FCC SAR Measurement and Test Report

For

Beijing Sogou Technology Development Co.,Ltd.

19F, West Wing of Tower D, Tsinghua TongFang Hi-tech Plaza, No 1 Wangzhuang Road, Haidian District, Beijing, China

FCC ID: 2AGLPTM-T2

FCC Part 2.1093

ANSI / IEEE C95.1:2005 ANSI / IEEE C95.3:2002

FCC Rules: IEEE 1528:2013

Product Description: Teemo Watch

Tested Model: TM-T2

Report No.: STR15118146H

Tested Date: 2015-11-19 to 2015-12-18

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM. Test Technology Co., Ltd.

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1. General Information

1.1 Product Description for Equipment Under Test (EUT)

Client Information	
Applicant:	Beijing Sogou Technology Development Co.,Ltd.
Address of applicant:	19F,West Wing of Tower D,Tsinghua TongFang Hi-tech Plaza,No 1 Wangzhuang Road,Haidian District, Beijing, China
Manufacturer:	Beijing Sogou Technology Development Co.,Ltd.
Address of manufacturer:	19F,West Wing of Tower D,Tsinghua TongFang Hi-tech Plaza,No 1 Wangzhuang Road,Haidian District, Beijing, China

General Description of EU	IT
Product Name:	Teemo Watch
Brand Name:	N/A
Model No.:	TM-T2
Adding Model:	N/A
Rated Voltage:	DC 3.8V Li-ion Battery
Device Category:	Portable Device
	·

The EUT is GSM850/DCS1900, Teemo Watch, is intended for speech and Multimedia Message Service (MMS) transmission. It is equipped with GPRS class 12 for GSM850/PCS1900 functions.

For more information see the following datasheet

The test data is gathered from a production sample, provided by the manufacturer.

Technical Characteristics of EUT					
2G					
Support Networks:	GSM, GPRS				
Support Band:	GSM850/PCS1900				
Unlink Fraguency	GSM/GPRS 850: 824~849MHz				
Uplink Frequency:	GSM/GPRS 1900: 1850~1910MHz				
Downlink Frequency:	GSM/GPRS 850: 869~894MHz				
Downlink Frequency.	GSM/GPRS 1900: 1930~1990MHz				
Max RF Output Power:	GSM850: 32.70dBm, GSM1900: 30.55dBm				
Type of Modulation:	GMSK, 8PSK				
Antenna Type:	Internal Antenna				
Antenna Gain:	GSM850: 1.2dBi; GSM1900: 1.2dBi				

1.2 Test Standards

The following report is prepared on behalf of the Beijing Sogou Technology Development Co.,Ltd. in accordance with FCC 47 CFR Part 2.1093, ANSI/IEEE C95.1-2005, IEEE 1528-2013 and KDB 865664 D01 v01r04 and KDB 865664 D02 v01r01

The objective is to determine compliance with FCC Part 2.1093 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with KDB 865664 D01 v01r04 and KDB 865664 D02 v01r01. The public notice KDB 447498 D01 v06 for Mobile and Portable Devices RF Exposure Procedure also.

1.4 Test Facility

• FCC – Registration No.: 934118

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

• Industry Canada (IC) Registration No.: 11464A

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

• CNAS Registration No.: L4062

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

2. Summary of Test Results

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

Near to Mouth(10mm Gap)

Frequency Band	Maximum SAR _{1g} (W/kg)	SAR _{1g} Limit (W/kg)
GSM850	0.086	1.6
GSM1900	0.147	1.6

Wrist-worn(0mm Gap)

Frequency Band	Maximum SAR _{10g} (W/kg)	SAR _{10g} Limit (W/kg)
GSM850	3.178	4.0
GSM1900	0.327	4.0

The highest reported SAR values for Near to Mouth and Wrist-worn are 0.147 W/kg and 3.178 W/kg respectively.

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (4.0 W/kg) specified in FCC 47 CFR Part 2.1093 and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedure specified in IEEE 1528-2013 and KDB 865664 D01 v01r04 and KDB 865664 D02 v01r01

3. Specific Absorption Rate (SAR)

3.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techiques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

3.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

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

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C\left(\frac{\delta T}{\delta t}\right)$$

Where: C is the specific heat capacity, δ T is the temperature rise and δ t is the exposure duration, or related to the

electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

4. SAR Measurement System

4.1 The Measurement System

Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

4.2 Probe

For the measurements the Specific Dosimetric E-Field Probe SSE5 SN 09/13 EP168 with following specifications is used

- Dynamic range: 0.01-100 W/kg

- Probe Length: 330 mm

Length of Individual Dipoles: 4.5 mmMaximum external diameter: 8 mmProbe Tip External Diameter: 5 mm

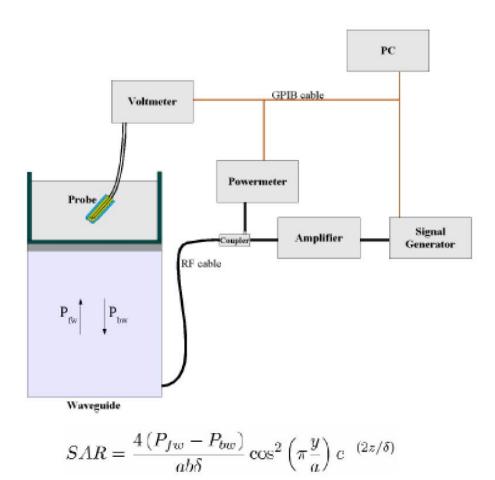
- Distance between dipoles / probe extremity: 2.7mm

- Probe linearity: <0.25 dB
- Axial Isotropy: <0.25 dB
- Spherical Isotropy: <0.50 dB

- Calibration range: 700 to 3000MHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and suface normal line:1ess than 30°

Probe calibration is realized, in compliance with EN 62209-1 and IEEE 1528 STD, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1 annexe technique using reference guide at the five frequencies.



Where:

Pfw = Forward Power

Pbw = Backward

Power

a and b = Waveguide dimensions

I = Skin depth

Keithley configuration:

Rate = Medium; Filter = ON; RDGS = 10; Filter type = Moving Average; Range auto after each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.

The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N)=SAR(N)/Vlin(N)$$
 (N=1,2,3)

The linearised output voltage Vlin(N) is obtained from the displayed output voltage V(N) using

$$Vlin(N)=V(N)*(1+V(N)/DCP(N)) (N=1,2,3)$$

where DCP is the diode compression point in mV.

