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# SAR Test Report

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Report No.: AGC14559220601FH01

**FCC ID** : 2AX4Y-X97PRO

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Smart Phone

**BRAND NAME** : DOOGEE

**MODEL NAME** : X97Pro, X97

**APPLICANT** : Shenzhen DOOGEE Hengtong Technology CO., LTD

**DATE OF ISSUE** : Aug. 12, 2022

**STANDARD(S)** : IEEE Std. 1528:2013  
FCC 47 CFR Part 2§2.1093  
IEEE Std C95.1™-2005  
IEC 62209-1: 2016

**REPORT VERSION** : V1.0

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



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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 12, 2022	Valid	Initial Release

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Test Report	
Applicant Name	Shenzhen DOOGEE Hengtong Technology CO., LTD
Applicant Address	B, 2F, Silicon Valley Power Digital Industrial Park, Dafu Industrial Zone, Guanlan Aobei Community, Shenzhen China
Manufacturer Name	Shenzhen DOOGEE Hengtong Technology CO., LTD
Manufacturer Address	B, 2F, Silicon Valley Power Digital Industrial Park, Dafu Industrial Zone, Guanlan Aobei Community, Shenzhen China
Factory Name	Shenzhen DOOGEE Hengtong Technology CO., LTD
Factory Address	B, 2F, Silicon Valley Power Digital Industrial Park, Dafu Industrial Zone, Guanlan Aobei Community, Shenzhen China
Product Designation	Smart Phone
Brand Name	DOOGEE
Model Name	X97Pro, X97
Different Description	All the models are the same, only different in model names.
EUT Voltage	DC3.7V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1™-2005 IEC 62209-1: 2016
Test Date	Aug. 01, 2022 to Aug. 09, 2022
Report Template	AGCRT-US-4G/SAR (2021-04-20)

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

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Reviewed By \_\_\_\_\_  
Calvin Liu (Reviewer) Aug. 12, 2022

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## 1. SUMMARY OF MAXIMUM SAR VALUE

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

Frequency Band	Highest Reported 1g-SAR(W/kg)			SAR Test Limit (W/kg)
	Head	Body-worn(with 10mm separation)	Hotspot(with 10mm separation)	
GSM 850	0.409	0.303	0.303	1.6
PCS 1900	0.069	0.513	0.513	
UMTS Band II	0.210	0.553	0.553	
UMTS Band IV	0.166	0.514	0.514	
UMTS Band V	0.410	0.275	0.275	
LTE Band 2	0.189	0.390	0.390	
LTE Band 4	0.101	0.507	0.507	
LTE Band 5	0.401	0.300	0.300	
LTE Band 7	0.287	0.758	0.758	
LTE Band 12	0.386	0.119	0.119	
LTE Band 17	0.178	0.151	0.151	
LTE Band 25	0.164	0.691	0.691	
LTE Band 26A	0.425	0.280	0.280	
LTE Band 26B	0.174	0.293	0.293	
LTE Band 66	0.332	0.614	0.614	
WIFI 2.4G	0.238	0.275	0.275	
Simultaneous Reported SAR	1.585			
SAR Test Result	PASS			

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

- KDB 447498 D04 Interim General RF Exposure Guidance v01
- 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
- KDB 941225 D05 SAR for LTE Devices v02r05

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## 2. GENERAL INFORMATION

### 2.1. EUT Description

General Information	
Product Designation	Smart Phone
Test Model	X97Pro
Hardware Version	E2T_01
Software Version	DOOGEE-X97Pro-EEA-Android12.0-20220616
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GSM and GPRS & EGPRS	
Support Band	<input checked="" type="checkbox"/> GSM 850 <input checked="" type="checkbox"/> PCS 1900 <input type="checkbox"/> GSM 900 <input type="checkbox"/> DCS 1800
GPRS & EGPRS Type	Class B
GPRS & EGPRS 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; GMSK & 8-PSK for EGPRS
Antenna Gain	GSM850: 2.0dBi; PCS1900: 1.25dBi
Max. Average Power	GSM850: 32.75dBm; PCS1900: 29.20dBm
WCDMA	
Support Band	<input checked="" type="checkbox"/> UMTS FDD Band II <input checked="" type="checkbox"/> UMTS FDD Band V <input checked="" type="checkbox"/> UMTS FDD Band IV <input type="checkbox"/> UMTS FDD Band I <input type="checkbox"/> UMTS FDD Band III <input type="checkbox"/> UMTS FDD Band VIII
HS Type	HSPA(HSUPA/HSDPA)
TX Frequency Range	FDD Band II: 1850-1910MHz; FDD Band V: 824-849MHz FDD Band IV: 1710-1770MHz
RX Frequency Range	FDD Band II: 1930-1990MHz; FDD Band V: 869-894MHz FDD Band IV: 2110-2170MHz
Release Version	Rel-6
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	Band II: 1.25dBi; Band IV: 1.36dBi; Band V: 2.0dBi
Max. Average Power	Band II: 21.86dBm; Band IV: 22.21dBm; Band V: 23.03dBm
Bluetooth	
Bluetooth Version	<input type="checkbox"/> V2.0 <input type="checkbox"/> V2.1 <input type="checkbox"/> V2.1+EDR <input type="checkbox"/> V3.0 <input type="checkbox"/> V3.0+HS <input type="checkbox"/> V4.2 <input checked="" type="checkbox"/> V5.0
Operation Frequency	2402~2480MHz
Type of modulation	BR <input checked="" type="checkbox"/> GFSK, EDR <input checked="" type="checkbox"/> π/4-DQPSK, <input checked="" type="checkbox"/> 8DPSK BLE <input checked="" type="checkbox"/> GFSK 1Mbps <input checked="" type="checkbox"/> GFSK 2Mbps
Peak Power	BR&EDR: 3.058dBm; BLE: -1.733dBm
Antenna Gain	2.0dBi
WIFI	
WIFI Specification	<input type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(20) <input checked="" type="checkbox"/> 802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 15.92dBm, 11g:13.87dBm, 11n(20):13.88dBm, 11n(40):13.80dBm
Antenna Gain	2.0dBi

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**EUT Description( Continue)**

LTE	
Support Band	<input checked="" type="checkbox"/> FDD Band 2 <input checked="" type="checkbox"/> FDD Band 4 <input checked="" type="checkbox"/> FDD Band 5 <input checked="" type="checkbox"/> FDD Band 7 <input checked="" type="checkbox"/> FDD Band 12 <input checked="" type="checkbox"/> FDD Band 17 <input checked="" type="checkbox"/> FDD Band 25 <input checked="" type="checkbox"/> FDD Band 26 <input checked="" type="checkbox"/> FDD Band 66 (U.S. Bands)
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz;Band 5:824-849MHz; Band 7:2500-2570MHz; Band 12:699-716MHz; Band 17: 704-716MHz; Band 25: 1850-1915MHz; Band 26: 814-849MHz; Band 66:1700-1780MHz;
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 7:2620-2690MHz; Band 12: 729-746 MHz; Band 17: 734-746 MHz; Band 25: 1930-1995MHz; Band 26: 859-894MHz; Band 66:2110-2200MHz;
Release Version	Rel-8
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 1.25dBi; Band 4: 1.36dBi; Band 5: 2.0dBi; Band 7: 1.49dBi; Band 12: 1.88dBi; Band 17: 1.88dBi; Band 25: 1.58dBi; Band 26: 2.0dBi; Band 66: 1.36dBi;
Diversity gain	Band 2: 1.22dBi; Band 4: 1.28dBi; Band 5: 1.50dBi; Band 7: 1.39dBi; Band 12: 1.75dBi; Band 17: 1.75dBi; Band 25: 1.45dBi; Band 26: 1.68dBi; Band 66: 1.29dBi;
Max. Average Power	Band 2: 21.78dBm; Band 4: 21.44dBm; Band 5: 23.01dBm; Band 7:22.52dBm; Band 12: 23.60dBm; Band 17: 23.75dBm; Band 25: 21.93dBm; Band 26A: 23.11dBm; Band 26B: 23.04dBm; Band 66: 21.54dBm;
Accessories	
Battery	Brand name: maxcom Model No. : MM917/MM918 Voltage and Capacitance: 3.7 V & 2500mAh
Earphone	Brand name: N/A Model No. : N/A

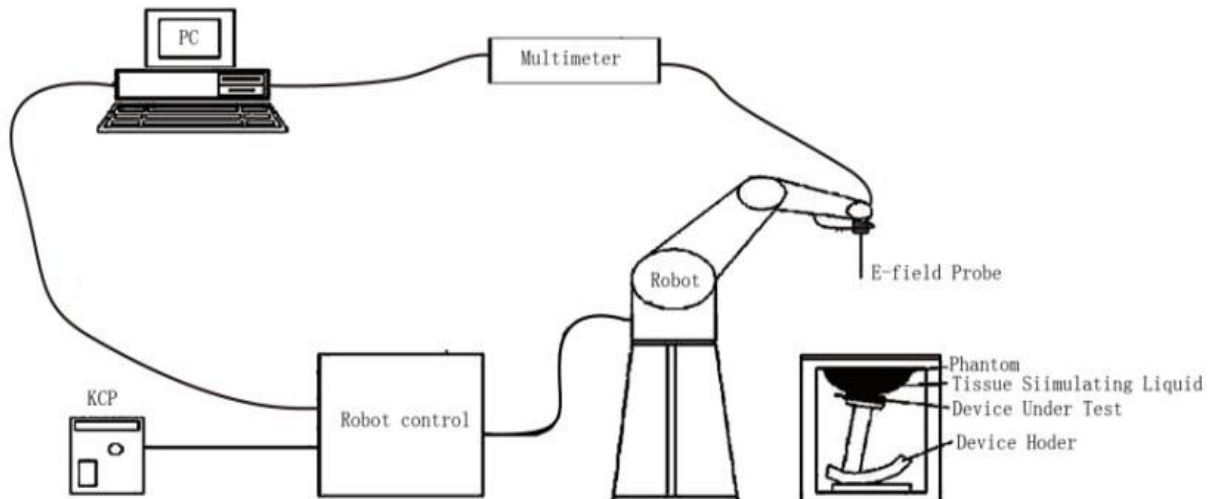
- Note:1.CMU200 can measure the average power and Peak power at the same time  
2.The sample used for testing is end product.  
3. The test sample has no any deviation to the test method of standard mentioned in page 1.

