31	00
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	59	0.84	1.90	1.60	00
Liquid conductivity measurement	E.3.3	4.0	N	1	0.78	0.71	3.12	2.84	М
Liquid permittivity measurement	E.3.3	5.0	N.	1	0.23	0.26	1.15	1.30	М
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	00
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	00
Combined Standard Uncertainty		- All	RSS	LID:		The Compliance	9.718	9.517	
Expanded Uncertainty (95% Confidence interval)	E)	KET Millance	K=2	Dal Compliance	® Martestal	or Glos	19.437	19.035	

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11. CONDUCTED POWER MEASUREMENT GSM BAND

GSM BAND	-dil - iopal Co.	El al Comme	Alle Alles		
Mode Frequency(MHz)		Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)	
Maximum Power <1	> 0	7111	Mir.	The Compliance	
GU	824.2	30.58	-9 10 miles	21.58	
GSM 850	836.6	30.74	-9	22.74	
EX Compliant	848.8	30.59	-9	22.59	
GPRS 850	824.2	30.69	-9	22.69	
(1 Slot)	836.6	30.72	-9	22.74	
(1000)	848.8	30.68	-9 # 300 miles	22.68	
GPRS 850	824.2	27.10	-6	21.10	
(2 Slot)	836.6	27.03	-6	21.03	
(2 0101)	848.8	26.88	-6	20.88	
	824.2	25.42	-4.26	21.16	
GPRS 850 (3 Slot)	836.6	25.33	-4.26	21.07	
(3 3101)	848.8	25.22	-4.26	20.96	
GPRS 850 (4 Slot)	824.2	24.52	-3	21.52	
	836.6	24.71	-3	21.71	
	848.8	24.48	-3	21.48	
Maximum Power <2	> , 1	The Company of the Copy	C Allesta	-0	
The Compliance	824.2	30.48	-9	21.48	
GSM 850	836.6	30.72	-9	21.72	
	848.8	30.49	-9	21.49	
ODDO 050	824.2	30.55	Florid Com -9 @	21.55	
GPRS 850 (1 Slot)	836.6	30.66	-9 - Au	21.66	
(I Giot)	848.8	30.53	-9	21.53	
CDDC 050	824.2	26.96	-6	20.96	
GPRS 850 (2 Slot)	836.6	26.93	-6	20.93	
(2 5101)	848.8	26.76	-6	20.76	
0000 050	824.2	25.33	-4.26	21.07	
GPRS 850 (3 Slot)	836.6	25.26	-4.26	21.00	
(3 3101)	848.8	25.13	-4.26	20.87	
2772	824.2	24.46	-3 # ¹ / ₁	21.46	
GPRS 850	836.6	24.56	-3	21.56	
(4 Slot)	848.8	24.33	-3	21.33	

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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	3 (8) Francisco	@ Francisco	0 20	- CO
obal Communication	1850.2	28.60	-9	19.60
PCS1900	1880	28.65	-9	19.65
60	1909.8	28.15	-9 to 1000	19.15
GPRS1900	1850.2	28.46	-9	19.46
(1 Slot)	1880	28.57	-9	19.57
() Olot)	1909.8	28.34	-9	19.34
GPRS1900	1850.2	25.71	-6 _{**}	19.71
(2 Slot)	1880	25.50	The Thomas -6	19.50
(2 300)	1909.8	25.47	-6 American	19.47
ODD04000	1850.2	23.82	-4.26	19.56
GPRS1900 (3 Slot)	1880	23.89	-4.26	19.63
(3 3101)	1909.8	23.96	-4.26	19.70
GPRS1900 (4 Slot)	1850.2	23.23	e -3	20.23
	1880	23.07	-3	20.07
	1909.8	23.02	-3	20.02
Maximum Power <2	> 60		恒	The Sound
60	1850.2	28.48	-9 4	19.48
PCS1900	1880	28.55	-9	19.55
	1909.8	28.09	-9	19.09
OPP04000	1850.2	28.33	-9	19.33
GPRS1900 (1 Slot)	1880	28.46	1 4-9	19.46
(1300)	1909.8	28.23	-9 ®	19.23
00004000	1850.2	25.56	Jahor of Atte	19.56
GPRS1900 (2 Slot)	1880	25.33	-6	19.33
(2 3101)	1909.8	25.36	-6	19.36
000001000	1850.2	23.73	-4.26	19.47
GPRS1900 (3 Slot)	1880	23.76	-4.26	19.50
(3 3101)	1909.8	23.85	-4.26	19.59
K Compliance @	1850.2	23.21	-3	20.21
GPRS1900	1880	23.05	3 −3	20.05
(4 Slot)	1909.8	22.90	The Manufacture -3	19.90

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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UMTS BAND HSDPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- •The RF path losses were compensated into the measurements.
- ·A call was established between EUT and Based Station with following setting:
- (1) Set Gain Factors(β c and β d) parameters set according to each
- (2) Set RMC 12.2Kbps+HSDPA mode.
- (3) Set Cell Power=-86dBm
- (4) Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
- (5) Select HSDPA Uplink Parameters
- (6) Set Delta ACK, Delta NACK and Delta CQI=8
- (7) Set Ack Nack Repetition Factor to 3
- (8) Set CQI Feedback Cycle (k) to 4ms
- (9) Set CQI Repetition Factor to 2
- (10) Power Ctrl Mode=All Up bits
- ·The transmitted maximum output power was recorded.

Table C.10.2.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	βc (Note5)	βd	βd (SF)	βc/βd	βHS (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
Attestation 1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15(Note 4)	15/15(Note 4)	64	12/15(Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: \triangle ACK, \triangle NACK and \triangle CQI = 30/15 with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause

5.13.1AA, \triangle ACK and \triangle NACK = 30/15 with β_{hs} = 30/15 * β_c , and \triangle CQI = 24/15 with β_{hs} = 24/15 * β_c .

Note 3: CM = 1 for $\beta c/\beta d$ =12/15, hs/ c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the c/d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to c = 11/15 and d = 15/15.

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HSUPA Setup Configuration:

- · The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- · A call was established between EUT and Base Station with following setting *:
- (1) Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
- (2) Set the Gain Factors (βc and βd) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
- (3) Set Cell Power = -86 dBm
- (4) Set Channel Type = 12.2k + HSPA
- (5) Set UE Target Power
- (6) Power Ctrl Mode= Alternating bits
- (7) Set and observe the E-TFCI
- (8) Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- · The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub- test	βς	βd	βd (SF)	βc/βd	βHS (Note 1)	βес	βed (Note 4) (Note 5)	βed (SF)	βed (Code s)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TF CI
1º	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/22 5	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	The Marie	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	βed1: 47/15 βed2: 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	S- 71	_	5/15	5/15	47/15	4	13	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, \triangle ACK, \triangle NACK and \triangle CQI = 30/15 with β_{hs} = 30/15 * β_c . For sub-test 5, \triangle ACK, \triangle NACK and \triangle CQI = 5/15 with β_{hs} = 5/15 * β_c .

Note 2: CM = 1 for $\beta c/\beta d$ =12/15, hs/ c=24/15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the c/d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to c = 10/15 and d = 15/15.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: Bed cannot be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

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UMTS BAND II

Mode	Frequency	Avg. Burst Power
Wode	(MHz)	(dBm)
WCDMA 1900	1852.4	21.35
RMC	1880	21.31
RIVIC	1907.6	21.51
WCDMA 1000	1852.4	21.15
WCDMA 1900	1880	21.57
AMR	1907.6	21.64
LIODDA	1852.4	20.84
HSDPA	1880	21.16
Subtest 1	1907.6	20.42
The second of th	1852.4	20.65
HSDPA	1880	21.19
Subtest 2	1907.6	20.79
The state of the s	1852.4	20.83
HSDPA	1880	20.66
Subtest 3	1907.6	20.98
© Figure of Co	1852.4	21.08
HSDPA	1880	20.42
Subtest 4	1907.6	20.62
TE TENERO SE TEN	1852.4	20.29
HSUPA	1880	20.70
Subtest 1	1907.6	20.37
	1852.4	20.86
HSUPA	1880	21.12
Subtest 2	1907.6	20.71
- ***c.C	1852.4	20.64
HSUPA	1880	20.77
Subtest 3	1907.6	20.71
All Comments of the Comments o	1852.4	21.04
HSUPA	1880	20.72
Subtest 4	1907.6	21.02
:11	1852.4	20.41
HSUPA	1880	21.02
Subtest 5	1907.6	20.33

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UMTS BAND V

ITS BAND V	Frequency	Avg. Burst Power
Mode	(MHz)	(dBm)
	826.4	21.13
WCDMA 850	836.6	21.45
RMC	846.6	21.23
	826.4	21.59
WCDMA 850	836.6	20.78
AMR	846.6	21.46
and the state of t	826.4	20.53
HSDPA	836.6	20.58
Subtest 1	846.6	20.53
The comment of the comment	826.4	20.46
HSDPA	836.6	20.17
Subtest 2	846.6	20.59
HODDA	826.4	20.79
HSDPA	836.6	20.75
Subtest 3	846.6	20.23
	826.4	20.63
HSDPA	836.6	20.46
Subtest 4	846.6	20.76
A HOURA OF THE STATE OF THE STA	826.4	20.70
HSUPA	836.6	20.83
Subtest 1	846.6	20.17
LIQUIDA	826.4	20.50
HSUPA	836.6	20.42
Subtest 2	846.6	20.50
S STATE LIQUID S STATE OF STAT	826.4	20.21
HSUPA	836.6	20.48
Subtest 3	846.6	20.46
LICUIDA TOTAL	826.4	20.76
HSUPA	836.6	20.50
Subtest 4	846.6	20.03
LICLIDA	826.4	20.51
HSUPA	836.6	20.90
Subtest 5	846.6	20.45

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

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

		75 A 20 C
UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for β_c/β_d =12/15, β_{hs}/β_c =24/15.For all α	other combinations of DF	PDCH, DPCCH, HS-DPCCH,
E-DPDCH and E-DPCCH the MPR is based on the r	relative CM difference.	