4.3 Probe Calibration Process

Dosimetric Assessment Procedure

Each E-Probe/Probe Amplifier combination has unique calibration parameters. SATIMO Probe calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm2) using an with CALISAR, Antenna proprietary calibration system.

Free Space Assessment Procedure

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1mW/cm2.

Temperature Assessment Procedure

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated head tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

Where:
$$\Delta t = \text{exposure time (30 seconds)},$$

$$C = \text{heat capacity of tissue (brain or muscle)},$$

$$\Delta T = \text{temperature increase due to RF exposure}.$$

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

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

Where:

 σ = simulated tissue conductivity,

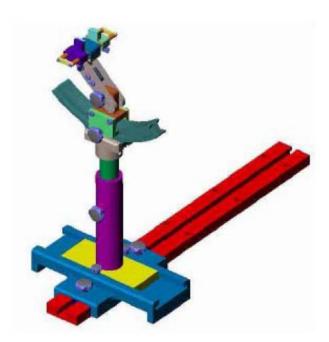
 ρ = Tissue density (1.25 g/cm3 for brain tissue)

4.4 Phantom

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

4.5 Device Holder

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



System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

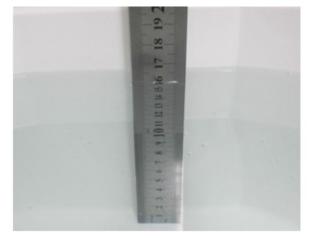
4.6 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
E-Field Probe	SATIMO	SSE5	SN 09/13 EP168	2015-06-03	2016-06-02
835MHz Dipole	SATIMO	SID835	SN 47/12 DIP 0G835-204	2015-03-16	2016-03-15
1900MHz Dipole	SATIMO	SID1900	SN 47/12 DIP 1G900-207	2015-03-16	2016-03-15
Dielectric Probe	SATIMO	SCLMP	SN 47/12 OCPG49	2015-03-16	2016-03-15
SAM Phantom	SATIMO	SAM	SN/ 47/12 SAM95	N/A	N/A
Multi Meter	Keithley	Keithley 2000	4006367	2015-06-17	2016-06-16
Signal Generator	Rohde & Schwarz	SMR20	100047	2015-06-17	2016-06-16
Universal Tester	Rohde & Schwarz	CMU200	112012	2015-06-17	2016-06-16
Network Analyzer	HP	8753C	2901A00831	2015-06-17	2016-06-16
Data Acquisition	SATIMO	DAE4	915	2015-06-17	2016-06-16
Electronics	SATIMO	DALA	713	2013-00-17	2010-00-10
Directional Couplers	Agilent	778D	20160	2015-06-17	2016-06-16

5. Tissue Simulating Liquids

5.1 Composition of Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with SMTIMO, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. Please see the following photos for the liquid height.



Liquid Height for Head SAR



Liquid Height for Body SAR

The Composition of Tissue Simulating Liquid

Frequency	Water	Salt	Triton	HEC	Preventol	DGBE
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)
			Head			
835	35.34	0.98	0.00	0.00	63.68	0.00
1900	55.26	0.52	30.40	0.00	0.00	13.82
			Body			
835	52.87	1.07	0.00	0.00	46.10	0.00
1900	69.99	0.41	20.66	0.00	0.00	8.93

5.2 Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Towart Everyoner	Н	ead	Во	ody
Target Frequency	Conductivity	Permittivity	Conductivity	Permittivity
(MHz)	(σ)	(E _r)	(σ)	(E _r)
150	0.76	52.3	0.80	61.9
300	0.87	45.3	0.92	58.2
450	0.87	43.5	0.94	56.7
835	0.90	41.5	0.97	55.2
900	0.97	41.5	1.05	55.0
915	0.98	41.5	1.06	55.0
1450	1.20	40.5	1.30	54.0
1610	1.29	40.3	1.40	53.8
1800-2000	1.40	40.0	1.52	53.3
2450	1.80	39.2	1.95	52.7
3000	2.40	38.5	2.73	52.0
5800	5.27	35.3	6.00	48.2

5.3 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using COMOSAR Dielectric Probe Kit and an Agilent Network Analyzer.

Calibration Result for Dielectric Parameters of Tissue Simulating Liquid

	Head Tissue Simulating Liquid									
Ema a	TD.	(Conductivity]	Permittivity	T .	T ::4		
Freq. MHz.	Temp. (°C)	Reading	Target	Delta	Reading	Target	Delta	Limit	Date	
MHZ.	1	(σ)	(σ)	(%)	$(\mathcal{E}\mathbf{r})$	$(\mathcal{E}\mathbf{r})$	(%)	(%)		
835	21.2	0.87	0.90	-3.33	41.11	41.50	-0.94	±5	2015-10-26	
1900	21.3	1.38	1.40	-1.43	38.56	40.00	-3.60	±5	2015-10-26	

Body Tissue Simulating Liquid									
Frag	Tomn	(Conductivity]	Permittivity	7	I imit	
Freq. MHz.	Temp. (°C)	Reading	Target	Delta	Reading	Target	Delta	Limit	Date
MIHZ.		(σ)	(σ)	(%)	$(\mathcal{E}_{\mathbf{r}})$	$(\mathcal{E}_{\mathbf{r}})$	(%)	(%)	
835	21.2	0.95	0.97	-2.06	54.85	55.20	-0.63	±5	2015-10-26
1900	21.3	1.50	1.52	-1.32	52.42	53.30	-1.65	±5	2015-10-26

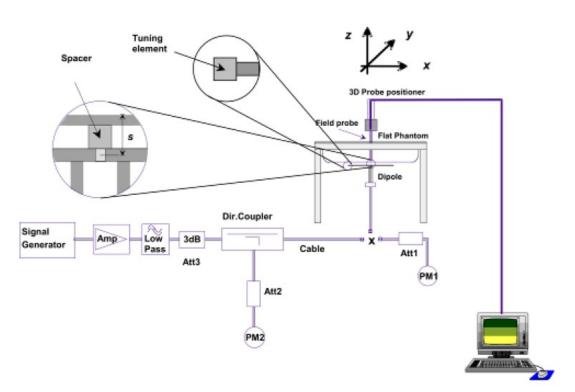
6. SAR Measurement Evaluation

6.1 Purpose of System Performance Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

6.2 System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 835 MHz and 1900 MHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom.