Product	Type
	<input checked="" type="checkbox"/> Production unit <input type="checkbox"/> Identical Prototype

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### 3. SAR MEASUREMENT SYSTEM

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



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

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

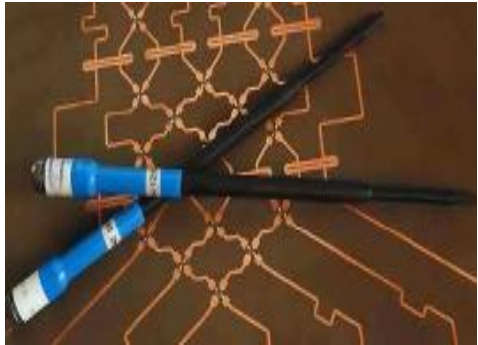
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### 3.2. COMOSAR E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SATIMO. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. SATIMO conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528 and relevant KDB files.) The calibration data are in Appendix D.

#### Isotropic E-Field Probe Specification

<b>Model</b>	SSE2	
<b>Manufacture</b>	MVG	
<b>Identification No.</b>	SN 13/22 EPGO368	
<b>Frequency</b>	0.15GHz-6GHz Linearity:±0.09dB(0.15GHz-6GHz)	
<b>Dynamic Range</b>	0.01W/kg-100W/kg Linearity:±0.09dB	
<b>Dimensions</b>	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity:1mm	
<b>Application</b>	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%.	

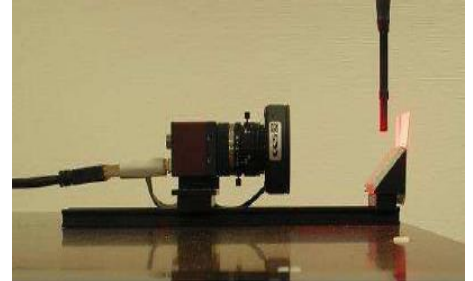
### 3.3. Robot

<p>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.</p> <p>The XL robot series have many features that are important for our application:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> High precision (repeatability 0.02 mm)</li> <li><input type="checkbox"/> High reliability (industrial design)</li> <li><input type="checkbox"/> Jerk-free straight movements</li> <li><input type="checkbox"/> Low ELF interference (the closed metallic construction shields against motor control fields)</li> <li><input type="checkbox"/> 6-axis controller</li> </ul>	
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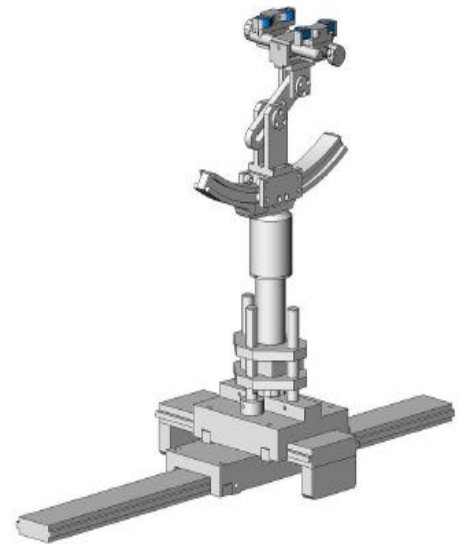
### 3.4. Video Positioning System

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.



### 3.6. SAM Twin Phantom

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

- Left head
- Right head
- Flat phantom



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

### ELLI39 Phantom

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



## 4. SAR MEASUREMENT PROCEDURE

### 4.1. Specific Absorption Rate (SAR)

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

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

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

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

SAR can be obtained using either of the following equations:

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

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

Where

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

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

## 4.2. SAR Measurement Procedure

### Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance 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 and IEC62209 standards, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: $\Delta x_{Area}$ , $\Delta y_{Area}$	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	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.

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

Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$		$\leq 2$ GHz: $\leq 8$ mm 2 – 3 GHz: $\leq 5$ mm*	3 – 4 GHz: $\leq 5$ mm* 4 – 6 GHz: $\leq 4$ mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	$\leq 5$ mm	3 – 4 GHz: $\leq 4$ mm 4 – 5 GHz: $\leq 3$ mm 5 – 6 GHz: $\leq 2$ mm
	graded grid	$\Delta z_{Zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface	$\leq 4$ mm
		$\Delta z_{Zoom}(n>1)$ : between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$
Minimum zoom scan volume	x, y, z	$\geq 30$ mm	3 – 4 GHz: $\geq 28$ mm 4 – 5 GHz: $\geq 25$ mm 5 – 6 GHz: $\geq 22$ mm
<p>Note: <math>\delta</math> is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.</p> <p>* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is <math>\leq 1.4</math> W/kg, <math>\leq 8</math> mm, <math>\leq 7</math> mm and <math>\leq 5</math> 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.</p>			

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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### 4.3. RF Exposure Conditions

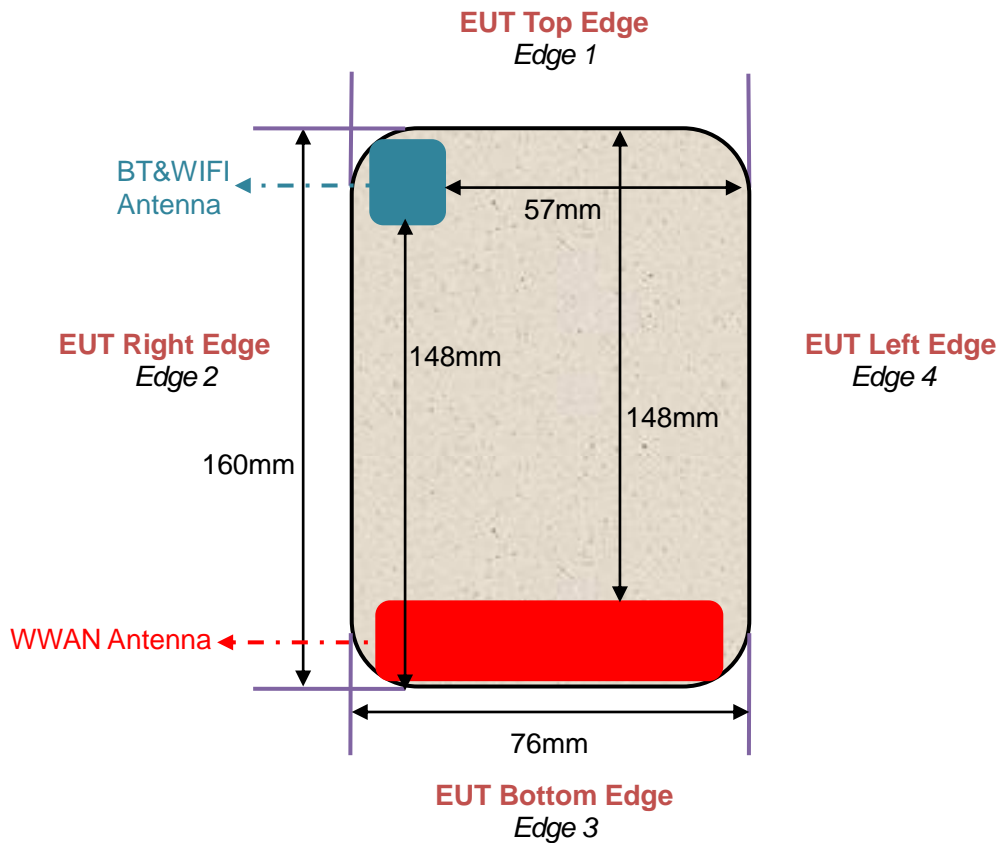
Test Configuration and setting:

The EUT is a model of GSM Portable Mobile Station (MS). It supports GSM/GPRS/EGPRS, WCDMA/HSPA, LTE, 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
<b>Head</b>			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
<b>Body</b>			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
<b>Hotspot</b>			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	148mm	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)	10mm	Yes	--
Edge 3 (Bottom)	1mm	Yes	--
Edge 4 (Left)	1mm	Yes	--

For WLAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
<b>Head</b>			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
<b>Body</b>			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
<b>Hotspot</b>			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	1mm	Yes	--
Edge 2 (Right)	1mm	Yes	--
Edge 3 (Bottom)	148mm	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)	57mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR

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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 10% are listed in 6.2

### 5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	Nacl	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
750 Head	35	2	0.0	0.0	63	0.0
835 Head	50.36	1.25	48.39	0.0	0.0	0.0
1750 Head	52.64	0.36	0.0	47	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97
2600 Head	55.242	0.306	0	44.452	0	0

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## 5.2. Tissue Dielectric Parameters for Head and Body Phantoms

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

Target Frequency (MHz)	head		body	
	$\epsilon_r$	$\sigma$ (S/m)	$\epsilon_r$	$\sigma$ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
<b>750</b>	<b>41.9</b>	<b>0.89</b>	<b>41.9</b>	<b>0.89</b>
<b>835</b>	<b>41.5</b>	<b>0.90</b>	<b>41.5</b>	<b>0.90</b>
900	41.5	0.97	41.5	0.97
915	41.5	1.01	41.5	1.01
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
<b>1750</b>	<b>40.1</b>	<b>1.37</b>	<b>40.1</b>	<b>1.37</b>
<b>1800 – 2000</b>	<b>40.0</b>	<b>1.40</b>	<b>40.0</b>	<b>1.40</b>
2300	39.5	1.67	39.5	1.67
<b>2450</b>	<b>39.2</b>	<b>1.80</b>	<b>39.2</b>	<b>1.80</b>
<b>2600</b>	<b>39.0</b>	<b>1.96</b>	<b>39.0</b>	<b>1.96</b>
3000	38.5	2.40	38.5	2.40

( $\epsilon_r$  = relative permittivity,  $\sigma$  = conductivity and  $\rho = 1000$  kg/m<sup>3</sup>)

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### 5.3. Tissue Calibration Result