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

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

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

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

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WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
THE TALL THE	8 Paradado	4 01	2412	14.48
802.11b	1 Milestania	06	2437	14.56
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	11	2462	14.66
-C		01	2412	11.15
802.11g	6	06	2437	11.21
	The Market Co.	19 Marahan or	2462	11.35
E COOPE OF THE STATE OF THE STA	of Global	01	2412	9.13
802.11n(20)	6.5	06	2437	9.22
		.11	2462	9.53

Bluetooth_ V 2.1+EDR

Modulation Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
0	0	2402	2.840
GFSK	39	2441	2.827
	78	2480	3.710
Compliance That Com	O Maria de la companya de la company	2402	3.837
π /4-DQPSK	39	2441	3.735
	78	2480	4.060
	0	2402	4.285
8-DPSK	39	2441	4.040
	78	2480	4.806

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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 5mm from the phantom, and 4 Edges SAR was performed with the device 10mm 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.
- 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.
- 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.
- 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 resu

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12.1.3. Test Result

SAR MEASURE	MENT								
Depth of Liquid (cm):>15			Relative	Humidity	/ (%): 50.5			
Product: Mobile	Phone								
Test Mode: GSM	1850 with GMSK	modul	ation						
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 Compliance	- C	Altestalle		estation	-C Attes	10		
Left Cheek	voice	190	836.6	-0.82	0.193	30.74	30.74	0.193	1.6
Left Tilt	voice	190	836.6	0.52	0.152	30.74	30.74	0.152	1.6
Right Cheek	voice	190	836.6	-0.91	0.172	30.74	30.74	0.172	1.6
Right Tilt	voice	190	836.6	0.62	0.140	30.74	30.74	0.140	1.6
Body back	voice	190	836.6	0.66	0.765	30.74	30.74	0.765	1.6
Body front	voice	190	836.6	1.62	0.200	30.74	30.74	0.200	1.6
					:71111	4	K Kinpliance	* TV Complian	(8)
Left Cheek	GPRS-1 slot	190	836.6	-0.92	0.165	30.72	30.72	0.165	1.6
Left Tilt	GPRS-1 slot	190	836.6	-0.66	0.137	30.72	30.72	0.137	1.6
Right Cheek	GPRS-1 slot	190	836.6	0.92	0.167	30.72	30.72	0.167	1.6
Right Tilt	GPRS-1 slot	190	836.6	1.65	0.125	30.72	30.72	0.125	1.6
Body back	GPRS-1 slot	190	836.6	0.92	0.686	30.72	30.72	0.686	1.6
Body front	GPRS-1 slot	190	836.6	-0.63	0.188	30.72	30.72	0.188	1.6
Edge 2(Right)	GPRS-1 slot	190	836.6	1.20	0.186	30.72	30.72	0.186	1.6
Edge 3(Bottom)	GPRS-1 slot	190	836.6	1.99	0.064	30.72	30.72	0.064	1.6
Edge 4(Left)	GPRS-1 slot	190	836.6	-0.66	0.186	30.72	30.72	0.186	1.6
SIM 2 Card		-all		不管	mpliance	The Manual Compilar	© 15th	of Globa	® And station
Left Cheek	voice	190	836.6	-0.93	0.187	30.74	30.72	0.188	1.6
Body back	voice	190	836.6	-1.63	0.751	30.74	30.72	0.754	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.
- •The test separation for Edge is 10mm of all above table.

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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	- FILE - 7.		To of Global	0 =	F Global Co.	(8) Am and	of Globs C	And	
Left Cheek	voice	661	1880.0	-0.82	0.124	28.65	28.65	0.124	1.6
Left Tilt	voice	661	1880.0	1.56	0.023	28.65	28.65	0.023	1.6
Right Cheek	voice	661	1880.0	-0.92	0.084	28.65	28.65	0.084	1.6
Right Tilt	voice	661	1880.0	0.63	0.012	28.65	28.65	0.012	1.6
Body back	voice	661	1880.0	-0.62	0.773	28.65	28.65	0.773	1.6
Body front	voice	661	1880.0	0.62	0.402	28.65	28.65	0.402	1.6
20	-C Mesu						litte:	THE SALE	
Left Cheek	GPRS-4 slot	661	1880.0	-0.95	0.142	23.23 <	23.07	0.147	1.6
Left Tilt	GPRS-4 slot	661	1880.0	1.63	0.026	23.23	23.07	0.027	1.6
Right Cheek	GPRS-4 slot	661	1880.0	1.85	0.149	23.23	23.07	0.155	1.6
Right Tilt	GPRS-4 slot	661	1880.0	0.52	0.020	23.23	23.07	0.021	1.6
Body back	GPRS-4 slot	512	1850.2	-0.63	1.007	23.23	23.23	1.007	1.6
Body back	GPRS-4 slot	661	1880.0	1.99	0.877	23.23	23.07	0.910	1.6
Body back	GPRS-4 slot	810	1909.8	0.53	0.787	23.23	23.02	0.826	1.6
Body front	GPRS-4 slot	661°	1880.0	-1.25	0.539	23.23	23.07	0.559	1.6
Edge 2(Right)	GPRS-4 slot	661	1880.0	0.59	0.050	23.23	23.07	0.052	1.6
Edge 3(Bottom)	GPRS-4 slot	661	1880.0	0.52	0.406	23.23	23.07	0.421	1.6
Edge 4(Left)	GPRS-4 slot	661	1880.0	-0.58	0.043	23.23	23.07	0.045	1.6
SIM 2 Card	151 July	Compliance	® 4	ation of Globa	® %	estation of	CC Alle	- C1	
Right Cheek	GPRS-4 slot	661	1880.0	-0.59	0.147	23.23	23.05	0.153	1.6
Body back	GPRS-4 slot	512	1850.2	-1.23	0.999	23.23	23.21	1.004	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.

•The test separation for Edge is 10mm of all above table.

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SAR MEASUREMENT

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

Product: Mobile Phone

Test Mode: WCDMA Band II with QPSK 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)
Left Cheek	RMC 12.2kbps	9400	1880	-0.82	0.073	21.64	21.31	0.079	1.6
Left Tilt	RMC 12.2kbps	9400	1880	0.52	0.014	21.64	21.31	0.015	1.6
Right Cheek	RMC 12.2kbps	9400	1880	-0.96	0.100	21.64	21.31	0.108	1.6
Right Tilt	RMC 12.2kbps	9400	1880	0.62	0.016	21.64	21.31	0.017	1.6
Body back	RMC 12.2kbps	9400	1880	1.93	0.379	21.64	21.31	0.409	1.6
Body front	RMC 12.2kbps	9400	1880	-0.62	0.158	21.64	21.31	0.170	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	0.05	0.008	21.64	21.31	0.009	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	0.96	0.111	21.64	21.31	0.120	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	0.63	0.007	21.64	21.31	0.008	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.
- •The test separation for Edge is 10mm of all above table.

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SAR MEASUREMENT

Depth of Liquid (cm):>15 Relative Humidity (%): 50.5

Product: Mobile Phone

Test Mode: WCDMA Band V with QPSK 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)
Left Cheek	RMC 12.2kbps	4183	836.6	-0.73	0.424	21.59	21.45	0.438	1.6
Left Tilt	RMC 12.2kbps	4183	836.6	1.56	0.306	21.59	21.45	0.316	1.6
Right Cheek	RMC 12.2kbps	4183	836.6	0.82	0.430	21.59	21.45	0.444	1.6
Right Tilt	RMC 12.2kbps	4183	836.6	-0.53	0.323	21.59	21.45	0.334	1.6
Body back	RMC 12.2kbps	4132	826.4	1.83	0.977	21.59	21.13	1.086	1.6
Body back	RMC 12.2kbps	4183	836.6	0.53	1.057	21.59	21.45	1.092	1.6
Body back	RMC 12.2kbps	4233	846.6	1.55	0.926	21.59	21.23	1.006	1.6
Body front	RMC 12.2kbps	4183	836.6	0.52	0.489	21.59	21.45	0.505	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.6	1.66	0.371	21.59	21.45	0.383	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.6	-0.53	0.148	21.59	21.45	0.153	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.6	1.86	0.513	21.59	21.45	0.530	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.
- •The test separation for Edge is 10mm of all above table.

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0	SAR MEASUREMENT					
	Depth of Liquid (cm):>15	Relative I	Humidity (%): 50.1		
	Product: Mobile Phone					
4	Test Mode:802.11b					
				May		

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	-0.95	0.030	14.66	14.56	0.031	1.6
Left Tilt	DTS	6	2437	0.56	0.014	14.66	14.56	0.014	1.6
Right Cheek	DTS	6	2437	1.85	0.054	14.66	14.56	0.055	1.6
Right Tilt	DTS	6	2437	-0.63	0.039	14.66	14.56	0.040	1.6
Body back	DTS	6	2437	1.96	0.067	14.66	14.56	0.069	1.6
Body front	DTS	6	2437	0.66	0.023	14.66	14.56	0.024	1.6
Edge 1 (Top)	DTS	6	2437	-0.91	0.012	14.66	14.56	0.012	1.6
Edge 4(Left)	DTS	6	2437	1.61	0.026	14.66	14.56	0.027	1.6

Note:

- 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 5mm of all above table.
- •The test separation for Edge is 10mm of all above table.