System Verification Setup Block Diagram



Setup Photo of Dipole Antenna

The output power on dipole port must be calibrated to 24 dBm (250 mW) before dipole is connected.

6.3 Validation Results

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %. Table 6.1 shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion.

Frequency	Targeted SAR _{1g}	Measured SAR _{1g}	Normalized SAR _{1g}	Tolerance
MHz	(W/kg)	(W/kg)	(W/kg)	(%)
		Head		
835	9.65	2.41	9.64	-0.10
1900	39.59	9.91	39.62	0.08
		Body		
835	9.36	2.35	9.38	0.21
1900	39.01	9.78	39.10	0.23

Targeted and Measurement SAR

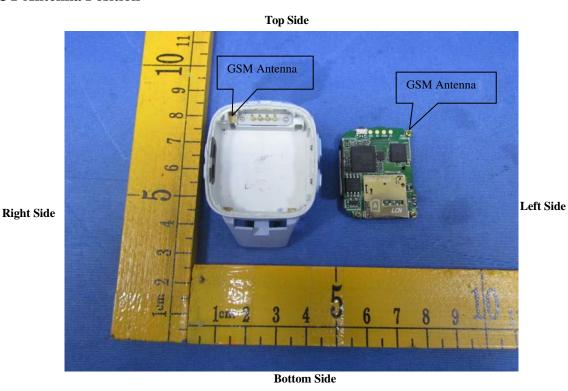
Please refer to Annex A for the plots of system performance check.

7. EUT Testing Position

7.1 Wrist-worn device

- (a) Transmitters that are built-in within a wrist watch or similar wrist-worn devices typically operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to the mouth. Next to the mouth exposure requires 1-g SAR, and the wrist-worn condition requires 10-g extremity SAR.
- (b) The 10-g extremity and 1-g SAR test exclusions may be applied to the wrist and face exposure conditions. When SAR evaluation is required, next to the mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium.
- (c) For wrist-worn condition, 10g SAR value should be measured for the inner wrist band at a separation of 0mm. The design of the hard wrist band prevents opening it to a flat shape to be placed under the flat phantom. KDB inquiry was submitted to FCC to seek guidance for testing, and the details can be found in "KDB inquiry history" exhibit.
- (d) Next to the mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. SAR for wrist exposure is evaluated with the back of the devices positioned in direct contact against a flat phantom fill with body tissue-equivalent medium. The wrist bands should be unstrapped and touching the phantom. The space introduced by the watch or wrist bands and the phantom must be representative of actual use conditions. The 2G, WIFI antenna is in the watch strap, strap is fixed angle 70 angle with the plane of the Watch, removal of the plastic banding so that the EUT will fit flush against the phantom is acceptable.

7.2 EUT Antenna Position



Block Diagram for EUT Antenna Position

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8. SAR Measurement Procedures

8.1 Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the highest power channel.
- (b) Keep EUT to radiate maximum output power or 100% factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as Annex E demonstrates.
- (e) Set scan area, grid size and other setting on the SATIMO software.
- (f) Measure SAR results for the highest power channel on each testing position.
- (g) Find out the largest SAR result on these testing positions of each band
- (h) Measure SAR results for other channels in worst SAR testing position if the SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

8.2 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The SATIMO software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine. The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

8.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan measures 5x5x7 points with step size 8, 8 and 5 mm for 300 MHz to 3 GHz, and 8x8x8 points with step size 4, 4 and 2.5 mm for 3 GHz to 6 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

8.4 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing (step-size is 4, 4 and 2.5 mm). When all volume scan were completed, the software can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.5 SAR Averaged Methods

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimize measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10g and 1 g requires a very fine resolution in the three dimensional scanned data array.

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In SATIMO measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

9. SAR Test Result

9.1 Conducted RF Output Power

	GSM - Burst Average Power (dBm)							
Band		GSM850			PCS1900			
Channel	128	190	251	512	661	810		
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880	1909.8		
GSM	32.27	32.25	32.70	30.27	30.42	30.55		
GPRS (1 slot)	31.09	31.28	31.62	30.14	30.60	30.56		
GPRS (2 slots)	30.35	30.53	30.87	28.96	29.42	29.37		
GPRS (3 slots)	28.39	28.58	28.41	26.93	27.40	27.34		
GPRS (4 slots)	27.29	27.48	27.72	24.88	25.34	25.28		

GS	GSM - Source-Based Time-Average Power (dBm)						
Band		GSM850			PCS1900		
Channel	128	190	251	512	661	810	
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880	1909.8	
GSM	23.24	23.22	23.67	21.24	21.39	21.52	
GPRS (1 slot)	22.06	22.25	22.59	21.11	21.57	21.53	
GPRS (2 slots)	24.33	24.51	24.85	22.94	23.4	23.35	
GPRS (3 slots)	24.13	24.32	24.15	22.67	23.14	23.08	
GPRS (4 slots)	24.28	24.47	24.71	21.87	22.33	22.27	

Note: The source-based time-averaged power is linearly scaled the maximum burst averaged power based on time slots. The calculated method are shown as below:

Source based time-average power = Burst averaged power - Duty cycle factor in dB

Duty cycle factor = 9.03 dB for 1 Tx slot, 6.02 dB for 2 Tx slots, 4.26 dB for 3 Tx slots, 3.01 dB for 4 Tx slots

Remark:

- 1. For near to Mouth SAR testing, GSM should be evaluated, therefore the EUT was set in GSM for GSM850 and GSM1900 due to its highest source-based time-average power.
- 2. For wrist-worn SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS (2x slots) for GSM850 and GPRS (3x slots)GSM1900 due to its highest source-based time-average power.
- 3. Per KDB 447498 D01 v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
- 4. The DUT do not support DTM function.