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

Tissue Stimulant Measurement for 750MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 41.9 (37.71-46.09)	$\delta$ [s/m] 0.89(0.801-0.979)		
Head	704	43.52	0.85	21.2	Aug. 09, 2022
	707.5	43.39	0.86		
	709	43.39	0.86		
	710	43.05	0.87		
	711	42.87	0.88		
	750	42.64	0.89		

Tissue Stimulant Measurement for 835MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 41.5 (37.35-45.65)	$\delta$ [s/m] 0.90(0.81-0.99)		
Head	824.2	43.64	0.86	21.1	Aug. 01, 2022
	826.4	43.64	0.86		
	835	43.39	0.87		
	836.4	43.12	0.88		
	836.6	43.12	0.88		
	846.6	42.98	0.89		
	848.8	42.98	0.89		

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Tissue Stimulant Measurement for 835MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 41.5 (37.35-45.65)	$\delta$ [s/m] 0.90(0.81-0.99)		
Head	821.5	42.78	0.84	21.3	Aug. 02, 2022
	829	42.43	0.85		
	831.5	42.17	0.86		
	835	41.92	0.88		
	836.5	41.75	0.89		
	841.5	41.46	0.90		
	844	41.46	0.90		

Tissue Stimulant Measurement for 1750MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 40.1 (36.09-44.11)	$\delta$ [s/m]1.37(1.233-1.507)		
Head	1712.4	41.84	1.35	21.0	Aug. 06, 2022
	1720	41.58	1.36		
	1732.4	41.36	1.37		
	1732.5	41.36	1.37		
	1745	41.15	1.38		
	1750	40.89	1.39		
	1752.6	40.89	1.39		
	1755	40.71	1.40		
	1770	40.55	1.41		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 40.00(36.00-44.00)	$\delta$ [s/m]1.40(1.26-1.54)		
Head	1850.2	40.67	1.37	21.9	Aug. 03, 2022
	1852.4	40.67	1.37		
	1880	40.42	1.38		
	1900	40.18	1.39		
	1907.6	39.89	1.40		
	1909.8	39.89	1.40		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 40.00(36.00-44.00)	$\delta$ [s/m]1.40(1.26-1.54)		
Head	1860	37.15	1.33	21.4	Aug. 04, 2022
	1880	36.92	1.34		
	1882.5	36.87	1.35		
	1900	39.69	1.36		
	1905	39.46	1.37		

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Tissue Stimulant Measurement for 2450MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [ $^{\circ}\text{C}$ ]	Test time
		$\epsilon_r 39.2(35.28-43.12)$	$\delta [s/m] 1.80(1.62-1.98)$		
	2412	40.46	1.82	21.6	Aug. 08, 2022
	2437	40.21	1.83		
	2450	39.90	1.84		
	2462	39.65	1.85		

Tissue Stimulant Measurement for 2600MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [ $^{\circ}\text{C}$ ]	Test time
		$\epsilon_r 39(35.1-42.9)$	$\delta [s/m] 1.96(1.764-2.156)$		
	2510	40.58	1.89	21.8	Aug. 07, 2022
	2535	40.23	1.90		
	2560	38.95	1.91		
	2600	38.73	1.92		

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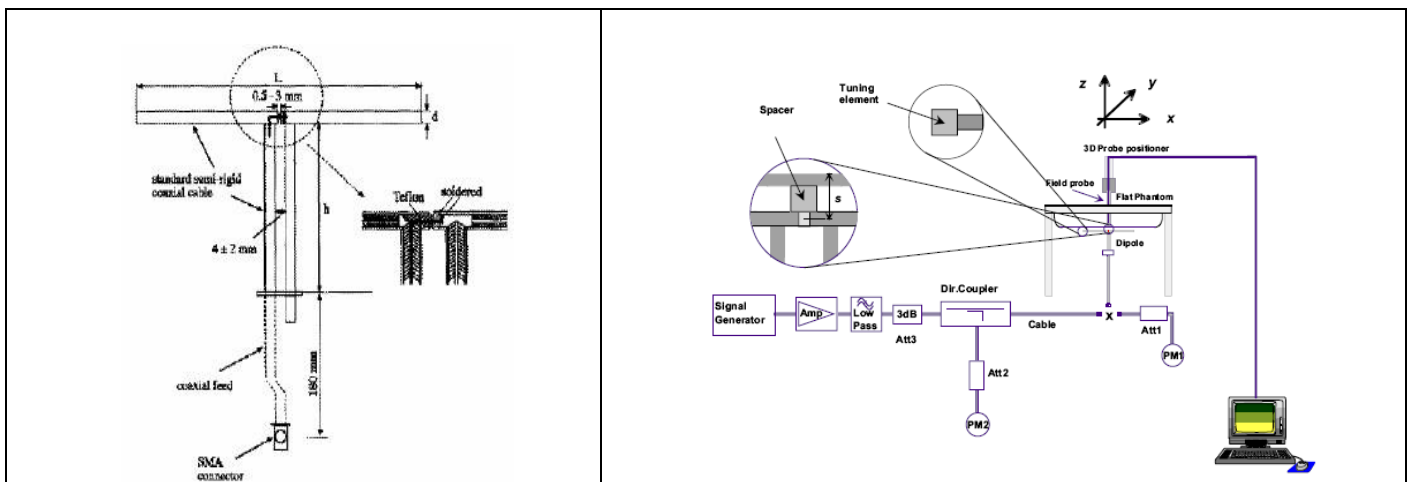
## 6. SAR SYSTEM CHECK PROCEDURE

### 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.

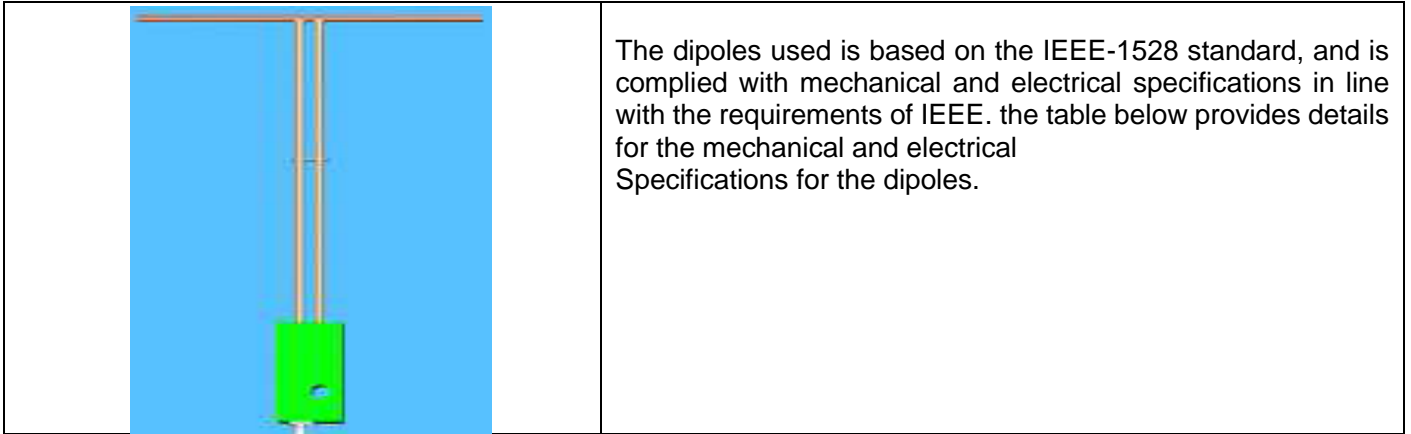
The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



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## 6.2. SAR System Check

### 6.2.1. Dipoles



Frequency	L (mm)	h (mm)	d (mm)
750MHz	176	100	6.35
835MHz	161.0	89.8	3.6
1800MHz	71.6	41.7	3.6
1900MHz	68	39.5	3.6
2450MHz	51.5	30.4	3.6
2600MHz	48.5	28.8	3.6

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### 6.2.2. System Check Result

System Performance Check at 750MHz&835MHz &1800MHz &1900MHz &2450MHz&2600MHz for Head								
Validation Kit: SN 22/16 DIP 0G750-417& SN 15/16 DIP 0G835-399& SN 46/11 DIP 1G800-186& SN 29/15 DIP 1G900-389& SN 29/15 DIP 2G450-393& SN 22/16 DIP 2G600-407								
Frequency [MHz]	Target Value(W/kg)		Reference Result ( $\pm 10\%$ )		Tested Value(W/kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
750	8.33	5.44	7.497-9.163	4.896-5.984	8.70	5.62	21.2	Aug. 09, 2022
835	9.67	6.14	8.703-10.637	5.526-6.754	10.09	6.16	21.1	Aug. 01, 2022
835	9.67	6.14	8.703-10.637	5.526-6.754	9.41	6.09	21.3	Aug. 02, 2022
1800	37.76	19.60	33.984-41.536	17.640-21.560	36.92	19.47	21.0	Aug. 06, 2022
1900	41.26	20.86	37.134-45.386	18.774-22.946	42.04	20.21	21.9	Aug. 03, 2022
1900	41.26	20.86	37.134-45.386	18.774-22.946	38.63	19.31	21.4	Aug. 04, 2022
2450	54.32	24.25	48.888-59.752	21.825-26.675	54.49	23.97	21.6	Aug. 08, 2022
2600	54.94	23.77	49.446-60.434	21.393-26.147	54.27	24.29	21.8	Aug. 07, 2022
750	8.33	5.44	7.497-9.163	4.896-5.984	8.89	5.87	21.2	Aug. 09, 2022
835	9.67	6.14	8.703-10.637	5.526-6.754	9.81	6.45	21.1	Aug. 01, 2022
835	9.67	6.14	8.703-10.637	5.526-6.754	10.06	6.28	21.3	Aug. 02, 2022
1800	37.76	19.60	33.984-41.536	17.640-21.560	35.47	19.29	21.0	Aug. 06, 2022
1900	41.26	20.86	37.134-45.386	18.774-22.946	39.48	19.35	21.9	Aug. 03, 2022
1900	41.26	20.86	37.134-45.386	18.774-22.946	39.57	19.47	21.4	Aug. 04, 2022
2450	54.32	24.25	48.888-59.752	21.825-26.675	51.53	23.22	21.6	Aug. 08, 2022
2600	54.94	23.77	49.446-60.434	21.393-26.147	53.47	23.98	21.8	Aug. 07, 2022