Repeated SA	AR										
Product: Mob	Product: Mobile Phone										
Test Mode: P	Test Mode: PCS1900&WCDMA Band V										
Position	Position Mode Ch. Fr. (MHz) Power Drift $(<\pm5\%)$ Ch. (MHz) Power Drift $(<\pm5\%)$ Ch. (MHz) Power Drift $(<\pm5\%)$ Power Drift $(<\pm5$										
Body back	GPRS-4 slot	512	1850.2	0.06	0.958				-	1.6	
Body back	RMC 12.2kbps	4183	836.6	-0.32	1.031		111		- Tr	1.6	

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Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

NO	Simultaneous state		Portable Handse	et
NO	Simultaneous state	Head	Body-worn	Hotspot
The Topla	GSM(voice)+WLAN 2.4GHz (data)	Yes	Yes	-
2	WCDMA(voice)+WLAN 2.4GHz (data)	Yes	Yes	Kapilance Mark
3	GSM(voice)+Bluetooth(data)	- M	Yes	F of Global -
4	WCDMA(voice)+Bluetooth(data)	万	Yes	C
5	GSM (Data) + Bluetooth(data)	- Attestation	Yes	Yes
6	GSM (Data) + WLAN 2.4GHz (data)	Yes	Yes	Yes
7	WCDMA (Data) + Bluetooth(data)		Yes	Yes
8	WCDMA (Data) + WLAN 2.4GHz (data)	Yes	Yes	Yes

NOTE

- 1. WIFI 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. 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.
- 5. 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.

- 6. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- 7. 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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8. 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

Estima	ated SAR	Max Power incl		Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW	Distance (IIIIII)	(VV/Kg)
S A Lation of Glob	Head	5	3.162	0	0.133
BT.	Pody	E	3.162	1 5	0.133
	Body	5	3.102	10	0.066

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GSM 850:

DE Evenoure	Test	Simultaneo	ous Transmission	on Scenario	Σ1-g SAR	SPLSR
RF Exposure Conditions	Position	GSM 850	WI-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)
bal Compile	Left Touch	0.193	0.031		0.224	No
Head	Left Tilt	0.152	0.014		0.166	No
(voice)	Right Touch	0.172	0.055		0.227	No
	Right Tilt	0.140	0.040		0.180	No
Th Kill Compliance	Rear	0.765	0.069		0.834	No
Body-worn	Rear	0.765		0.133	0.898	No
(voice)	Front	0.200	0.024		0.224	No
	Front	0.200		0.133	0.333	No
	Left Touch	0.165	0.031		0.196	No
Head	Left Tilt	0.137	0.014		0.151	No
(Data)	Right Touch	0.167	0.055		0.222	- No
GO .	Right Tilt	0.125	0.040		0.165	No
	Door	0.686		0.133	0.819	No
Body-worn	Rear	0.686	0.069		0.755	No
(Data) Body-worn	Front	0.188		0.133	0.321	No
	FIONT	0.188	0.024		0.212	No
	Edge 4	0.186	0.027		0.213	No
(Hotspot)	Edge 4	0.186		0.066	0.252	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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PCS 1900:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
		PCS 1900	WI-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)
Head	Left Touch	0.124	0.031		0.155	No
	Left Tilt	0.023	0.014		0.037	No
(voice)	Right Touch	0.084	0.055		0.139	No
	Right Tilt	0.012	0.040		0.052	No
EK Compliance	DE Amplianos	0.773	0.069		0.842	No
Body-worn	Rear	0.773		0.133	0.906	No
(voice)	Front	0.402	0.024		0.426	No "
		0.402		0.133	0.535	No
	Left Touch	0.147	0.031		0.178	No
Head	Left Tilt	0.027	0.014		0.041	No
(Data)	Right Touch	0.155	0.055		0.210	- No
GO .	Right Tilt	0.021	0.040		0.061	No
Body-worn (Data)	D	1.007		0.133	1.140	No
	Rear	1.007	0.069		1.076	No
	Front	0.559		0.133	0.692	No
	FIONT	0.559	0.024		0.583	No
Body-worn	Edge 4	0.045	0.027		0.072	No
(Hotspot)	Edge 4	0.045		0.066	0.111	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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WCDMA Band II:

RF Exposure Conditions	Test	Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
	Position	WCDMA Band II	Wi-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)
bold Compile	Left Touch	0.079	0.031		0.110	No
® # station of Cl	Left Tilt	0.015	0.014		0.029	No
Head	Right Touch	0.108	0.055		0.163	No
	Right Tilt	0.017	0.040		0.057	No
TA Compliance	Rear	0.409	0.069		0.478	No
	Front	0.170	0.024		0.194	No
D - d	Edge 4	0.008	0.027		0.035	No
Body-worn	Rear	0.409		0.133	0.542	No
	Front	0.170		0.133	0.303	No
	Edge 4	0.008		0.066	0.074	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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WCDMA Band V:

RF Exposure Conditions	Test	Simultaneous Transmission Scenario			Σ1-g SAR	SPLSR
	Position	WCDMA Band V	Wi-Fi DTS Band	Bluetooth	(W/Kg)	(Yes/No)
bal Complie	Left Touch	0.438	0.031		0.469	No
© Fallon of GI	Left Tilt	0.316	0.014		0.330	No
Head	Right Touch	0.444	0.055		0.499	No
	Right Tilt	0.334	0.040		0.374	No
Body-worn	Rear	1.092	0.069		1.161	No
	Front	0.505	0.024		0.529	No
	Edge 4	0.530	0.027		0.557	No
	Rear	1.092		0.133	1.225	No
	Front	0.505		0.133	0.638	No
	Edge 4	0.530		0.066	0.596	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: Jan. 25,2018

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; $\epsilon r = 41.55$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ($^{\circ}$):21.9, Liquid temperature ($^{\circ}$): 21.3

SATIMO Configuration

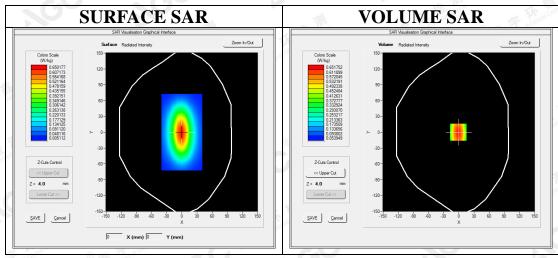
· Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

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

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

Configuration/System Check 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: 0.86 W/kg

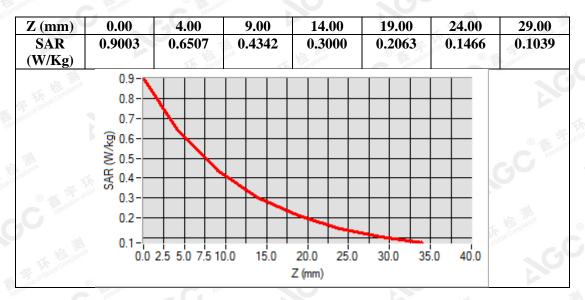
SAR 10g (W/Kg)	0.401025
SAR 1g (W/Kg)	0.617559

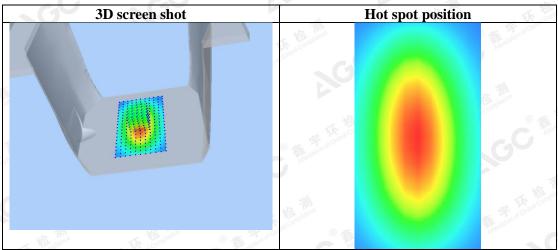
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Test Laboratory: AGC Lab System Check Body 835 MHz

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; $\sigma = 0.96$ mho/m; $\epsilon = 55.47$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ($^{\circ}$):21.9, Liquid temperature ($^{\circ}$): 21.5

SATIMO Configuration

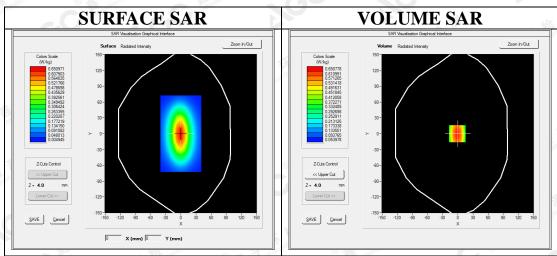
Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

Configuration/System Check 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



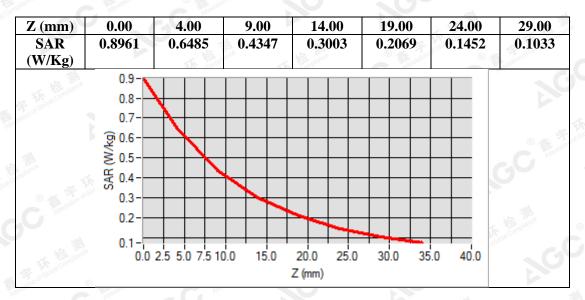
Maximum location: X=-1.00, Y=1.00 SAR Peak: 0.83 W/kg

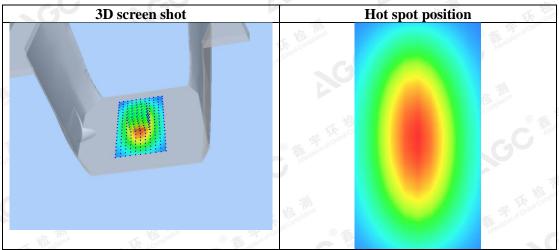
SAR 10g (W/Kg)	0.395120	
SAR 1g (W/Kg)	0.613953	

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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; $\sigma = 1.40 \text{ mho/m}$; $\epsilon = 39.53$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ($^{\circ}$):21.5, Liquid temperature ($^{\circ}$): 21.0

SATIMO Configuration:

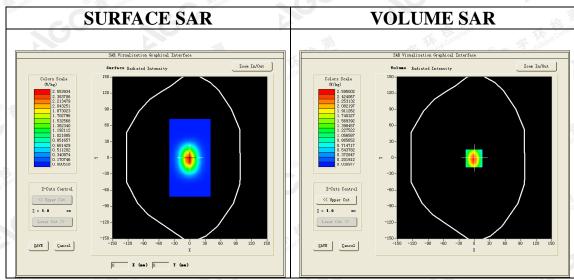
Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/System Check 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