9.2 Test Results for Standalone SAR Test

Near to Mouth SAR

	GSM850 – Head SAR Test (Gap: 10mm)								
Plot		Test Position	Frequ	uency	Output	Rated	Scaling	CAD1a	Scaled
	Mode		CII	MII	Power	Limit		SAR1g	SAR1g
No.		Body	СН.	MHz	(dBm)	(dBm)	Factor	(W/kg)	(W/kg)
1	GSM	Front side	251	848.8	32.70	33.00	1.1967	0.0717	0.0858

	GSM1900 – Head SAR Test (Gap: 10mm)								
Plot		Test Position	Frequ	uency	Output	Rated	Caslina	CAD1a	Scaled
No.	Mode		CII	MHz	Power	Limit	Scaling Factor	SAR1g (W/kg)	SAR1g
110.		Body	СН.	MITZ	(dBm)	(dBm)	Factor	(W/Kg)	(W/kg)
2	GSM	Front side	810	1909.8	30.55	31.00	1.1350	0.1298	0.1473

Remark: Per KDB 447498 D01 v06, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

Wrist-worn SAR

	GSM850 – Body SAR Test (Gap: 0mm)								
Plot		Test Position	Freq	uency	Output	Rated	Scaling	CAD	Scaled
No.	Mode	Body	CH.	MHz	Power	Limit	Factor	SAR _{10g} (W/kg)	SAR _{10g}
140.		Bouy	CH.	MITZ	(dBm)	(dBm)	Factor	(W/Kg)	(W/kg)
3	GPRS_2TX	Inner wrist band	251	824.2	30.35	31.00	1.2794	1.4376	1.8392
4	GPRS_2TX	Inner wrist band	128	824.2	30.53	31.00	1.1695	2.7172	3.1778
5	GPRS_2TX	Inner wrist band	190	848.8	30.87	31.00	1.1455	2.2245	2.5482

	GSM1900 – Body SAR Test (Gap: 0mm)								
Plot		Test Position	Frequency		Output	Rated	Scaling	CAD	Scaled
No.	Mode		СН.	MHz	Power	Limit	Factor	SAR _{10g} (W/kg)	SAR _{10g}
110.		Body	CH.	MITZ	(dBm)	(dBm)	Factor	(W/Kg)	(W/kg)
6	GPRS_3TX	Inner wrist band	810	1909.8	27.34	28.00	1.1967	0.2728	0.3265

Remark: Per KDB 447498 D01 v06, if the highest output channel SAR for each exposure position \leq 0.8 W/kg other channels SAR tests are not necessary.

10. Measurement Uncertainty

10.1 Uncertainty for EUT SAR Test

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol	Prob.	Div.	Ci (1g)	Ci (10g)	1g Ui	10g Ui	Vi
		(+- %)	Dist.				(+-%)	(+-%)	
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	8
Axial Isotropy	E.2.2	2.5	R	√3	(1_Cp)^1/2	(1_Cp)^1/2	1.02	1.02	×
Hemispherical Isotropy	E.2.2	4.0	R	√3	(Cp)^1/2	(Cp)^1/2	1.63	1.63	8
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	œ
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	œ
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	œ
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	œ
Reponse Time	E.2.7	3.0	R	√3	1	1	1.73	1.73	œ
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	×
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	œ
Probe positioner Mechanical	E.6.2	2.0	R	√3	1	1	1.15	1.15	œ
Tolerance				,					
Probe positioning with respect to	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Phantom Shell	F.5.2	5.0	D	./2	1	1	2.00	2.00	
Extrapolation, interpolation and	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
integration Algoritms for Max. SAR Evaluation									
									1
Test Sample Related Test sample positioning	E.4.2.1	0.03	N	1	1	1	0.03	0.03	N-1
				1					N-1
Device Holder Uncertainty	E.4.1.1	5.00	N	1	1	1	5.00	5.00	<u> </u>
Output power Variation - SAR	6.6.2	12.02	R	$\sqrt{3}$	1	1	6.94	6.94	∞
drift measurement									,
Phantom and Tissue Parameters	F 2 1	0.05	В	√3	1	1	0.02	0.02	
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	V3	1	1	0.03	0.03	œ
Liquid conductivity - deviation	E.3.2	5.00	R	√3	0.64	0.43	1.85	1.24	
from target value	E.3.2	3.00	K	V3	0.04	0.43	1.83	1.24	
Liquid conductivity -	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	
measurement uncertainty	L.J.J	3.00	11	1	0.04	0.43	3.20	2.13	
Liquid permittivity - deviation	E.3.2	0.37	R	√3	0.6	0.49	0.13	0.10	
from target value	1.5.2	0.57		1	0.0	0.17	0.13	0.10	
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M

measurement uncertainty						
Combined Standard Uncertainty		RSS		12.98	12.53	
Expanded Uncertainty		K=2		25.32	24.43	
(95% Confidence interval)						

10.2 Uncertainty for System Performance Check

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol	Prob.	Div.	Ci (1g)	Ci (10g)	1g Ui	10g Ui	Vi
		(+- %)	Dist.				(+-%)	(+-%)	
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	× ×
Axial Isotropy	E.2.2	2.5	R	√3	(1_Cp)^1/2	(1_Cp)^1/2	1.02	1.02	×
Hemispherical Isotropy	E.2.2	4.0	R	√3	(Cp)^1/2	(Cp)^1/2	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	× ×
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∞
Reponse Time	E.2.7	3.0	R	√3	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	∞
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	oc
Probe positioner Mechanical	E.6.2	2.0	R	√3	1	1	1.15	1.15	×
Tolerance									
Probe positioning with respect to	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Phantom Shell									
Extrapolation, interpolation and	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
integration Algoritms for Max.									
SAR Evaluation									
Dipole									
Dipole axis to liquid Distance	8,E.4.2	1.00	N	√3	1	1	0.58	0.58	N-1
Input power and SAR drift	8,6.6.2	12.02	R	√3	1	1	6.94	6.94	œ
measurement									
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and	E.3.1	0.05	R	√3	1	1	0.03	0.03	∞
thickness tolerances)	2.5.1	0.05		,5	1	•	0.05	0.00	-5
Liquid conductivity - deviation	E.3.2	5.00	R	√3	0.64	0.43	1.85	1.24	
from target value									

Liquid conductivity -	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	
measurement uncertainty									
Liquid permittivity - deviation	E.3.2	0.37	R	$\sqrt{3}$	0.6	0.49	0.13	0.10	
from target value									
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
measurement uncertainty									
Combined Standard Uncertainty			RSS				12.00	11.50	
Expanded Uncertainty			K=2				23.39	22.43	
(95% Confidence interval)									