Note:

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

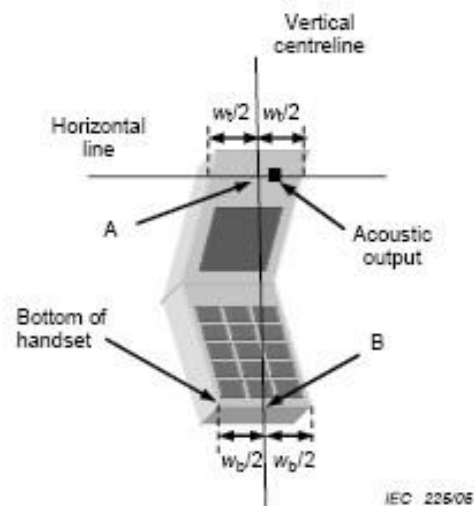
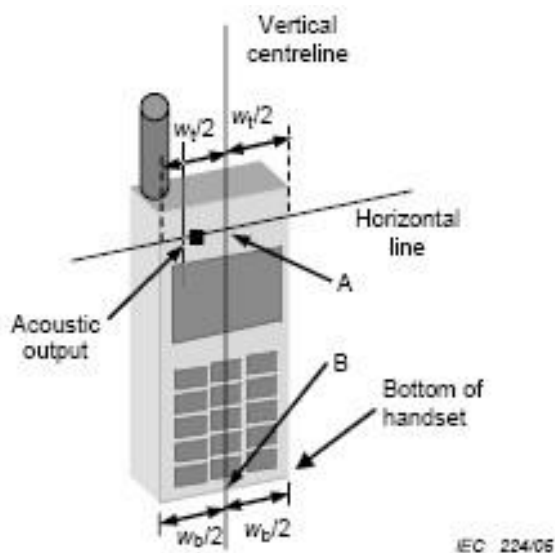


## 7. EUT TEST POSITION

This EUT was tested in **Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back, 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  $w_t$  of the handset at the level of the acoustic output, and the midpoint of the width  $w_b$  of the handset.
- (2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



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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 piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (2) To move the device towards the phantom with the ear piece aligned with the the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost



## 7.3. Tilt Position

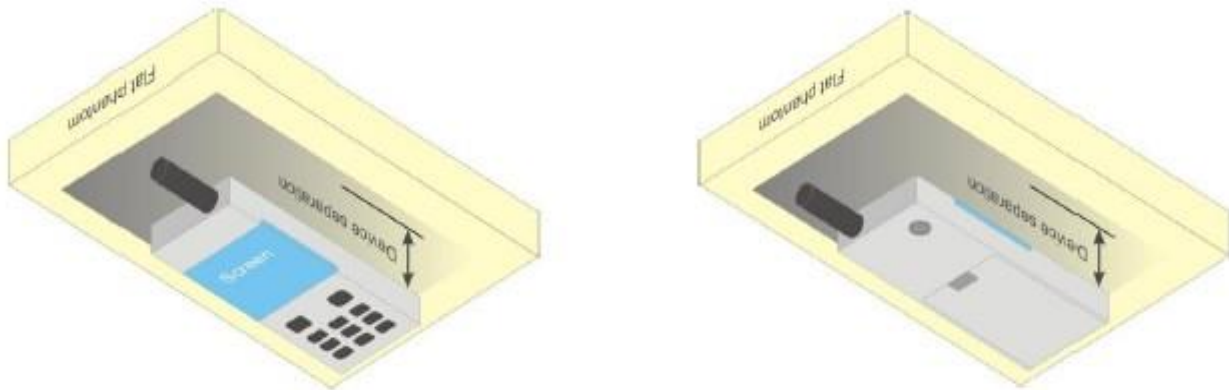
- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



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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 **10mm**.



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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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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>

## 9. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

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## 10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
SAR Probe	MVG	SN 13/22 EPGO368	N/A	Apr. 13, 2022	Apr. 12, 2023
Phantom	SATIMO	SN_4511_SAM90	N/A	Validated. No cal required.	Validated. No cal required.
Phantom	SATIMO	SN_2316_ELLI39	N/A	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	N/A	N/A	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46310822	A.13.07	Aug. 18,2021	Aug. 17,2022
Comm Tester	R&S- CMW500	121209	V3.7.40	Aug. 18,2021	Aug. 17,2022
Multimeter	Keithley 2000	4114939	N/A	Aug. 18,2021	Aug. 17,2022
SAR Software	MVG-OpenSAR	N/A	OpenSAR V4_02_35	N/A	N/A
Dipole	SATIMO SID750	SN 22/16 DIP 0G750-417	N/A-	Apr. 28, 2022	Apr. 27, 2025
Dipole	SATIMO SID835	SN 15/16 DIP 0G835-399	N/A	Apr. 28, 2022	Apr. 27, 2025
Dipole	SATIMO SID1800	SN 46/11 DIP 1G800-186	N/A	Apr. 28, 2022	Apr. 27, 2025
Dipole	SATIMO SID1900	SN 29/15 DIP 1G900-389	N/A	Apr. 28, 2022	Apr. 27, 2025
Dipole	SATIMO SID2450	SN 29/15 DIP 2G450-393	N/A	Apr. 28, 2022	Apr. 27, 2025
Dipole	SATIMO SID2600	SN 22/16 DIP 2G600-407	N/A	Apr. 28, 2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	Aug. 18,2021	Aug. 17,2022
Vector Analyzer	Agilent / E4440A	MY44303916	N/A	Mar. 28, 2022	Mar. 27, 2023
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Oct. 28,2021	Oct. 27,2022
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 08,2022	June 07,2023
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 08,2022	June 07,2023
Amplifier	AS0104-55_55	1004793	N/A	June 09,2022	June 08,2023
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Mar. 10,2022	Mar. 09,2024
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Mar. 10,2022	Mar. 09,2024
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 07,2021	Sep. 06,2022
Power Sensor	NRP-Z23	100323	N/A	Feb. 16,2022	Feb. 15,2023
Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
Calibration standard parts for network sub - port	R&S/ ZV-Z132	N/A	V2.3.1.0	Dec. 07, 2021	Dec. 06, 2022

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

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

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## 11. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- SN 13/22 EPGO368 Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
<b>Measurement System</b>									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.175	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	0.071	0.071	∞
Hemispherical Isotropy	E.2.2	0.175	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	0.071	0.071	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.990	R	$\sqrt{3}$	1	1	0.572	0.572	∞
System detection limits	E.2.4	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Modulation response	E.2.5	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.000	R	$\sqrt{3}$	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	$\sqrt{3}$	1	1	1.328	1.328	∞
<b>Test sample Related</b>									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.600	2.600	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3.000	3.000	∞
Output power variation—SAR drift measurement	E.2.9	5	R	$\sqrt{3}$	1	1	2.887	2.887	∞
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.887	2.887	∞
<b>Phantom and tissue parameters</b>									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.900	1.596	∞
Liquid conductivity measurement	E.3.3	4	R	$\sqrt{3}$	0.78	0.71	3.120	2.840	∞
Liquid permittivity measurement	E.3.3	5	N	1	0.78	0.71	1.150	1.300	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	N	1	0.23	0.26	0.332	0.375	M
Combined Standard Uncertainty			RSS				10.529	10.344	
Expanded Uncertainty (95% Confidence interval)			K=2				21.058	20.688	

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SATIMO Uncertainty- SN 13/22 EPGO368									
System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
<b>Measurement System</b>									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.175	R	$\sqrt{3}$	1	1	0.101	0.101	∞
Hemispherical Isotropy	E.2.2	0.175	R	$\sqrt{3}$	0	0	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.990	R	$\sqrt{3}$	1	1	0.572	0.572	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E.2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
<b>System validation source</b>									
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
<b>Phantom and set-up</b>									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity (temperature uncertainty)	E.3.3	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid conductivity (measured)	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity (measured)	E.3.4	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty			RSS				10.462	10.276	
Expanded Uncertainty (95% Confidence interval)			K=2				20.924	20.551	

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SATIMO Uncertainty- SN 13/22 EPGO368									
System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
<b>Measurement System</b>									
Probe calibration drift	E.2.1.3	0.500	N	1	1	1	0.50	0.50	∞
Axial Isotropy	E.2.2	0.175	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	0.175	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Linearity	E.2.4	0.990	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Modulation response	E.2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	0	0	0.00	0.00	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
<b>System check source (dipole)</b>									
Deviation of experimental dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
<b>Phantom and tissue parameters</b>									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	R	$\sqrt{3}$	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1	0.78	0.71	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	N	1	0.23	0.26	0.33	0.38	M
Combined Standard Uncertainty			RSS				5.562	5.203	
Expanded Uncertainty (95% Confidence interval)			K=2				11.124	10.406	

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## 12. CONDUCTED POWER MEASUREMENT GSM BAND

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
GSM 850	824.2	32.74	-9	23.74
	836.6	<b>32.75</b>	-9	23.75
	848.8	32.60	-9	23.60
GPRS 850 (1 Slot)	824.2	32.74	-9	23.74
	836.6	32.69	-9	23.69
	848.8	32.51	-9	23.51
GPRS 850 (2 Slot)	824.2	30.56	-6	24.56
	836.6	30.42	-6	24.42
	848.8	30.66	-6	<b>24.66</b>
GPRS 850 (3 Slot)	824.2	28.56	-4.26	24.30
	836.6	28.49	-4.26	24.23
	848.8	28.43	-4.26	24.17
GPRS 850 (4 Slot)	824.2	26.42	-3	23.42
	836.6	26.36	-3	23.36
	848.8	26.57	-3	23.57
EGPRS 850 (1 Slot)	824.2	27.24	-9	18.24
	836.6	27.01	-9	18.01
	848.8	27.05	-9	18.05
EGPRS 850 (2 Slot)	824.2	24.24	-6	18.24
	836.6	24.43	-6	18.43
	848.8	24.34	-6	18.34
EGPRS 850 (3 Slot)	824.2	22.51	-4.26	18.25
	836.6	22.28	-4.26	18.02
	848.8	22.34	-4.26	18.08
EGPRS 850 (4 Slot)	824.2	20.93	-3	17.93
	836.6	20.13	-3	17.13
	848.8	20.03	-3	17.03