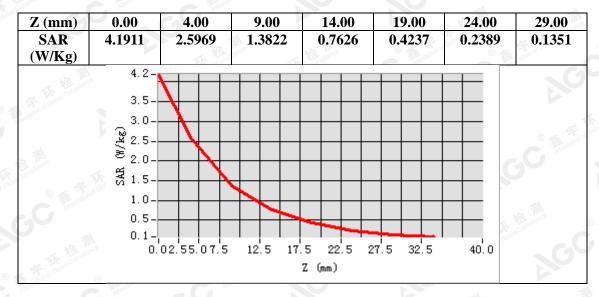
Maximum location: X=-1.00, Y=-0.00 SAR Peak: 4.23 W/kg

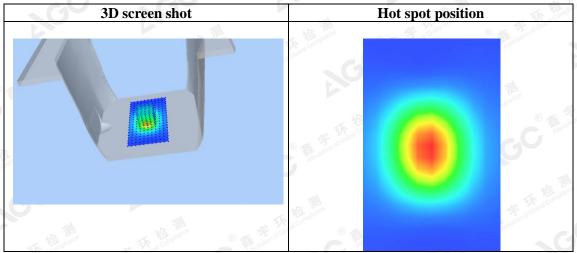
SAR 10g (W/Kg)	1.240539
SAR 1g (W/Kg)	2.462442

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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; $\sigma = 1.53 \text{mho/m}$; $\epsilon = 52.59$; $\epsilon = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ($^{\circ}$):21.5, Liquid temperature ($^{\circ}$): 21.2

SATIMO Configuration:

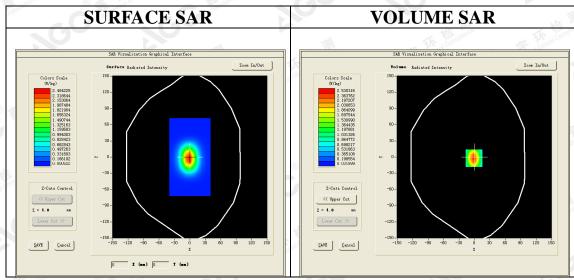
Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

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

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/System Check 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=-2.00, Y=-2.00 SAR Peak: 4.08 W/kg

S12212 0W11	1100 111-8
SAR 10g (W/Kg)	1.205310
SAR 1g (W/Kg)	2.389937

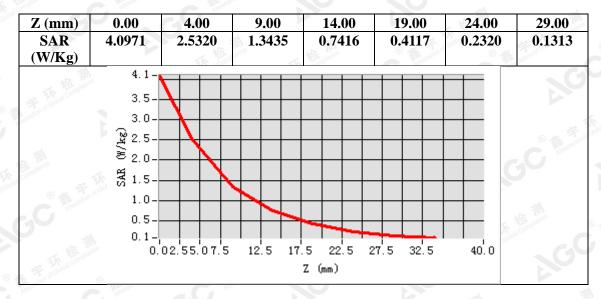
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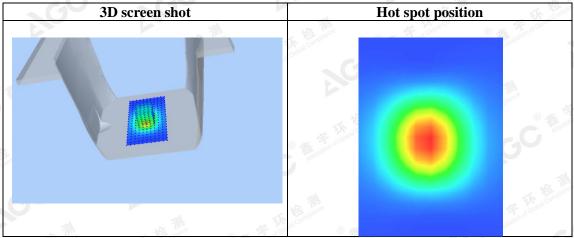
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Test Laboratory: AGC Lab System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.52 Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.79$ mho/m; $\epsilon r = 39.16$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ($^{\circ}$ C):21.7, Liquid temperature ($^{\circ}$ C): 21.3

SATIMO Configuration

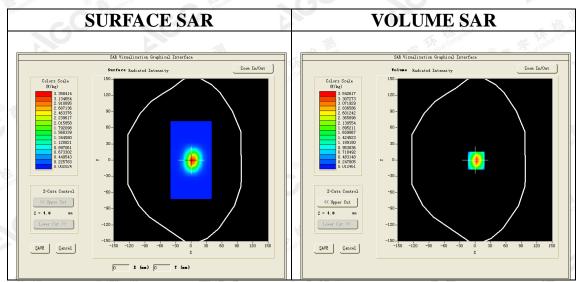
· Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4 02 32

Configuration/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



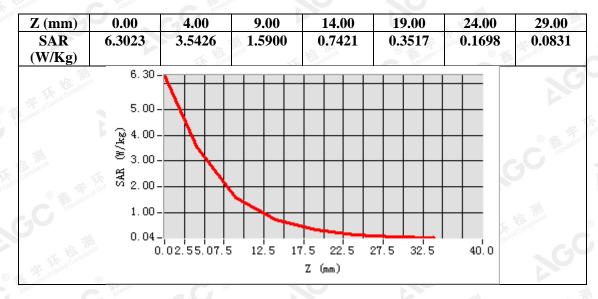
Maximum location: X=2.00, Y=-1.00 SAR Peak: 6.26 W/kg

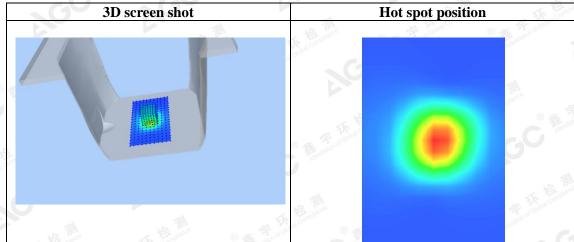
SAR 10g (W/Kg)	1.423684
SAR 1g (W/Kg)	3.303508

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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=2.58 Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.95$ mho/m; $\epsilon r = 53.11$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):21.7, Liquid temperature (°C): 21.2

SATIMO Configuration

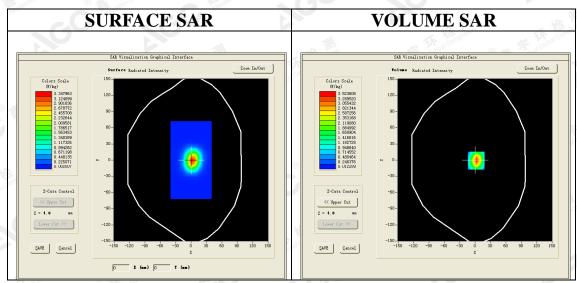
· Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282

Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/System Check 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



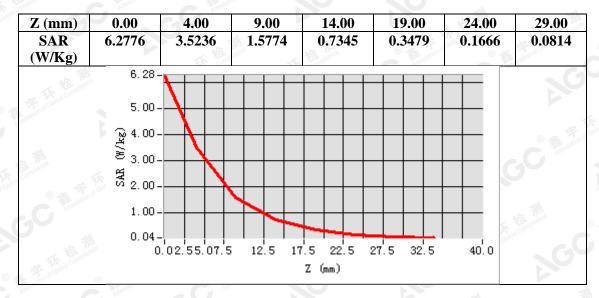
Maximum location: X=2.00, Y=-1.00 SAR Peak: 6.23 W/kg

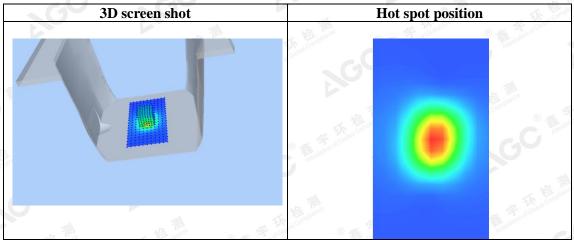
SAR 10g (W/Kg)	1.415695
SAR 1g (W/Kg)	3.283046

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab Date: Jan. 25,2018

GSM 850 Mid-Touch-Left <SIM 1> DUT: Mobile Phone; Type: EVO

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; $\epsilon r = 41.23$; $\rho = 1000$ kg/m³;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.9, Liquid temperature ($^{\circ}$ C): 21.3

SATIMO Configuration:

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

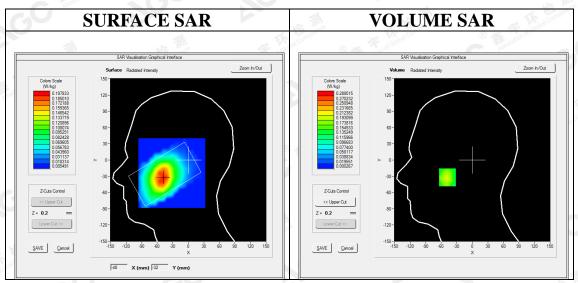
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

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

sam_direct_droit2_surf8mm.txt		
5x5x7,dx=8mm dy=8mm dz=5mm,Complete		
Left head		
Cheek		
GSM 850		
Middle		
TDMA (Crest factor: 8.0)		



Maximum location: X=-48.00, Y=-32.00 SAR Peak: 0.30 W/kg

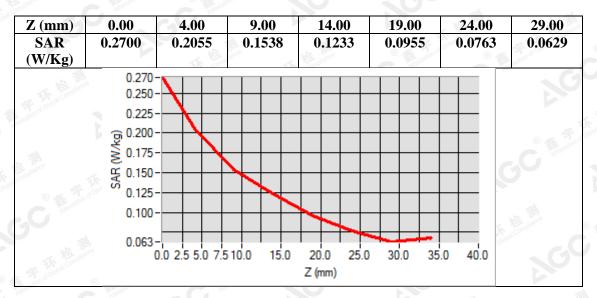
SAR 10g (W/Kg)	0.135291
SAR 1g (W/Kg)	0.192921