Annex A. Plots of System Performance Check

MEASUREMENT 1

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 11/19/2015

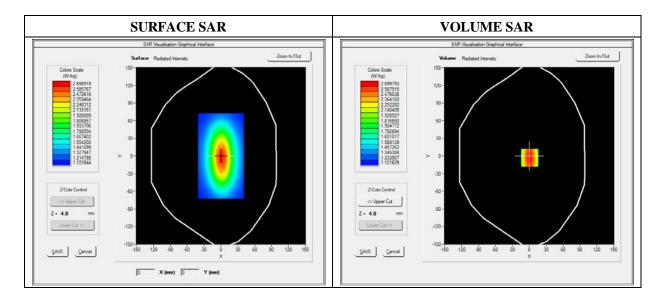
Measurement duration: 7 minutes 21 seconds

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

A. Experimental conditions

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

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

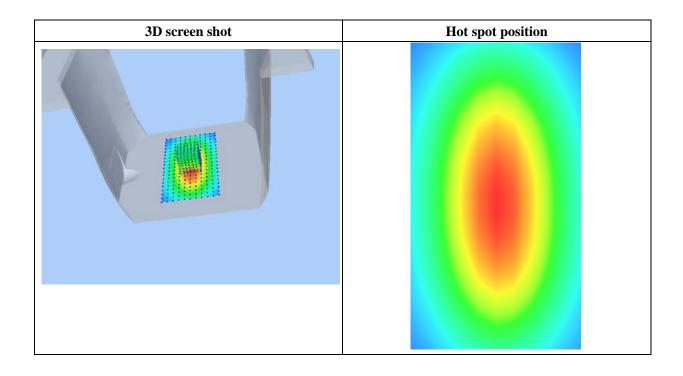


Maximum location: X=0.00, Y=0.00

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

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	2.4900	1.8942	1.4811	1.3541	1.1123	1.0539
(W/Kg)							
	2.5	00-					
	2.3	75-			\perp		
	2.1		$\downarrow \downarrow \downarrow$				
	≥ 1.01						
	SAB 1.50						
	1.3	75-					
	1.150-						
1.030-							
	0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 27.5 30.0 32.5 35.0 Z (mm)						



For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 11/19/2015

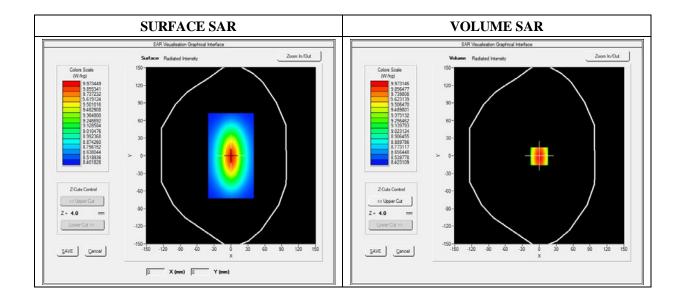
Measurement duration: 12 minutes 21 seconds

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

A. Experimental conditions

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

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

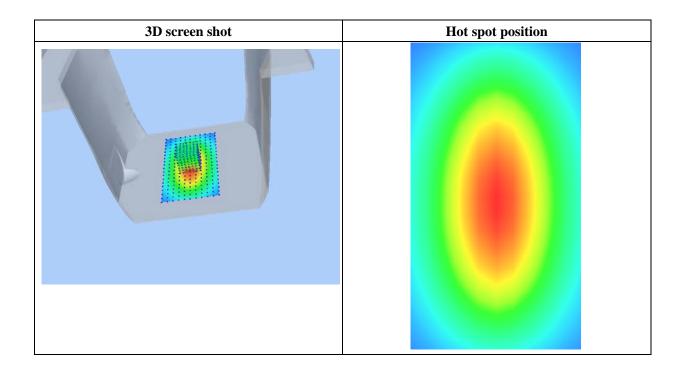


Maximum location: X=0.00, Y=0.00

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

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	10.2354	6.8400	5.0121	4.1189	3.0522	2.8424
(W/Kg)							
	10.30 9.00 7.00 WK WK 9.00 8.00 2.50	0-	7.5 10.0 12.5 15.	0 17.520.0 22.5 Z (mm)	25.0 27.5 30.0 32	2.5 35.0	



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 11/19/2015

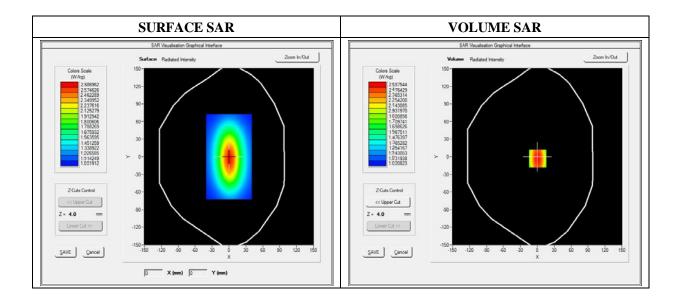
Measurement duration: 12 minutes 21 seconds

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

A. Experimental conditions

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

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

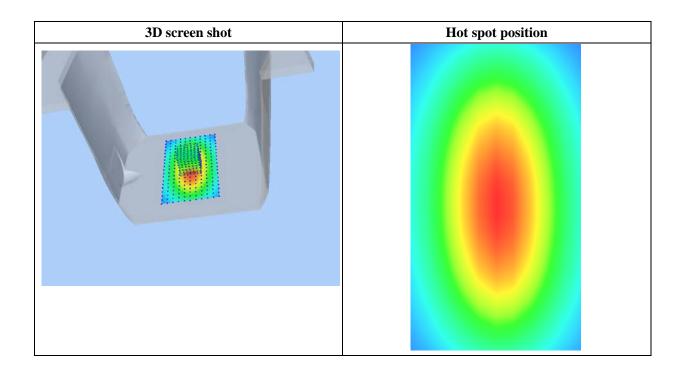


Maximum location: X=0.00, Y=0.00

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

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	2.5789	1.1300	0.8795	0.5940	0.5011	0.5100
(W/Kg)							
	2.60 1.45 — 1.20 0.95 0.70 0.55 0.40			0 17.520.0 22.53 Z (mm)	25.0 27.5 30.0 32	2.5 35.0	



For Body Liquid

Type: Validation measurement (Fast, 75.00 %)