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**GSM BAND CONTINUE**

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
PCS1900	1850.2	<b>29.20</b>	-9	20.20
	1880	29.05	-9	20.05
	1909.8	28.67	-9	19.67
GPRS1900 (1 Slot)	1850.2	29.20	-9	20.20
	1880	29.00	-9	20.00
	1909.8	28.65	-9	19.65
GPRS1900 (2 Slot)	1850.2	27.81	-6	21.81
	1880	27.48	-6	21.48
	1909.8	27.66	-6	21.66
GPRS1900 (3 Slot)	1850.2	26.35	-4.26	<b>22.09</b>
	1880	26.24	-4.26	21.98
	1909.8	25.41	-4.26	21.15
GPRS1900 (4 Slot)	1850.2	24.12	-3	21.12
	1880	24.20	-3	21.20
	1909.8	24.19	-3	21.19
EGPRS1900 (1 Slot)	1850.2	23.74	-9	14.74
	1880	24.13	-9	15.13
	1909.8	24.98	-9	15.98
EGPRS1900 (2 Slot)	1850.2	23.52	-6	17.52
	1880	23.41	-6	17.41
	1909.8	23.55	-6	17.55
EGPRS1900 (3 Slot)	1850.2	22.09	-4.26	17.83
	1880	22.11	-4.26	17.85
	1909.8	22.36	-4.26	18.10
EGPRS1900 (4 Slot)	1850.2	20.24	-3	17.24
	1880	20.44	-3	17.44
	1909.8	20.19	-3	17.19

Note 1:

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

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

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

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

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

Note 2:

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

**UMTS BAND  
HSDPA Setup Configuration:**

- The EUT was connected to Base Station Agilent-8960 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( $\beta_c$  and  $\beta_d$ ) 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:  $\beta$  values for transmitter characteristics tests with HS-DPCCH

Sub-test	$\beta_c$ (Note5)	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
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:  $\Delta ACK$ ,  $\Delta NACK$  and  $\Delta CQI = 30/15$  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,  $\Delta ACK$  and  $\Delta NACK = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ , and  $\Delta CQI = 24/15$  with  $\beta_{hs} = 24/15 * \beta_c$ .

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-8960 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 ( $\beta_c$  and  $\beta_d$ ) 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:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note 1)	$\beta_{ec}$	$\beta_{ed}$ (Note 4) (Note 5)	$\beta_{ed}$ (SF)	$\beta_{ed}$ (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TF CI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	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	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}$ : 47/15 $\beta_{ed2}$ : 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	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4,  $\Delta ACK$ ,  $\Delta NACK$  and  $\Delta CQI = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ . For sub-test 5,  $\Delta ACK$ ,  $\Delta NACK$  and  $\Delta CQI = 5/15$  with  $\beta_{hs} = 5/15 * \beta_c$ .

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:  $\beta_{ed}$  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.

**UMTS BAND II**

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1900 RMC	1852.4	21.60
	1880	21.78
	1907.6	<b>21.86</b>
HSDPA Subtest 1	1852.4	20.68
	1880	21.01
	1907.6	21.13
HSDPA Subtest 2	1852.4	19.96
	1880	20.29
	1907.6	20.32
HSDPA Subtest 3	1852.4	20.09
	1880	20.17
	1907.6	20.39
HSDPA Subtest 4	1852.4	20.12
	1880	20.29
	1907.6	20.35
HSUPA Subtest 1	1852.4	18.45
	1880	18.52
	1907.6	18.65
HSUPA Subtest 2	1852.4	18.55
	1880	18.55
	1907.6	18.76
HSUPA Subtest 3	1852.4	19.32
	1880	19.57
	1907.6	19.60
HSUPA Subtest 4	1852.4	18.36
	1880	18.22
	1907.6	18.23
HSUPA Subtest 5	1852.4	17.33
	1880	17.40
	1907.6	17.58

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**UMTS BAND IV**

<b>Mode</b>	<b>Frequency (MHz)</b>	<b>Avg. Burst Power (dBm)</b>
WCDMA 1700 RMC	1712.4	<b>22.21</b>
	1732.4	21.95
	1752.6	21.77
HSDPA Subtest 1	1712.4	21.20
	1732.4	21.07
	1752.6	20.87
HSDPA Subtest 2	1712.4	20.43
	1732.4	20.28
	1752.6	20.13
HSDPA Subtest 3	1712.4	20.38
	1732.4	20.29
	1752.6	20.11
HSDPA Subtest 4	1712.4	20.31
	1732.4	20.30
	1752.6	20.06
HSUPA Subtest 1	1712.4	18.98
	1732.4	18.74
	1752.6	18.61
HSUPA Subtest 2	1712.4	19.12
	1732.4	18.81
	1752.6	18.68
HSUPA Subtest 3	1712.4	20.00
	1732.4	19.76
	1752.6	19.57
HSUPA Subtest 4	1712.4	18.63
	1732.4	18.90
	1752.6	18.19
HSUPA Subtest 5	1712.4	18.03
	1732.4	17.86
	1752.6	17.46

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**UMTS BAND V**

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	<b>23.03</b>
	836.4	22.84
	846.6	22.83
HSDPA Subtest 1	826.4	22.04
	836.4	21.89
	846.6	21.81
HSDPA Subtest 2	826.4	21.24
	836.4	21.13
	846.6	21.05
HSDPA Subtest 3	826.4	21.18
	836.4	21.04
	846.6	21.02
HSDPA Subtest 4	826.4	21.10
	836.4	21.07
	846.6	20.93
HSUPA Subtest 1	826.4	19.94
	836.4	19.82
	846.6	19.72
HSUPA Subtest 2	826.4	19.91
	836.4	19.77
	846.6	19.68
HSUPA Subtest 3	826.4	20.86
	836.4	20.66
	846.6	20.60
HSUPA Subtest 4	826.4	19.38
	836.4	19.26
	846.6	19.30
HSUPA Subtest 5	826.4	19.00
	836.4	19.03
	846.6	19.01

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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

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

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

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

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

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

## LTE Band

### LTE (TDD) Considerations

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band 66 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

**Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)**

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$131168 \cdot T_s$			-	-	-

**Table 4.2-2: Uplink-downlink configurations**

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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### Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle(%)
		0	1	2	3	4	5	6	7	8	9	
0	5ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5ms	D	S	U	U	U	D	S	U	U	D	53.33

**Note:** Calculated Duty Cycle = Extended cyclic prefix in uplink x (Ts) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle =  $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

where

$T_s = 1/(15000 \times 2048)$  seconds

**LTE Band**

Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18607	18900	19193
1.4MHz	QPSK	1	0	0	21.19	21.58	21.17
			2	0	21.26	<b>21.78</b>	21.40
			5	0	21.07	21.52	21.17
		3	0	0	21.25	21.33	21.23
			1	0	21.26	21.23	21.19
			3	0	21.21	21.09	20.92
	6	0	1	20.20	20.22	20.25	
	16QAM	1	0	1	20.07	20.47	20.06
			2	1	20.16	20.59	20.07
			5	1	20.04	20.31	20.01
		3	0	1	20.00	20.02	19.97
			1	1	20.00	19.95	19.90
			3	1	19.98	19.99	19.83
	6	0	2	19.22	19.34	19.11	
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel
					18615	18900	19185
3MHz	QPSK	1	0	0	21.01	21.10	20.63
			8	0	20.83	21.02	20.64
			14	0	20.99	20.92	20.62
		8	0	1	19.92	19.95	19.60
			4	1	19.58	19.94	19.56
			7	1	19.53	19.93	19.63
	15	0	1	19.47	19.94	19.55	
	16QAM	1	0	1	20.06	19.91	19.41
			8	1	19.98	19.79	19.40
			14	1	19.86	19.74	19.39
		8	0	2	18.86	18.97	18.63
			4	2	18.58	18.96	18.66
			7	2	18.67	18.95	18.65
	15	0	2	18.67	18.88	18.52	

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Conducted Power of LTE Band 2(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					18625	18900	19175	
5MHz	QPSK	1	0	0	20.99	20.92	20.56	
			12	0	20.95	20.92	20.70	
			24	0	20.58	20.79	20.59	
		12	0	1	19.67	19.93	19.45	
			6	1	19.64	19.97	19.51	
			13	1	19.68	19.95	19.63	
		25	0	1	19.56	19.95	19.57	
		16QAM	1	0	1	19.91	20.03	19.44
				12	1	19.91	20.08	19.59
	24			1	19.55	19.83	19.47	
	12		0	2	18.44	19.06	18.49	
			6	2	18.56	19.05	18.50	
			13	2	18.66	18.99	18.64	
	25	0	2	18.70	18.96	18.65		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18650	18900	19150	
10MHz	QPSK	1	0	0	21.08	21.13	20.64	
			24	0	20.97	21.10	20.80	
			49	0	20.68	20.83	20.62	
		25	0	1	19.40	20.02	19.65	
			12	1	19.39	19.99	19.62	
			25	1	19.69	20.00	19.79	
		50	0	1	19.51	19.97	19.73	
		16QAM	1	0	1	19.61	19.99	19.38
				24	1	19.49	19.95	19.53
	49			1	19.60	19.70	19.34	
	25		0	2	18.39	19.07	18.67	
			12	2	18.44	19.06	18.68	
			25	2	18.70	19.05	18.89	
	50	0	2	18.59	19.02	18.72		