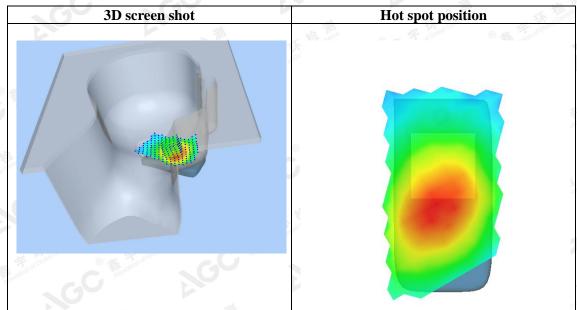
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Test Laboratory: AGC Lab

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

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; $\sigma = 0.97$ mho/m; $\epsilon r = 54.83$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.5

SATIMO Configuration:

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

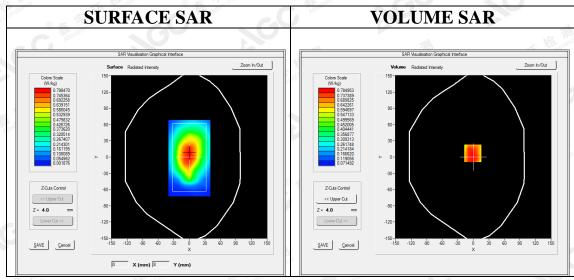
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

Configuration/GSM 850 Mid -Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/GSM 850 Mid -Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

sam direct droit2 surf10mm.txt	
5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
Validation plane	
Body Back	
GSM 850	
Middle	
TDMA (Crest factor: 8.0)	



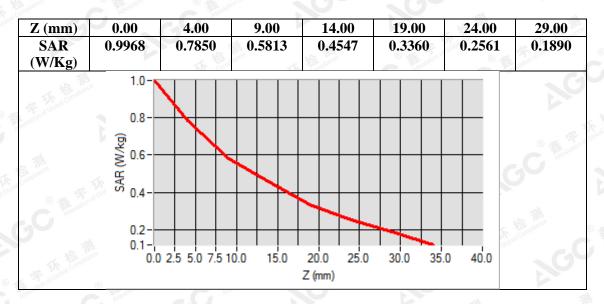
Maximum location: X=-1.00, Y=7.00 SAR Peak: 1.03 W/kg

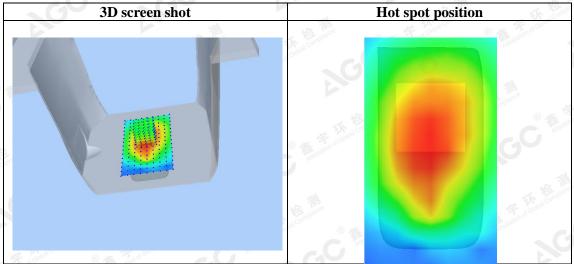
SAR 10g (W/Kg)	0.549824
SAR 1g (W/Kg)	0.765331

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Test Laboratory: AGC Lab GPRS 850 Mid- Touch-Right (1up) DUT: Mobile Phone; Type: EVO

Communication System: GPRS-1 Slot; 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; $\epsilon r = 41.23$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.3

SATIMO Configuration:

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

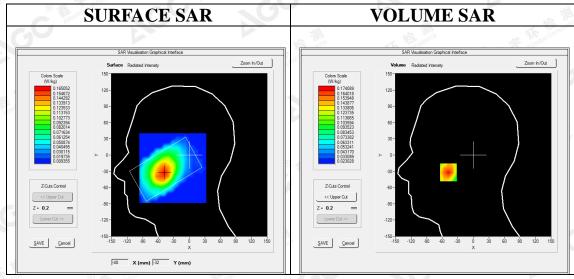
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

Configuration/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: 8.0)		



Maximum location: X=-48.00, Y=-32.00 SAR Peak: 0.23 W/kg

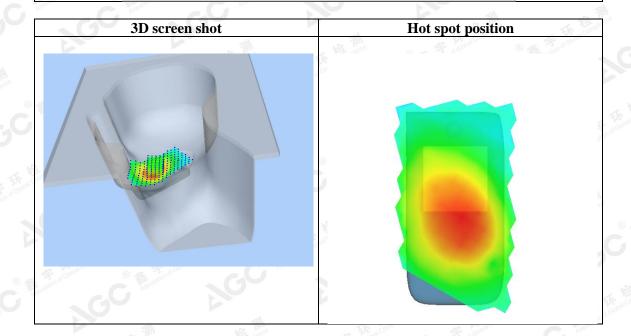
SAR 10g (W/Kg)	0.120171		
SAR 1g (W/Kg)	0.166969		

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2317	0.1741	0.1306	0.1111	0.0858	0.0689	0.0510
(111 8)	0.232		1	2001			₹ €
The of Global Compile	0.200-	\rightarrow					
lestation,	0.175	\longrightarrow					
	0.173 0.150-						
	₩ 0.125-						
	o.100						
	0.075					15.	
	0.045		100 150	20.0 25.0	20.0 25	0 400	
F Toobal Compile		0.0 2.5 5.0 7.5	10.0 15.0	20.0 25.0 Z (mm)	0 30.0 35	.0 40.0	



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Test Laboratory: AGC Lab GPRS 850 Mid- Body- Back (1up) DUT: Mobile Phone; Type: EVO

Communication System: GPRS-1 Slot; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.81; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; $\sigma = 0.97$ mho/m; $\epsilon r = 54.83$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.5

SATIMO Configuration:

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

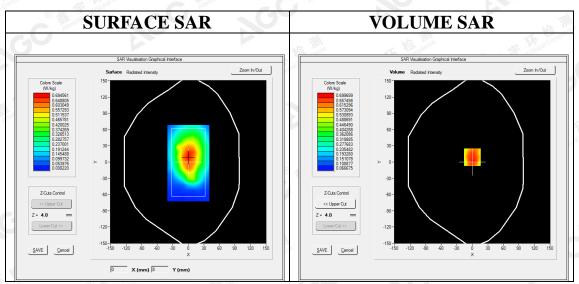
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_35

Configuration/GPRS 850 Mid-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/GPRS 850 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

sam direct droit2 surf10mm.txt					
5x5x7,dx=8mm dy=8mm dz=5mm,Complete					
Validation plane					
Body Back					
GSM 850					
Middle Middle					
TDMA (Crest factor: 8.0)					
5x5x7,dx=8mm dy=8mm dz=5mm,Compl Validation plane Body Back GSM 850 Middle					



Maximum location: X=0.00, Y=9.00 SAR Peak: 1.00 W/kg

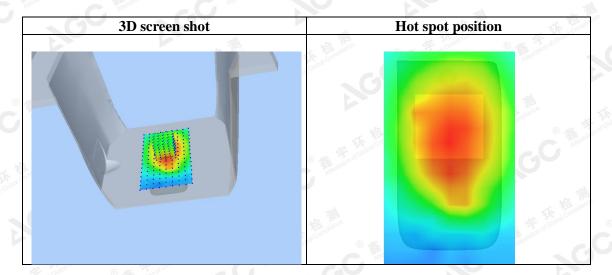
SAR 10g (W/Kg)	0.475091		
SAR 1g (W/Kg)	0.685624		

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8821	0.6997	0.5143	0.3808	0.2913	0.2036	0.1701
T KE THE	0.9-						1 C
	0.8-						
	₹ 0.5	++	\Box				
	% 8 0.4−						
	0.3-			+			
	0.2-					50	
	0.1- 0.0	2.5 5.0 7.5 1	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. 30,2018

PCS 1900 Mid-Touch-Left <SIM 1> DUT: Mobile Phone; Type: EVO

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; $\sigma = 1.38 \text{ mho/m}$; $\epsilon = 40.16$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Left Section

Ambient temperature ($^{\circ}$ C): 21.5 Liquid temperature ($^{\circ}$ C): 21.0

SATIMO Configuration:

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

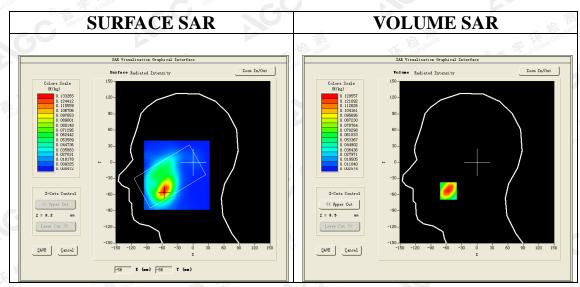
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

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

Area Scan	sam_direct_droit2_surf8mm.txt			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
Phantom	Left head			
Device Position	Cheek			
Band	PCS 1900			
Channels	Middle			
Signal	TDMA (Crest factor: 8.0)			



Maximum location: X=-56.00, Y=-53.00

SAR Peak: 0.20 W/kg

21211 00011	21 2 3 1 1 1 1 2 2 2 3 1 1 1 1 1 1 1 1 1
SAR 10g (W/Kg)	0.068253
SAR 1g (W/Kg)	0.124280

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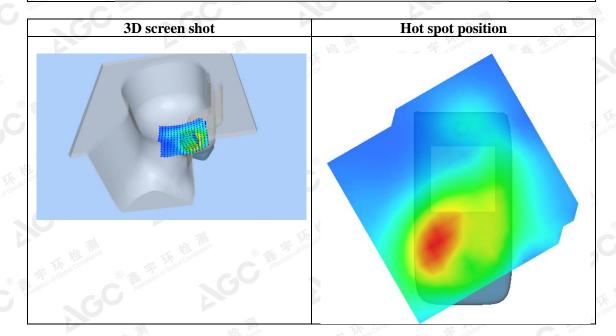
Attestation of Global Compliance

GC



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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1826	0.1296	0.0824	0.0501	0.0305	0.0184	0.0109
	0.183	-		- 01111			< G
写n of Global Compilar	0. 150						
a lestation	0. 125 ∰ 0. 100						
	§ 0.100						
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® ## station	0.050		+				
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	0.007		_			Glops	
The Compile		0.02.55.07.	5 12.5 1	7.5 22.5	27.5 32.5	40.0	
E F of Glove				Z (mm)			