Date of measurement: 11/19/2015

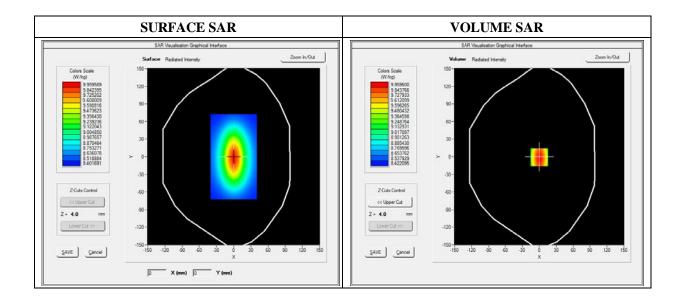
Measurement duration: 12 minutes 21 seconds

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

A. Experimental conditions

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

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

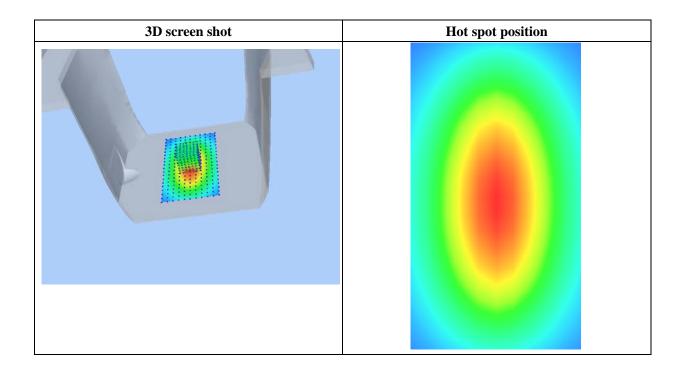


Maximum location: X=0.00, Y=0.00

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

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	10.2031	6.43001	4.9011	4.5325	3.1201	2.5024
(W/Kg)							
	10.30 9.25 — 7.60 WW) 6.21 84.70 4.70 3.00 2.00	0-	7.5 10.0 12.5 15	.0 17.520.0 22.5 Z (mm)	325.0 27.5 30.0 3	2.5 35.0	



Annex B. Plots of SAR Measurement

TYPE	BAND	PA RAMETERS	
Watch	GSM850	Measurement 1: Flat Plane with Front side(Near to Mouth) device position on High Channel in GSM mode	
Watch	GSM1900	Measurement 2: Flat Plane with Front side(Near to Mouth) device position on High Channel in GSM mode	
Watch	GPRS850 Measurement 3: Right Head with Inner wrist band device position on High Channel in GSM mode		
Watch	GPRS850 Measurement 4: Right Head with Inner wrist band device position on Low Channel in GSM mode		
Watch	GPRS850	Measurement 5: Right Head with Inner wrist band device position on Middle Channel in GSM mode	
Watch	GPRS1900 Measurement 6: Right Head with Inner wrist band device position on High Channel in GSM mode		

Type: Phone measurement (Complete)
Date of measurement: 11/19/2015

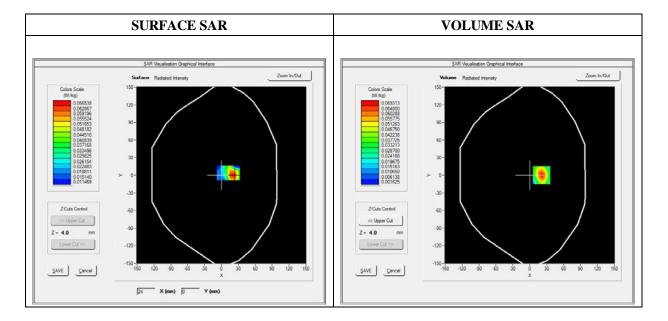
Measurement duration: 12 minutes 3 seconds

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

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Front(Near to Mouth)	
Band	GSM850	
Channels	High	
Signal	TDMA (Crest factor: 8.0)	

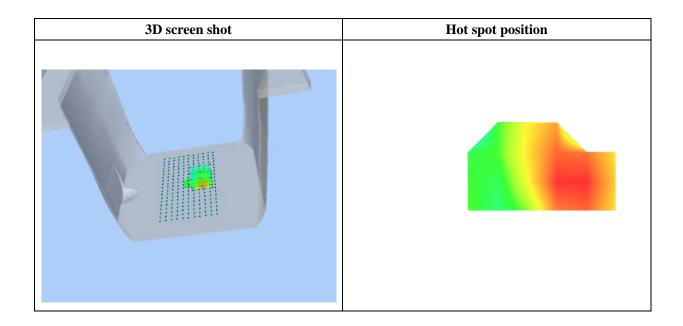
Frequency (MHz)	848.800000
Relative Permittivity (real part)	41.110245
Conductivity (S/m)	0.871245
Power Variation (%)	-1.050000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=21.00, Y=0.00

SAR 10g (W/Kg)	0.040359
SAR 1g (W/Kg)	0.071684

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.0693	0.0433	0.0271	0.0172
	0.07-				
	0.06-				
	ॼ 0.05-				
	≥ 0.04-	++			
	0.05- W 0.04- W 0.03-				
	0.02-				
	0.01				
	0.0 2.5	5.0 7.5 10.0	12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Type: Phone measurement (Complete)
Date of measurement: 11/19/2015

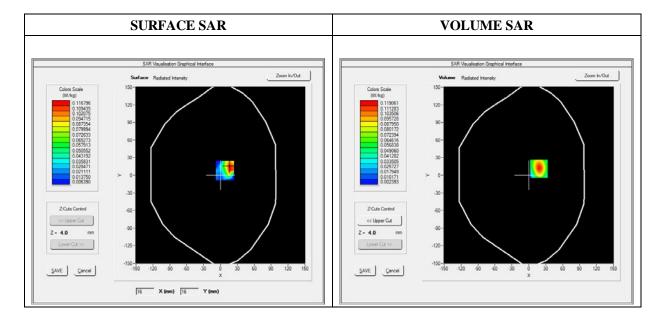
Measurement duration: 12 minutes 3 seconds

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

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt	
Phantom	Flat Plane	
Device Position	Front(Near to Mouth)	
Band	GSM1900	
Channels	High	
Signal	TDMA (Crest factor: 8.0)	