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Conducted Power of LTE Band 2(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					18675	18900	19125	
15MHz	QPSK	1	0	0	20.99	21.05	20.57	
			38	0	20.60	20.94	20.69	
			74	0	20.85	20.65	20.51	
		36	0	1	19.49	20.19	19.32	
			18	1	19.57	20.09	19.46	
			37	1	19.92	19.74	19.29	
		75	0	1	19.77	20.00	19.85	
		16QAM	1	0	1	19.92	20.20	19.28
				38	1	19.80	20.06	19.43
	74			1	19.89	19.75	19.30	
	36		0	2	19.47	20.18	19.28	
			18	2	19.59	20.10	19.43	
			37	2	19.92	19.76	19.27	
	75	0	2	18.62	19.07	18.84		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18700	18900	19100	
20MHz	QPSK	1	0	0	20.93	21.10	20.48	
			49	0	21.26	21.06	20.73	
			99	0	21.20	20.56	20.45	
		50	0	1	19.26	19.99	19.88	
			25	1	19.29	19.95	19.90	
			50	1	19.99	19.98	19.83	
		100	0	1	19.70	20.00	19.85	
		16QAM	1	0	1	19.77	20.18	19.33
				49	1	20.02	20.16	19.52
	99			1	20.02	19.66	19.25	
	50		0	2	18.34	19.07	18.96	
			25	2	18.32	19.08	18.94	
			50	2	18.93	19.02	18.93	
	100	0	2	18.86	19.03	18.89		

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Conducted Power of LTE Band 4(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					19957	20175	20393	
1.4MHz	QPSK	1	0	0	21.18	21.25	21.20	
			2	0	21.22	<b>21.44</b>	21.11	
			5	0	21.13	21.21	20.93	
		3	0	0	21.11	21.31	20.94	
			1	0	20.98	21.34	20.94	
			3	0	20.69	21.31	21.09	
		6	0	1	19.74	20.33	19.75	
		16QAM	1	0	1	19.93	20.12	19.82
				2	1	20.14	20.38	20.10
	5			1	19.63	20.11	19.64	
	3		0	1	19.64	20.14	19.70	
			1	1	19.51	20.02	19.59	
			3	1	19.59	20.08	19.60	
	6	0	2	18.60	19.33	18.60		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
19965						20175	20385	
3MHz	QPSK	1	0	0	21.15	21.29	21.17	
			8	0	21.09	21.27	21.27	
			14	0	21.04	21.27	21.27	
		8	0	1	20.17	20.29	19.86	
			4	1	20.16	20.25	20.18	
			7	1	20.09	20.31	20.19	
		15	0	1	20.12	20.26	20.08	
		16QAM	1	0	1	20.12	20.22	20.03
				8	1	20.14	20.28	20.02
	14			1	20.08	20.25	20.02	
	8		0	2	19.17	19.36	19.00	
			4	2	19.18	19.35	19.17	
			7	2	19.10	19.35	19.12	
	15		0	2	19.11	19.33	19.11	

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Conducted Power of LTE Band 4(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					19975	20175	20375	
5MHz	QPSK	1	0	0	21.04	21.27	20.94	
			12	0	21.18	21.43	21.27	
			24	0	20.97	21.24	21.16	
		12	0	1	20.18	20.27	20.14	
			6	1	20.17	20.23	20.10	
			13	1	20.11	20.24	20.21	
		25	0	1	20.13	20.28	20.18	
		16QAM	1	0	1	19.99	20.15	20.00
				12	1	20.18	20.32	20.32
	24			1	19.92	20.12	20.20	
	12		0	2	19.07	19.26	19.09	
			6	2	19.15	19.26	19.20	
			13	2	19.07	19.29	19.20	
	25	0	2	19.14	19.32	19.06		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20000	20175	20350	
10MHz	QPSK	1	0	0	21.11	21.33	20.90	
			24	0	21.13	21.41	21.22	
			49	0	21.02	21.21	21.16	
		25	0	1	20.20	20.25	20.01	
			12	1	20.18	20.27	20.01	
			25	1	20.10	20.30	20.17	
		50	0	1	20.14	20.23	20.10	
		16QAM	1	0	1	20.18	20.32	19.67
				24	1	20.15	20.39	19.96
	49			1	20.11	20.05	19.91	
	25		0	2	19.12	19.31	19.05	
			12	2	19.16	19.26	19.11	
			25	2	19.03	19.29	19.15	
	50		0	2	19.14	19.31	19.15	

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Conducted Power of LTE Band 4(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					20025	20175	20325	
15MHz	QPSK	1	0	0	21.09	21.33	20.86	
			38	0	21.04	21.35	20.95	
			74	0	21.12	21.05	21.11	
		36	0	1	20.13	20.25	19.96	
			18	1	20.05	20.32	20.02	
			37	1	20.07	19.88	20.26	
		75	0	1	20.19	20.31	20.11	
		16QAM	1	0	1	20.11	20.24	19.99
				38	1	20.02	20.29	20.01
	74			1	20.09	20.02	20.27	
	36		0	2	20.12	20.24	19.97	
			18	2	20.08	20.33	20.01	
			37	2	20.07	20.03	20.30	
	75	0	2	19.11	19.33	19.09		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20050	20175	20300	
20MHz	QPSK	1	0	0	21.00	21.19	21.14	
			49	0	21.30	21.42	21.09	
			99	0	21.07	20.93	21.17	
		50	0	1	20.06	20.13	20.10	
			25	1	20.05	20.18	20.16	
			50	1	20.30	20.14	19.85	
		100	0	1	20.21	20.12	20.01	
		16QAM	1	0	1	19.96	20.09	20.19
				49	1	20.09	20.43	20.17
	99			1	20.00	19.76	20.24	
	50		0	2	19.09	19.24	19.16	
			25	2	19.07	19.15	19.17	
			50	2	19.33	19.16	18.93	
	100	0	2	19.23	19.21	19.05		

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20407	20525	20643
1.4MHz	QPSK	1	0	0	22.42	22.26	22.88
			2	0	22.51	22.50	<b>23.01</b>
			5	0	22.38	22.36	22.86
		3	0	0	22.43	22.38	22.91
			1	0	22.39	22.40	22.92
			3	0	22.37	22.43	22.97
	6	0	1	21.45	21.45	21.88	
	16QAM	1	0	1	21.22	21.22	21.67
			2	1	21.35	21.45	21.79
			5	1	21.21	21.26	21.62
		3	0	1	21.23	21.17	21.71
			1	1	21.23	21.17	21.72
			3	1	21.21	21.21	21.69
	6	0	2	20.28	20.44	20.75	
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel
20415						20525	20635
3MHz	QPSK	1	0	0	22.34	22.12	22.87
			8	0	22.27	22.39	22.92
			14	0	22.22	22.47	22.91
		8	0	1	21.36	21.23	21.86
			4	1	21.37	21.26	21.86
			7	1	21.32	21.40	21.81
	15	0	1	21.32	21.29	21.82	
	16QAM	1	0	1	21.39	21.17	21.74
			8	1	21.32	21.35	21.67
			14	1	21.16	21.47	21.65
		8	0	2	20.35	20.32	20.86
			4	2	20.33	20.34	20.91
			7	2	20.27	20.45	20.83
	15	0	2	20.22	20.33	20.78	

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Conducted Power of LTE Band 5(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					20425	20525	20625	
5MHz	QPSK	1	0	0	22.32	22.08	22.76	
			12	0	22.31	22.43	22.89	
			24	0	22.04	22.56	22.78	
		12	0	1	21.28	21.21	21.87	
			6	1	21.30	21.20	21.83	
			13	1	21.14	21.46	21.79	
		25	0	1	21.23	21.32	21.84	
		16QAM	1	0	1	21.32	21.01	21.82
				12	1	21.20	21.33	21.93
	24			1	20.95	21.45	21.79	
	12		0	2	20.17	20.18	20.92	
			6	2	20.20	20.20	20.94	
			13	2	20.14	20.46	20.85	
	25	0	2	20.22	20.37	20.87		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
20450						20525	20600	
10MHz	QPSK	1	0	0	22.34	22.05	22.68	
			25	0	22.11	22.52	22.85	
			49	0	22.00	22.84	22.89	
		25	0	1	21.23	21.18	21.80	
			13	1	21.27	21.20	21.82	
			25	1	20.99	21.62	21.86	
		50	0	1	21.06	21.38	21.83	
		16QAM	1	0	1	21.35	20.81	21.46
				25	1	21.12	21.31	21.76
	49			1	20.98	21.62	21.65	
	25		0	2	20.22	20.30	20.87	
			13	2	20.22	20.25	20.85	
			25	2	19.98	20.69	20.93	
	50	0	2	20.11	20.43	20.86		

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Conducted Power of LTE Band 7 (dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					20775	21100	21425	
5MHz	QPSK	1	0	0	21.99	21.27	21.86	
			12	0	22.30	21.35	21.50	
			24	0	22.30	21.05	21.28	
		12	0	1	21.13	20.31	20.55	
			6	1	21.12	20.32	20.47	
			13	1	21.33	20.29	20.55	
	25	0	1	21.19	20.33	20.64		
	16QAM	1	0	1	20.93	20.29	20.70	
			12	1	21.21	20.36	20.25	
			24	1	21.23	20.25	19.99	
		12	0	2	20.06	19.29	19.39	
			6	2	20.00	19.31	19.62	
			13	2	20.21	19.31	19.37	
		25	0	2	20.17	19.28	19.48	
		Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel
20800							21100	21400
10MHz	QPSK	1	0	0	22.02	21.50	22.03	
			24	0	<b>22.52</b>	21.32	21.56	
			49	0	22.25	21.31	21.15	
		25	0	1	21.26	20.37	20.82	
			12	1	21.26	20.42	20.94	
			25	1	21.44	20.37	20.53	
	50	0	1	21.33	20.38	20.98		
	16QAM	1	0	1	21.02	20.19	20.90	
			24	1	21.51	19.88	20.70	
			49	1	21.30	19.90	20.11	
		25	0	2	20.19	19.42	19.56	
			12	2	20.24	19.39	19.74	
			25	2	20.41	19.39	19.57	
		50	0	2	20.30	19.35	19.57	

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Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20825	21100	21375
15MHz	QPSK	1	0	0	22.04	21.18	21.57
			38	0	22.34	21.05	21.63
			74	0	21.97	20.73	21.18
		37	0	1	20.97	20.23	20.26
			18	1	21.03	20.21	20.60
			37	1	20.75	20.09	20.06
	75	0	1	21.41	20.46	20.58	
	16QAM	1	0	1	20.96	20.32	20.35
			38	1	21.32	20.40	20.65
			74	1	20.93	19.84	20.16
		37	0	2	20.90	20.04	20.25
			18	2	21.09	20.13	20.57
			37	2	20.56	19.83	20.08
	75	0	2	20.21	19.47	19.59	
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20850	21100	21350
20MHz	QPSK	1	0	0	22.03	21.40	21.00
			49	0	22.42	21.32	21.88
			99	0	21.70	20.83	21.09
		50	0	1	21.21	20.37	20.32
			25	1	21.22	20.38	20.44
			50	1	21.08	20.36	20.47
	100	0	1	21.18	20.34	20.39	
	16QAM	1	0	1	20.88	20.36	19.99
			49	1	21.32	20.37	20.65
			99	1	20.57	19.82	19.99
		50	0	2	20.19	19.41	19.52
			25	2	20.21	19.36	19.39
			50	2	20.08	19.34	19.41
	100	0	2	20.12	19.32	19.49	