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Test Laboratory: AGC Lab

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

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; $\sigma = 1.51 \text{ mho/m}$; $\epsilon = 53.18$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature (°C): 21.5 Liquid temperature (°C): 21.2

SATIMO Configuration:

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

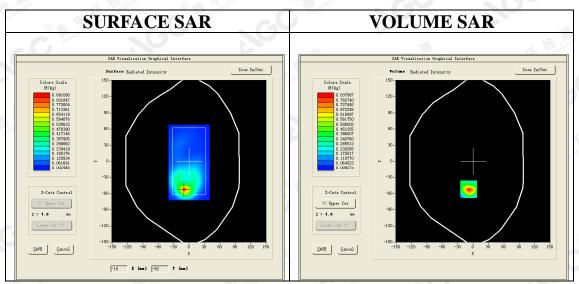
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/PCS1900 Mid -Body- Back /Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/PCS1900 Mid -Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf10mm.txt			
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete			
Phantom	Validation plane			
Device Position	Body Back			
Band	PCS 1900			
Channels	Middle @ Middle			
Signal	TDMA (Crest factor: 8.0)			



Maximum location: X=-9.00, Y=-52.00

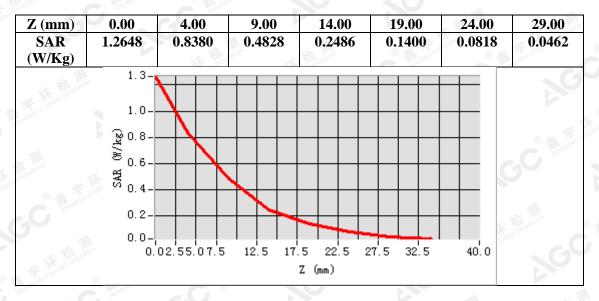
SAR Peak: 1.33 W/kg

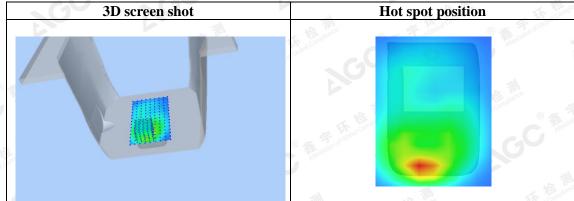
SAR 10g (W/Kg)	0.366491
SAR 1g (W/Kg)	0.773422

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Test Laboratory: AGC Lab

GPRS 1900 Mid-Touch- Right (4up) DUT: Mobile Phone; Type: EVO

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=2.32; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.38$ mho/m; $\epsilon r = 40.16$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.5 Liquid temperature ($^{\circ}$ C): 21.0

SATIMO Configuration:

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

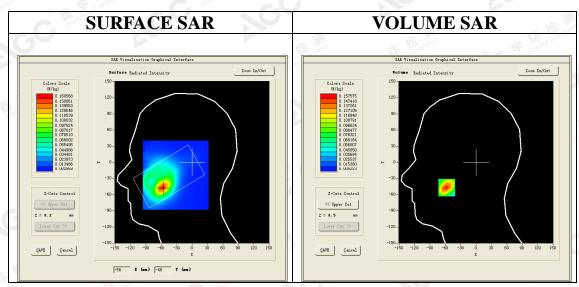
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/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 Middle				
Signal	TDMA (Crest factor: 2.0)				



Maximum location: X=-57.00, Y=-47.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.083240
SAR 1g (W/Kg)	0.149110

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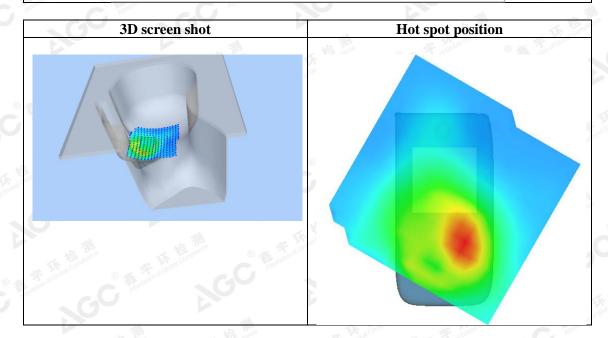
Attestation of Global Compliance

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.2274	0.1576	0.0987	0.0659	0.0413	0.0262	0.0174
(W/Kg)		五人 大豆 ME	ance	* Inpliance	(B) Milestation of	® 5	station of G
THE STATE OF	0.23						- C
The Clobal Compilar	0.20	\longrightarrow					
estation of C		N					
	ြည့် 0.15-	+					
lin:	(2) 0.15 ∦ ∦)						
Compliance	∰ ^{0.10}		+++	+++	+	+	
(C) # 13	<u></u>						
Attestation	0.05		++	\longleftrightarrow	+		
6						1	
17	0.01	-¦	12.5 17	7.5 22.5 i	27.5 32.5	40.0	
FK bal Compile		.02.33.01.3	12.5	Z (mm)	21.0 02.0	40.0	
The story of Glob				7 (IIII)			



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Test Laboratory: AGC Lab GPRS 1900 Low-Body-Back (4up) DUT: Mobile Phone; Type: EVO

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1;Conv.F=2.39; 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 (°C): 21.5 Liquid temperature (°C): 21.2

SATIMO Configuration:

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

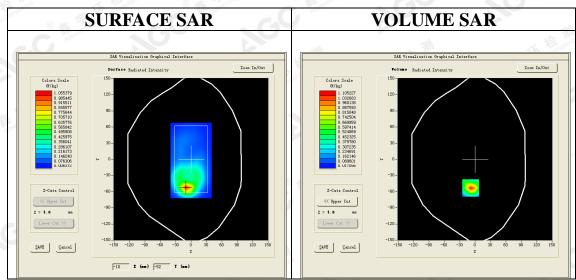
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/GPRS1900 Low -Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/GPRS1900 Low -Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf10mm.txt 5x5x7,dx=8mm dy=8mm dz=5mm,Complete				
Zoom Scan					
Phantom	Validation plane				
Device Position	Body Back				
Band	PCS 1900				
Channels	Low San				
Signal	TDMA (Crest factor: 2.0)				



Maximum location: X=-9.00, Y=-53.00 SAR Peak: 1.78 W/kg

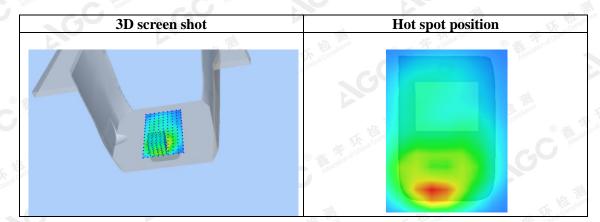
SAR 10g (W/Kg)	0.483590				
SAR 1g (W/Kg)	1.006650				

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.7400	1.1052	0.6205	0.3445	0.2084	0.1232	0.0673
	1.7-						
	1.2 1.0 8 0.8-	\downarrow					
	¥ 0.6- √ 0.6- 0.4-						
	0.2- 0.0- 0.	02.55.07.5	12.5 17.	5 22.5 2	27.5 32.5	40.0	
			7	Z (mm)			



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Test Laboratory: AGC Lab

WCDMA Band II Mid-Touch-Left (RMC)

DUT: Mobile Phone; Type: EVO

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle:1:1; Conv.F=2.32;

Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.38$ mho/m; $\epsilon r = 40.16$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient temperature (°C): 21.9, 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)

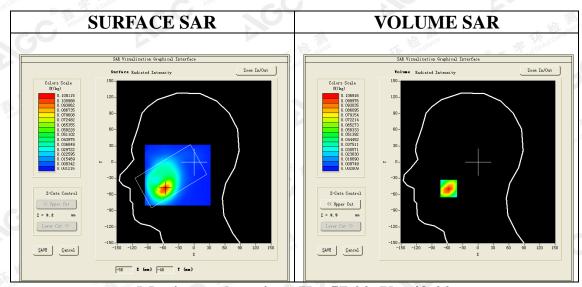
· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band II Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA Band II 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	WCDMA Band II				
Channels	Middle Middle				
Signal	CDMA (Crest factor: 1.0)				



Maximum location: X=-57.00, Y=-49.00

SAR Peak: 0.15 W/kg

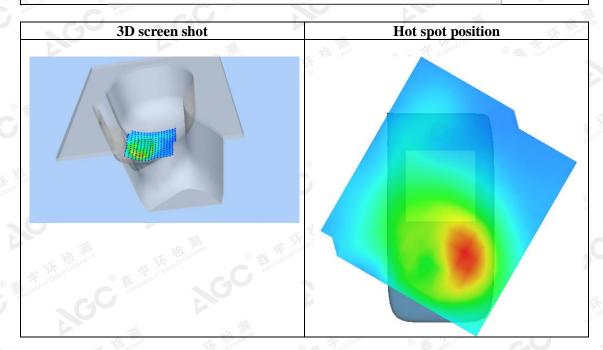
SAR 10g (W/Kg)	0.055503
SAR 1g (W/Kg)	0.100479

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.1514	0.1069	0.0674	0.0416	0.0252	0.0156	0.0097
(W/Kg)		EK KEL	Janes Th	Ki mplance	(R) Milestation of	® 5	Station of Co.
W 30	0.15						
TK New Compilar							
Station of Glov	0.12	+	+++				
P	ର 0.10	+					
-1111	(2) 0.10 € ≥ 0.08						
Fit Dilance		, , , , , , , , , , , , , , , , , , ,					
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® ## static	0.04	- - - - - - - - - - 		 			
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	0.01			i	╺┿╼┷┷	(l/o)	
不检	ance (0.02.55.07.5	5 12.5 17	7.5 22.5	27.5 32.5	40.0	
F Global Co.				Z (mm)			