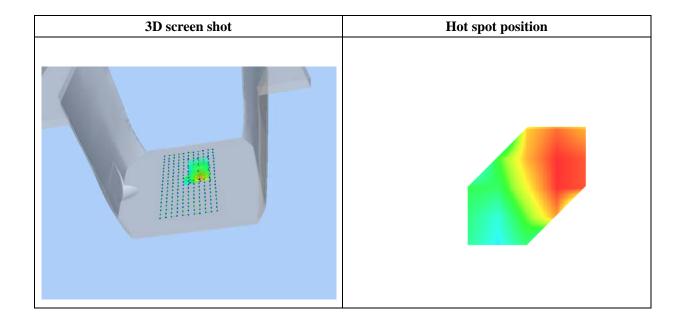
Frequency (MHz)	1909.800000
Relative Permittivity (real part)	38.560124
Conductivity (S/m)	1.380369
Power Variation (%)	-1.730000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=18.00, Y=11.00

SAR 10g (W/Kg)	0.072654
SAR 1g (W/Kg)	0.129765

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1191	0.0796	0.0515	0.0318
	0.12-				
	0.10	$\overline{}$			
	₹ 0.08-	+			
	- 80.0 RB		\longrightarrow		
	0.04-		+		
	0.02-				
	0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 Z (mm)				
			2 (11111)		



Type: Phone measurement (Complete)
Date of measurement: 11/19/2015

Measurement duration: 12 minutes 3 seconds

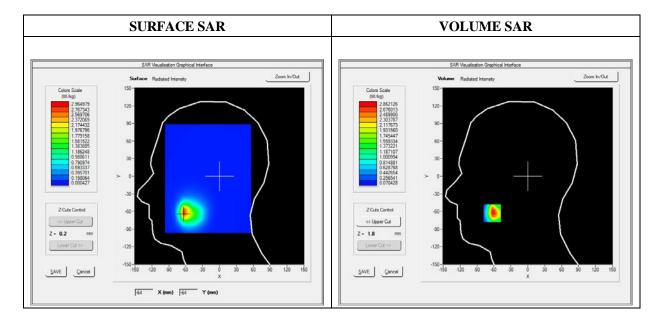
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Inner wrist band
Band	GPRS850_2TX
Channels	High
Signal	Duty Cycle: 1:4

B. SAR Measurement Results

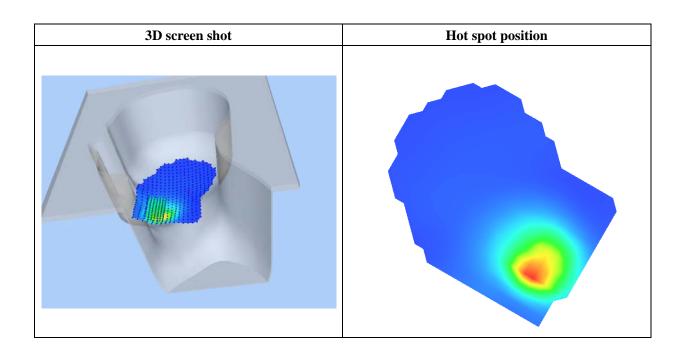
Frequency (MHz)	848.800000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	-2.280000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-63.00, Y=-63.00

SAR 10g (W/Kg)	1.437582
SAR 1g (W/Kg)	2.665237

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	2.8621	1.7684	1.0284	0.7096	0.5169	0.3994
(W/Kg)							
	2.9- 2.5- 2.0- 2.0- 2.0- 2.0- 0.3- 0.3-) 17.5 20.0 22.5 Z (mm)	25.0 27.5 30.0 32	2.5 35.0	



Type: Phone measurement (Complete)
Date of measurement: 11/19/2015

Measurement duration: 12 minutes 3 seconds

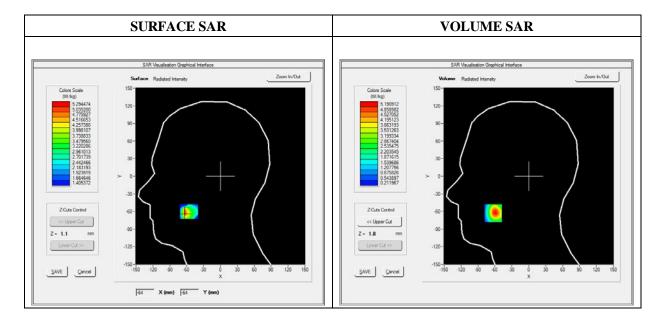
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt
Phantom	Flat Plane
Device Position	Inner wrist band
Band	GPRS850_2TX
Channels	Low
Signal	Duty Cycle: 1:4

B. SAR Measurement Results

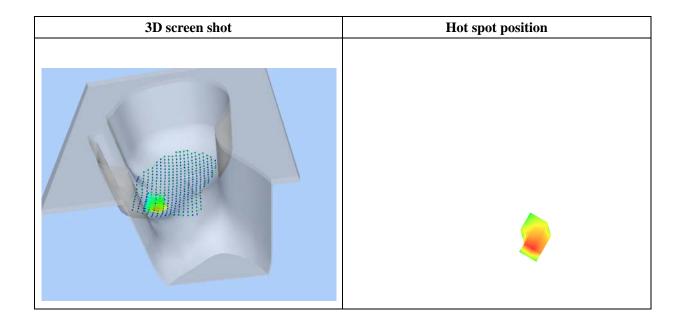
Frequency (MHz)	824.200000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	-4.180000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-63.00, Y=-63.00

SAR 10g (W/Kg)	2.717238
SAR 1g (W/Kg)	4.813926

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	4.9667	2.8873	1.8035	1.2884
	5.0- 4.5- 4.0- 3.5- WM 3.0- 4.0- 3.0- 4.0- 3.0- 4.0- 3.5- 2.5- 2.0- 1.5- 1.0- 0.0 2.5		12.5 15.0 17.5 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/19/2015

Measurement duration: 12 minutes 3 seconds

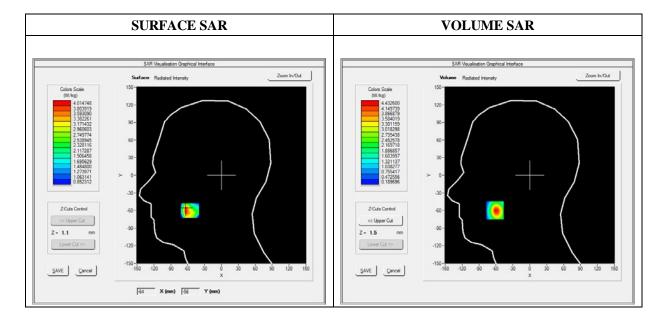
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 7.13; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Inner wrist band		
Band	GPRS850_2TX		
Channels	Middle		
Signal	Duty Cycle: 1:4		