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Conducted Power of LTE Band 12(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					23017	23095	23173	
1.4MHz	QPSK	1	0	0	23.21	23.40	22.71	
			2	0	23.38	23.15	22.81	
			5	0	23.20	22.99	22.62	
		3	0	0	23.29	23.24	22.59	
			1	0	23.29	23.06	22.62	
			3	0	23.00	22.95	22.55	
	6	0	1	22.08	22.02	21.78		
	16QAM	1	0	1	22.14	22.19	21.57	
			2	1	22.33	22.09	21.47	
			5	1	22.08	21.71	21.32	
		3	0	1	22.10	21.87	21.36	
			1	1	21.99	21.71	21.39	
			3	1	21.82	21.85	21.28	
		6	0	2	21.28	20.95	20.78	
		Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel
23025							23095	23165
3MHz	QPSK	1	0	0	23.28	23.42	22.95	
			8	0	23.31	23.39	22.75	
			14	0	23.32	23.38	22.42	
		8	0	1	22.29	22.23	21.81	
			4	1	22.28	22.39	21.84	
			7	1	22.31	22.37	21.56	
	15	0	1	22.27	22.41	21.70		
	16QAM	1	0	1	22.01	22.37	21.74	
			8	1	22.06	22.40	21.38	
			14	1	22.10	22.24	21.18	
		8	0	2	21.28	21.41	20.78	
			4	2	21.23	21.40	20.76	
			7	2	21.31	21.31	20.60	
		15	0	2	21.17	21.31	20.58	

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Conducted Power of LTE Band 12(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					23035	23095	23155	
5MHz	QPSK	1	0	0	23.16	23.36	23.07	
			12	0	23.40	23.45	22.78	
			24	0	23.31	23.25	22.33	
		12	0	1	22.25	22.40	21.88	
			6	1	22.29	22.41	21.78	
			13	1	22.36	22.41	21.32	
	25	0	1	22.31	22.43	21.83		
	16QAM	1	0	1	22.20	22.24	22.01	
			12	1	22.44	22.39	21.44	
			24	1	22.34	22.02	20.97	
		12	0	2	21.27	21.37	20.73	
			6	2	21.27	21.38	20.81	
			13	2	21.32	21.35	20.34	
		25	0	2	21.29	21.33	20.78	
		Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel
						23060	23095	23130
10MHz	QPSK	1	0	0	23.27	23.29	23.40	
			24	0	23.48	<b>23.60</b>	23.38	
			49	0	23.45	23.01	22.63	
		25	0	1	22.31	22.34	22.41	
			12	1	22.32	22.45	22.11	
			25	1	22.39	22.10	22.02	
	50	0	1	22.36	22.40	22.08		
	16QAM	1	0	1	22.01	22.32	22.16	
			24	1	22.21	22.51	22.05	
			49	1	22.17	22.02	21.16	
		25	0	2	21.33	21.29	21.36	
			12	2	21.32	21.45	21.09	
			25	2	21.40	21.08	21.03	
		50	0	2	21.37	21.43	21.14	

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Conducted Power of LTE Band 17(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					23755	23790	23825	
5MHz	QPSK	1	0	0	23.55	23.47	23.32	
			12	0	<b>23.75</b>	23.49	22.73	
			24	0	23.57	22.99	22.30	
		12	0	1	22.65	22.32	21.90	
			6	1	22.64	22.49	21.85	
			13	1	22.72	22.25	21.75	
		25	0	1	22.63	22.46	21.88	
		16QAM	1	0	1	22.53	22.62	21.78
				12	1	22.72	22.23	21.62
	24			1	22.51	22.10	21.61	
	12		0	2	21.61	21.45	20.92	
			6	2	21.57	21.41	20.75	
			13	2	21.62	21.15	20.87	
	25	0	2	21.68	21.36	20.73		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
23780						23790	23800	
10MHz	QPSK	1	0	0	23.58	23.62	23.58	
			24	0	23.67	23.67	23.13	
			49	0	23.06	23.02	22.32	
		25	0	1	22.68	22.53	22.28	
			12	1	22.68	22.73	22.25	
			25	1	22.46	22.41	21.82	
		50	0	1	22.60	22.22	22.30	
		16QAM	1	0	1	22.62	22.45	22.34
				24	1	22.73	22.28	21.95
	49			1	22.13	21.70	21.21	
	25		0	2	21.72	21.58	21.26	
			12	2	21.66	21.34	21.31	
			25	2	21.47	20.99	21.09	
	50		0	2	21.57	21.49	21.06	

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Conducted Power of LTE Band 25(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					26047	26365	26683	
1.4MHz	QPSK	1	0	0	21.31	21.67	21.73	
			2	0	21.53	21.78	21.87	
			5	0	21.30	21.66	21.23	
		3	0	0	21.42	21.77	21.21	
			1	0	21.20	21.81	21.13	
			3	0	21.10	21.46	21.14	
	6	0	1	20.27	20.65	20.24		
	16QAM	1	0	1	20.22	20.59	20.34	
			2	1	20.47	20.77	20.44	
			5	1	20.21	20.61	19.94	
		3	0	1	20.18	20.56	19.89	
			1	1	19.91	20.39	19.87	
			3	1	19.80	20.33	19.85	
		6	0	2	19.29	19.57	19.19	
		Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel
26055							26365	26675
3MHz	QPSK	1	0	0	21.33	21.78	21.34	
			8	0	21.37	21.43	21.09	
			14	0	21.32	21.33	21.14	
		8	0	1	20.34	20.35	20.14	
			4	1	20.33	20.49	20.15	
			7	1	20.36	20.47	20.15	
	15	0	1	20.31	20.27	20.04		
	16QAM	1	0	1	20.39	20.55	19.74	
			8	1	20.31	20.42	19.83	
			14	1	20.32	20.22	19.89	
		8	0	2	19.41	19.28	19.08	
			4	2	19.39	19.61	19.05	
			7	2	19.37	19.41	19.08	
		15	0	2	19.36	19.32	18.98	

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Conducted Power of LTE Band 25(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					26065	26365	26665	
5MHz	QPSK	1	0	0	21.31	21.68	21.36	
			12	0	21.46	21.74	21.63	
			24	0	21.35	21.47	21.22	
		12	0	1	20.23	20.29	20.12	
			6	1	20.26	20.48	20.24	
			13	1	20.43	20.68	20.36	
		25	0	1	20.33	20.70	20.42	
		16QAM	1	0	1	20.27	20.59	20.12
				12	1	20.35	20.37	20.04
	24			1	20.23	20.34	19.99	
	12		0	2	19.21	19.63	19.40	
			6	2	19.24	19.55	19.37	
			13	2	19.42	19.56	19.13	
	25	0	2	19.43	19.43	19.19		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26090	26365	26640	
10MHz	QPSK	1	0	0	21.39	21.88	21.43	
			24	0	21.52	21.86	21.21	
			49	0	21.49	21.62	21.26	
		25	0	1	20.22	20.76	19.88	
			12	1	20.21	20.70	20.20	
			25	1	20.54	20.76	20.18	
		50	0	1	20.35	20.79	20.25	
		16QAM	1	0	1	20.33	20.69	19.90
				24	1	20.59	20.62	20.05
	49			1	20.47	20.45	19.91	
	25		0	2	19.24	19.79	19.06	
			12	2	19.24	19.77	19.27	
			25	2	19.52	19.83	19.11	
	50		0	2	19.40	19.49	19.17	

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Conducted Power of LTE Band 25(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					26115	26365	26615	
15MHz	QPSK	1	0	0	21.31	21.81	21.35	
			38	0	21.44	21.68	21.31	
			74	0	21.79	21.40	21.29	
		38	0	1	20.33	20.97	19.65	
			18	1	20.45	20.64	19.84	
			37	1	20.76	20.45	19.76	
		75	0	1	20.44	20.75	19.91	
		16QAM	1	0	1	20.34	20.95	20.00
				38	1	20.41	20.83	20.05
	74			1	20.78	20.54	19.75	
	38		0	2	20.34	20.72	19.73	
			18	2	20.42	20.83	19.74	
			37	2	20.79	20.35	19.80	
	75	0	2	19.43	19.79	18.99		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
26140						26365	26590	
20MHz	QPSK	1	0	0	21.21	21.89	21.24	
			49	0	21.68	21.87	21.29	
			99	0	<b>21.93</b>	21.41	20.93	
		50	0	1	20.13	20.72	20.05	
			25	1	20.16	20.73	20.16	
			50	1	20.60	20.69	19.98	
		100	0	1	20.32	20.66	20.23	
		16QAM	1	0	1	20.10	20.97	20.10
				49	1	20.52	20.70	19.91
	99			1	20.82	20.44	19.73	
	50		0	2	19.15	19.78	19.13	
			25	2	19.16	19.71	19.13	
			50	2	19.58	19.78	18.94	
	100		0	2	19.28	19.73	18.91	