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Test Laboratory: AGC Lab Date: Jan. 30,2018

WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)

DUT: Mobile Phone; Type: EVO

Communication System: UMTS; Communication System Band: Band II UTRA/FDD; Duty Cycle:1:1; Conv.F=2.39;

Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; $\sigma = 1.51$ mho/m; $\epsilon r = 53.18$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.5

SATIMO Configuration:

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

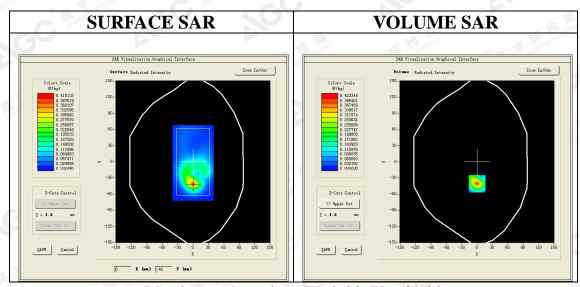
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4 02 32

Configuration/ WCDMA band II Mid-Body- Back /Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/ WCDMA band II Mid-Body- Back /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

sam_direct_droit2_surf10mm.txt				
5x5x7,dx=8mm dy=8mm dz=5mm,Complete				
Validation plane				
Body Back				
WCDMA band II				
Middle				
CDMA (Crest factor: 1.0)				



Maximum location: X=0.00, Y=-41.00

SAR Peak: 0.70 W/kg

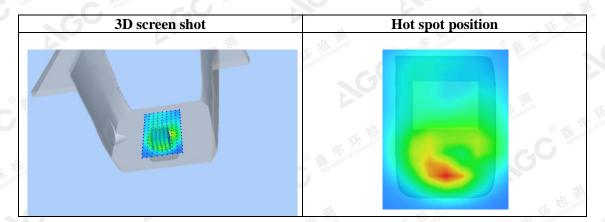
SAR 10g (W/Kg)	0.171494
SAR 1g (W/Kg)	0.378676

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7092	0.4233	0.2124	0.1132	0.0603	0.0330	0.0188
1 THE	0.7-					1	
	0.6-	\longrightarrow					
	0.5-	\rightarrow					
	0.4 1/€ 0.4-						
	₩ 8 0.3-						
	0.2-						
	0.1-					- T	
	0.0-		105 17	5 00 5		40.0	
	U.	02.55.01.5		.5 22.5 : Z (mm)	27.5 32.5	40.0	
				2 (1111)			



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Test Laboratory: AGC Lab Date: Jan. 25,2018

WCDMA Band V Mid-Touch-Right (RMC)

DUT: Mobile Phone; Type: EVO

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.74;

Frequency: 836.6 MHz; Medium parameters used: f = 835MHz; $\sigma = 0.92$ mho/m; $\epsilon r = 41.23$; $\rho = 1000$ kg/m³;

Phantom section: Right Section

Ambient temperature ($^{\circ}$ C): 21.9, Liquid temperature ($^{\circ}$ C): 21.3

SATIMO Configuration:

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

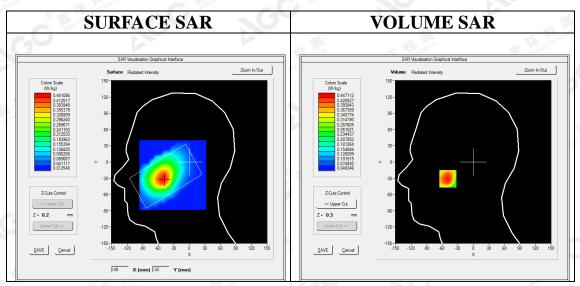
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band V Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/ WCDMA Band V 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	WCDMA Band V Middle CDMA (Crest factor: 1.0)				
Channels					
Signal					



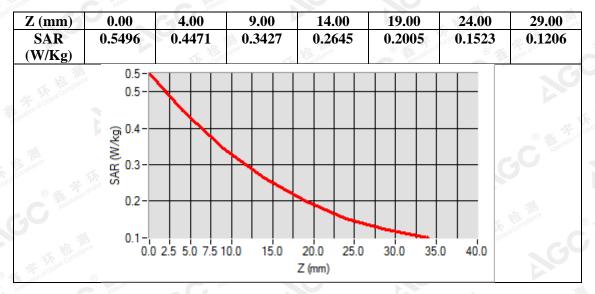
Maximum location: X=-49.00, Y=-31.00 SAR Peak: 0.56 W/kg

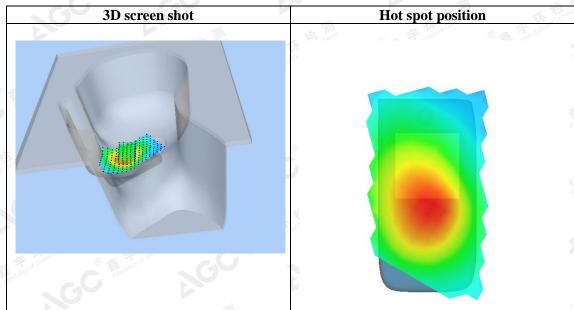
SAR 10g (W/Kg)	0.304181
SAR 1g (W/Kg)	0.429803

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Test Laboratory: AGC Lab Date: Jan. 25,2018

WCDMA Band V Mid-Body-Towards Grounds (RMC)

DUT: Mobile Phone; Type: EVO

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.81;

Frequency: 836.6 MHz; Medium parameters used: f = 835MHz; $\sigma = 0.97$ mho/m; $\epsilon r = 54.83$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature ($^{\circ}$ C): 21.9, Liquid temperature ($^{\circ}$ C): 21.5

SATIMO Configuration:

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

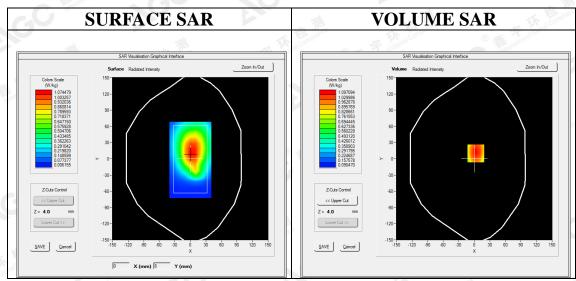
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band V Mid-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/ WCDMA Band V Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf10mm.txt 5x5x7,dx=8mm dy=8mm dz=5mm,Complete Validation plane Body Back				
ZoomScan					
Phantom					
Device Position					
Band	WCDMA Band V				
Channels	Middle				
Signal	CDMA (Crest factor: 1.0)				



Maximum location: X=3.00, Y=10.00 SAR Peak: 1.37 W/kg

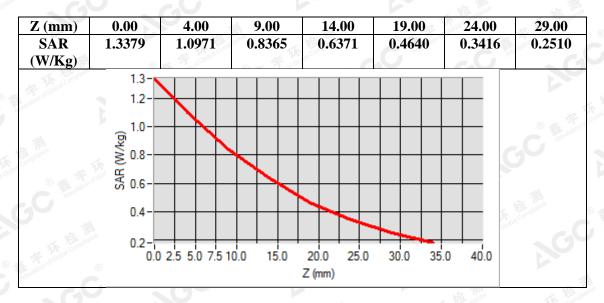
SAR 10g (W/Kg)	0.756826
SAR 1g (W/Kg)	1.057011

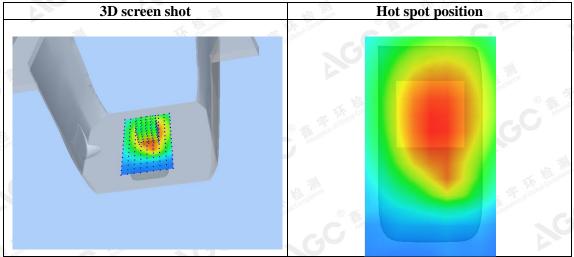
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WIFI MODE

Test Laboratory: AGC Lab

Date: Jan. 27,2018

802.11b Mid- Touch-Right

DUT: Mobile Phone; Type: EVO

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.52;

Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.75 \text{mho/m}$; $\epsilon r = 40.06$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Right Section

Ambient temperature (°C):21.7, Liquid temperature (°C): 21.3

SATIMO Configuration:

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

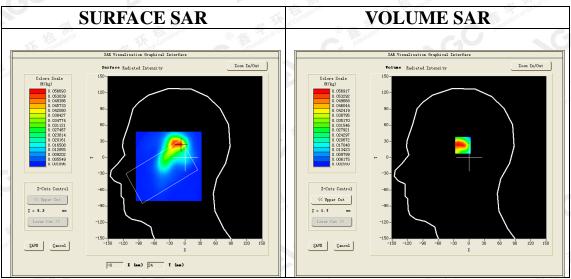
· Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/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 7x7x7,dx=5mm dy=5mm dz=5mm Right head				
ZoomScan					
Phantom					
Device Position	Cheek				
Band	2450MHz				
Channels	Middle				
Signal	Crest factor: 1.0				



Maximum location: X=-10.00, Y=25.00 SAR Peak: 0.10 W/kg

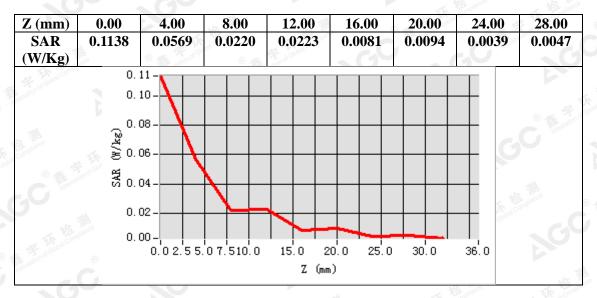
SAR 10g (W/Kg)	0.027338
SAR 1g (W/Kg)	0.053852