B. SAR Measurement Results

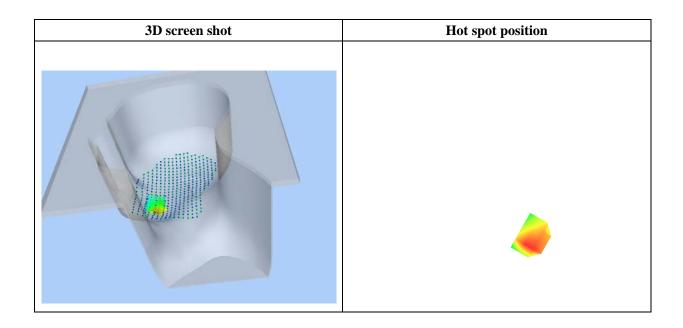
Frequency (MHz)	836.600000
Relative Permittivity (real part)	54.851214
Conductivity (S/m)	0.951454
Power Variation (%)	0.360000
Ambient Temperature	21.1
Liquid Temperature	21.3



Maximum location: X=-62.00, Y=-60.00

SAR 10g (W/Kg)	2.224501	
SAR 1g (W/Kg)	4.128131	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	4.4326	2.3962	1.4038	0.9766
	4.4-				
	4.0-	\rightarrow			
	3.5-	\rightarrow			
	₹ 3.0-	$+\lambda$			
	3.0- W 2.5- W 2.0-	\rightarrow			
	S 20-				
	1.5-				
	1.5				
	0.8-	50 75 100	105 150 175		
	0.0 2.5		12.5 15.0 17.5 2 Z (mm)	20.0 22.5 25.0	



Type: Phone measurement (Complete)
Date of measurement: 11/19/2015

Measurement duration: 12 minutes 3 seconds

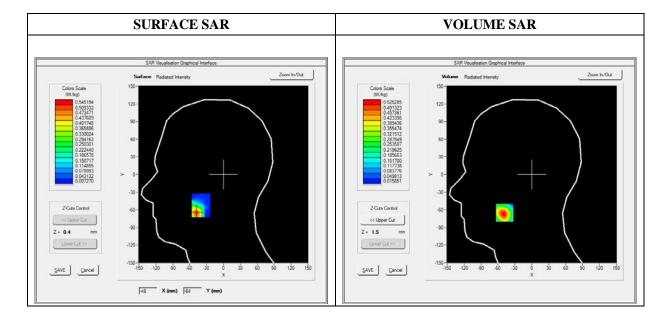
E-field Probe: SSE5 - SN 09/13 EP168; ConvF: 6.55; Calibrated: 06/03/2015

A. Experimental conditions

Area Scan	sam_direct_droit2_surf8mm.txt		
Phantom	Flat Plane		
Device Position	Inner wrist band		
Band	GPRS1900_3TX		
Channels	High		
Signal	Duty Cycle: 1:2.66		

B. SAR Measurement Results

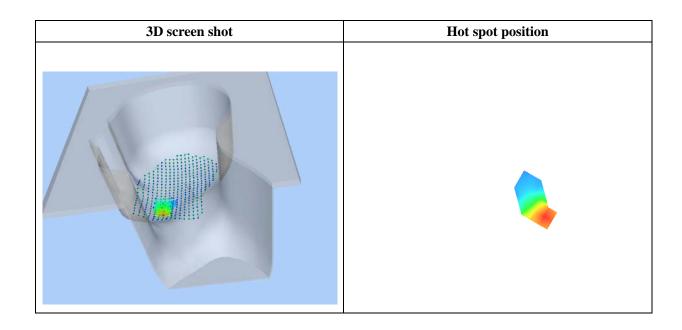
Frequency (MHz)	1909.800000	
Relative Permittivity (real part)	52.420415	
Conductivity (S/m)	1.501966	
Power Variation (%)	-3.720000	
Ambient Temperature	21.1	
Liquid Temperature	21.3	



Maximum location: X=-48.00, Y=-65.00

SAR 10g (W/Kg)	0.272831	
SAR 1g (W/Kg)	0.489306	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5253	0.3563	0.2320	0.1424
	0.5-				
	0.4-				
	<u> </u>				
	₹ 0.3-	\rightarrow			
	SAR (Wikgl				
	0.2-	+	+		
				\downarrow	
	0.1-				
	0.0 2.5		12.5 15.0 17.5	20.0 22.5 25.0	
			Z (mm)		



Annex C. EUT Photos

EUT View 1



EUT View 2



EUT View 3



EUT View 4



EUT View 5



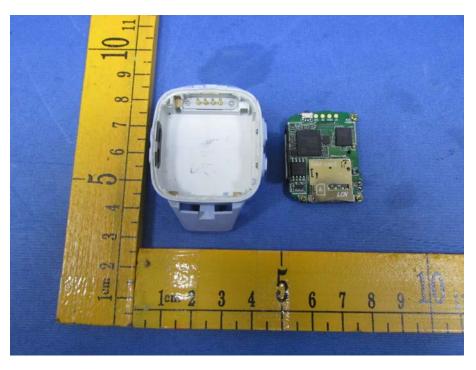
EUT View 6



Internal View 1



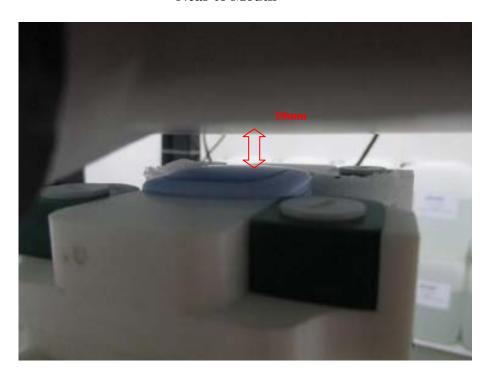
Internal View 2



Annex D. Test Setup Photos

Test View

Near to Mouth



Wrist-worn



Annex E. Calibration Certificate

Please refer to the exhibit for the calibration certificate

***** END OF REPORT *****