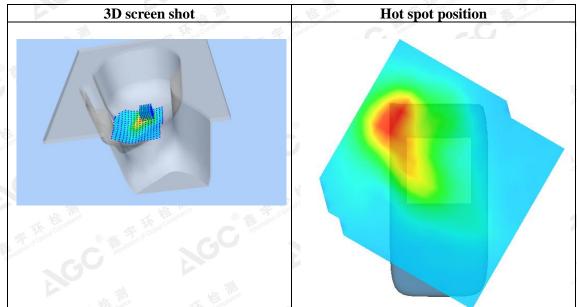
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Test Laboratory: AGC Lab

802.11b Mid-Body-Worn- Back

Date: Jan. 27,2018

DUT: Mobile Phone; Type: EVO

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.58;

Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.92$ mho/m; $\epsilon r = 53.76$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C):21.7, Liquid temperature (°C): 21.2

SATIMO Configuration:

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

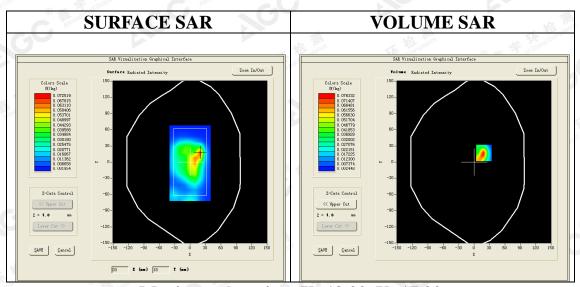
Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

Measurement SW: OpenSAR V4_02_32

Configuration/802.11b Mid- Body- Back /Area Scan: Measurement grid: dx=10mm, dy=10mm Configuration/802.11b Mid- Body- Back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	sam_direct_droit2_surf10mm.txt 7x7x7,dx=5mm dy=5mm dz=5mm				
ZoomScan					
Phantom	Validation plane				
Device Position	Body Back				
Band	2450MHz				
Channels	Middle Middle				
Signal	Crest factor: 1.0				



Maximum location: X=19.00, Y=17.00

SAR Peak: 0.13 W/kg

	3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3
SAR 10g (W/Kg)	0.030776
SAR 1g (W/Kg)	0.066589

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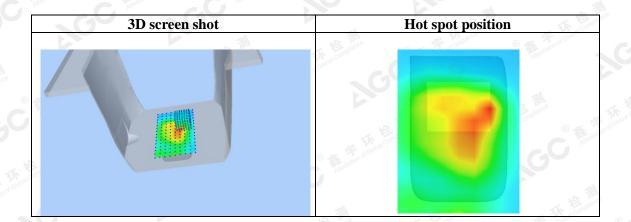
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Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	0.1261	0.0763	0.0449	0.0256	0.0155	0.0095	0.0063	0.0045
The total Complete		. 13-						
Hostation C	(#/kg)							
Compliance		. 00 -	\mathbb{N}^{+}					
® Alleste	ition of Gill	. 02 -						
6		. 00 -	5.07.510.0	15.0 2	20.0 25.0	30.0	36.0	
The Com				7. (mr				



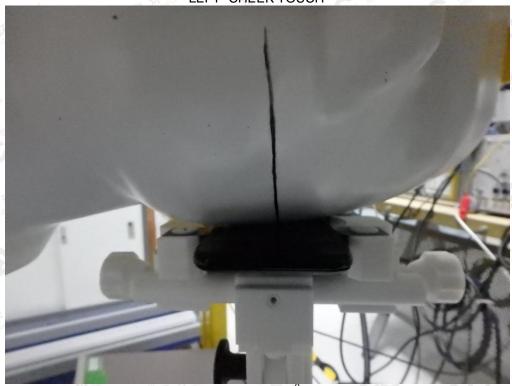
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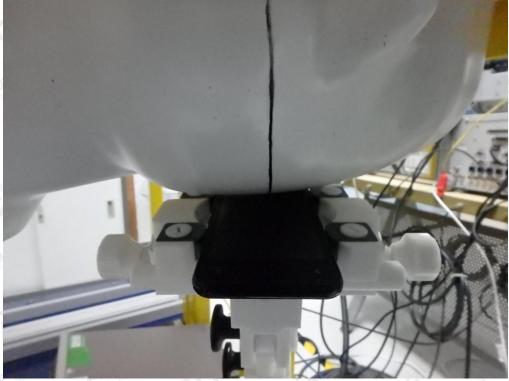
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APPENDIX C. TEST SETUP PHOTOGRAPHS

Test Setup Photographs
LEFT- CHEEK TOUCH







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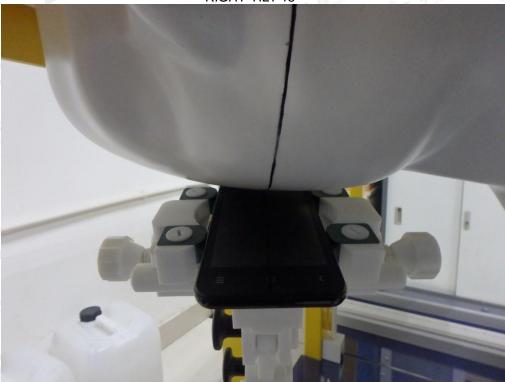


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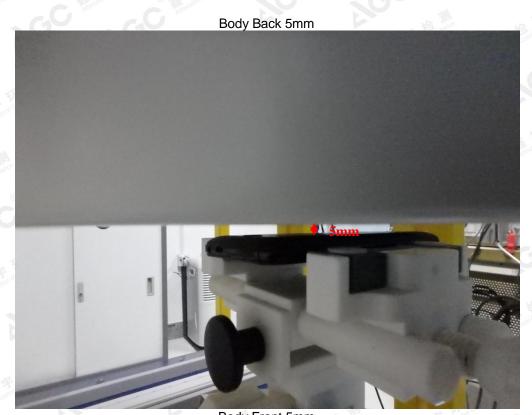


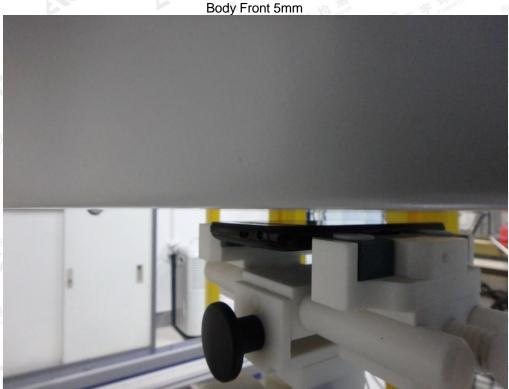
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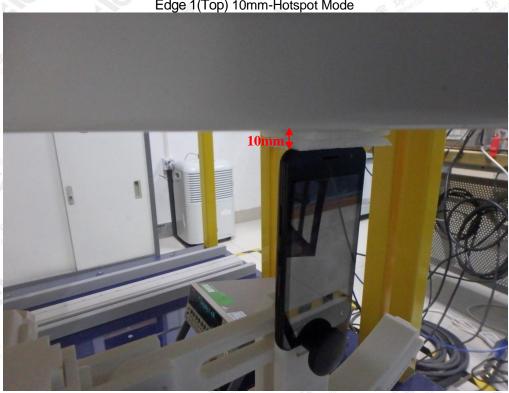




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Edge 1(Top) 10mm-Hotspot Mode



Edge 3(Bottom) 10mm-Hotspot Mode



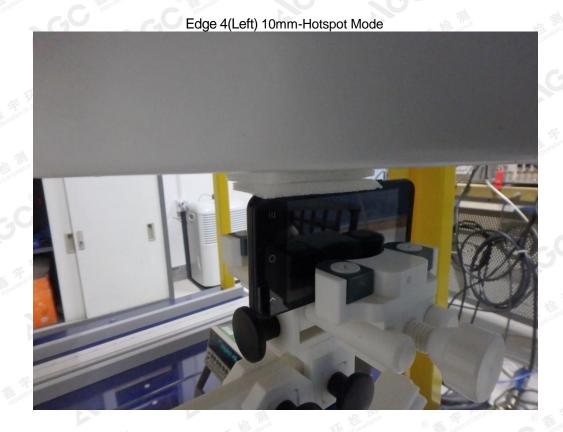
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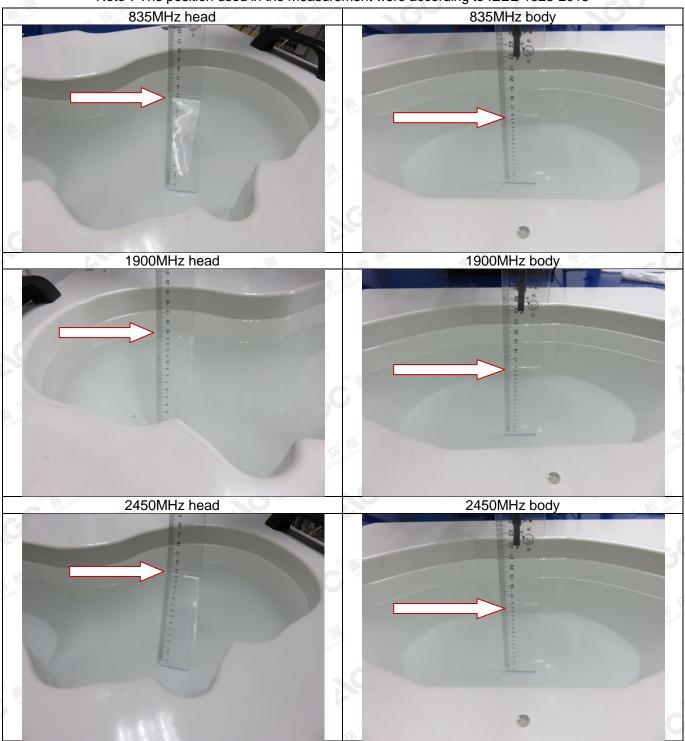
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DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

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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