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Conducted Power of LTE Band 26A (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26797	26915	27033
1.4MHz	QPSK	1	0	0	22.37	22.36	23.00
			2	0	22.50	22.63	<b>23.11</b>
			5	0	22.28	22.50	22.99
		3	0	0	22.46	22.48	23.05
			1	0	22.44	22.47	23.04
			3	0	22.46	22.53	23.03
	6	0	1	21.50	21.52	21.97	
	16QAM	1	0	1	21.29	21.30	21.81
			2	1	21.40	21.49	21.93
			5	1	21.24	21.44	21.80
		3	0	1	21.21	21.24	21.82
			1	1	21.26	21.26	21.81
			3	1	21.19	21.31	21.81
	6	0	2	20.46	20.56	20.92	
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel
26805						26915	27025
3MHz	QPSK	1	0	0	22.45	22.33	23.08
			8	0	22.37	22.48	23.10
			14	0	22.31	22.67	23.07
		8	0	1	21.48	21.45	22.05
			4	1	21.48	21.43	22.06
			7	1	21.37	21.60	21.94
	15	0	1	21.41	21.50	21.97	
	16QAM	1	0	1	21.47	21.32	21.90
			8	1	21.36	21.49	21.85
			14	1	21.26	21.68	21.82
		8	0	2	20.47	20.47	21.08
			4	2	20.46	20.51	21.06
			7	2	20.38	20.64	21.04
		15	0	2	20.42	20.55	20.99

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Conducted Power of LTE Band 26A(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					26815	26915	27015	
5MHz	QPSK	1	0	0	22.43	22.22	22.93	
			12	0	22.45	22.62	23.09	
			24	0	22.14	22.75	22.94	
		12	0	1	21.45	21.37	22.06	
			6	1	21.46	21.35	22.04	
			13	1	21.26	21.66	21.97	
		25	0	1	21.34	21.51	22.02	
		16QAM	1	0	1	21.43	21.14	21.98
				12	1	21.30	21.53	22.13
	24			1	21.08	21.72	22.02	
	12		0	2	20.34	20.42	21.13	
			6	2	20.35	20.39	21.13	
			13	2	20.27	20.63	21.05	
	25	0	2	20.36	20.57	21.08		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
26840						26915	26990	
10MHz	QPSK	1	0	0	22.42	22.14	22.91	
			24	0	22.24	22.83	23.04	
			49	0	22.15	23.02	22.71	
		25	0	1	21.29	21.30	21.67	
			12	1	21.30	21.40	21.79	
			25	1	21.11	21.80	21.85	
		50	0	1	21.16	21.62	21.57	
		16QAM	1	0	1	21.45	20.94	21.37
				24	1	21.27	21.56	21.64
	49			1	21.17	21.74	21.37	
	25		0	2	20.33	20.49	20.61	
			12	2	20.33	20.47	20.58	
			25	2	20.14	20.88	20.68	
	50		0	2	20.23	20.66	20.55	

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Conducted Power of LTE Band 26A(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					26865	26915	26965	
15MHz	QPSK	1	0	0	22.35	21.84	21.89	
			38	0	22.10	22.16	22.69	
			74	0	22.75	22.56	22.47	
		38	0	1	21.10	20.62	20.94	
			18	1	20.82	21.21	21.75	
			37	1	21.32	21.84	21.62	
		75	0	1	20.95	21.22	21.56	
		16QAM	1	0	1	21.16	20.68	20.91
				38	1	20.87	21.30	21.72
	74			1	21.49	21.54	21.62	
	38		0	2	20.85	20.65	20.94	
			18	2	20.72	21.40	21.75	
			37	2	21.23	21.54	21.63	
	75	0	2	20.06	20.14	20.52		

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Conducted Power of LTE Band 26B(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					26697	26740	26783	
1.4MHz	QPSK	1	0	0	22.95	22.67	22.44	
			2	0	<b>23.04</b>	22.85	22.41	
			5	0	22.85	22.61	22.38	
		3	0	0	22.72	22.76	22.49	
			1	0	22.72	22.72	22.54	
			3	0	22.72	22.68	22.42	
		6	0	1	21.94	21.78	21.57	
		16QAM	1	0	1	21.55	21.59	21.41
				2	1	21.80	21.74	21.52
	5			1	21.53	21.57	21.35	
	3		0	1	21.50	21.55	21.34	
			1	1	21.51	21.58	21.35	
			3	1	21.51	21.50	21.29	
	6	0	2	20.66	20.76	20.54		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					26705	26740	26775	
3MHz	QPSK	1	0	0	22.91	22.78	22.66	
			8	0	22.90	22.68	22.57	
			14	0	22.77	22.65	22.53	
		8	0	1	21.93	21.81	21.63	
			4	1	21.96	21.82	21.64	
			7	1	21.91	21.75	21.53	
		15	0	1	21.81	21.77	21.58	
		16QAM	1	0	1	21.56	21.80	21.59
				8	1	21.62	21.75	21.41
	14			1	21.61	21.71	21.38	
	8		0	2	20.78	20.81	20.58	
			4	2	20.81	20.84	20.59	
			7	2	20.81	20.75	20.53	
	15		0	2	20.66	20.74	20.48	

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Conducted Power of LTE Band 26B(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					26715	26740	26765	
5MHz	QPSK	1	0	0	22.83	22.66	22.67	
			12	0	22.85	22.75	22.66	
			24	0	22.71	22.55	22.44	
		12	0	1	21.85	21.66	21.71	
			6	1	21.83	21.78	21.69	
			13	1	21.78	21.76	21.57	
		25	1	21.79	21.82	21.66		
		16QAM	1	0	1	21.69	21.73	21.57
				12	1	21.79	21.84	21.59
	24			1	21.69	21.66	21.18	
	12		0	2	20.72	20.80	20.67	
			6	2	20.75	20.79	20.63	
			13	2	20.69	20.72	20.56	
	25	2	20.80	20.74	20.65			
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
10MHz	QPSK	1	0	0	26740			
			24	0	23.01			
			49	0	22.93			
		25	0	1	22.57			
			12	1	21.91			
			25	1	21.94			
		50	1	21.79				
		16QAM	1	0	1	21.79		
				24	1	21.65		
	49			1	21.73			
	25		0	2	21.36			
			12	2	20.90			
			25	2	20.91			
	50		2	20.77				
	50		2	20.80				

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Conducted Power of LTE Band 26B(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					26765			
15MHz	QPSK	1	0	0	22.78			
			38	0	22.65			
			74	0	22.14			
		38	0	1	21.53			
			18	1	21.46			
			37	1	20.90			
		75	1	21.77				
		16QAM	1	0	1	21.50		
				38	1	21.51		
	74			1	20.92			
	38		0	2	21.54			
			18	2	21.48			
			37	2	20.89			
	75	2	20.69					

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Conducted Power of LTE Band 66(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					131979	132322	132665	
1.4MHz	QPSK	1	0	0	21.24	20.98	21.46	
			2	0	21.40	21.12	<b>21.54</b>	
			5	0	21.16	20.98	21.48	
		3	0	0	21.33	21.04	21.51	
			1	0	21.34	21.06	21.53	
			3	0	21.30	21.03	21.53	
		6	0	1	20.31	20.07	20.46	
		16QAM	1	0	1	20.15	19.77	20.24
				2	1	20.29	19.99	20.43
	5			1	20.08	19.82	20.28	
	3		0	1	20.14	19.81	20.30	
			1	1	20.13	19.76	20.34	
			3	1	20.10	19.79	20.30	
	6	0	2	19.33	19.02	19.30		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
131987						132322	132657	
3MHz	QPSK	1	0	0	21.26	20.98	21.43	
			8	0	21.23	20.97	21.52	
			14	0	21.21	20.96	21.50	
		8	0	1	20.27	20.03	20.38	
			4	1	20.30	19.98	20.34	
			7	1	20.25	19.99	20.39	
		15	0	1	20.21	19.94	20.37	
		16QAM	1	0	1	20.26	19.97	20.33
				8	1	20.21	19.93	20.28
	14			1	20.20	19.91	20.30	
	8		0	2	19.28	19.06	19.38	
			4	2	19.29	19.06	19.39	
			7	2	19.18	19.04	19.44	
	15		0	2	19.19	19.01	19.29	

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Conducted Power of LTE Band 66(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					131997	132322	132647	
5MHz	QPSK	1	0	0	21.19	20.96	21.23	
			12	0	21.24	21.07	21.47	
			24	0	21.12	21.00	21.39	
		12	0	1	20.27	20.03	20.37	
			6	1	20.29	19.95	20.38	
			13	1	20.18	19.92	20.42	
		25	0	1	20.22	19.99	20.44	
		16QAM	1	0	1	20.18	19.88	20.29
				12	1	20.24	19.99	20.51
	24			1	19.98	19.87	20.44	
	12		0	2	19.23	19.01	19.40	
			6	2	19.19	18.98	19.38	
			13	2	19.18	18.88	19.49	
	25	0	2	19.25	19.04	19.46		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
132022						132322	132622	
10MHz	QPSK	1	0	0	21.21	21.12	21.39	
			24	0	21.24	21.13	21.51	
			49	0	21.10	21.07	21.48	
		25	0	1	20.29	20.10	20.32	
			12	1	20.25	20.11	20.33	
			25	1	20.22	19.94	20.54	
		50	0	1	20.23	20.00	20.36	
		16QAM	1	0	1	20.29	20.11	20.28
				24	1	20.27	20.14	20.34
	49			1	20.12	20.05	20.30	
	25		0	2	19.22	19.07	19.37	
			12	2	19.23	19.05	19.38	
			25	2	19.17	18.87	19.60	
	50		0	2	19.22	18.95	19.44	

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Conducted Power of LTE Band 66(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					132047	132322	132597	
15MHz	QPSK	1	0	0	21.15	21.22	21.33	
			38	0	21.09	21.00	21.35	
			74	0	21.17	21.15	21.32	
		38	0	1	20.19	20.23	20.51	
			18	1	20.17	20.05	20.45	
			37	1	20.18	20.13	20.49	
		75	0	1	20.21	20.22	20.49	
		16QAM	1	0	1	20.19	20.21	20.49
				38	1	20.14	19.98	20.50
	74			1	20.19	20.17	20.46	
	38		0	2	20.22	20.23	20.50	
			18	2	20.16	20.01	20.47	
			37	2	20.19	20.14	20.49	
	75	0	2	19.16	19.11	19.45		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					132072	132322	132572	
20MHz	QPSK	1	0	0	21.08	21.31	21.37	
			49	0	21.27	21.16	21.51	
			99	0	21.13	21.26	21.31	
		50	0	1	20.15	20.24	20.46	
			25	1	20.16	20.28	20.43	
			50	1	20.36	19.96	20.49	
		100	0	1	20.26	20.06	20.45	
		16QAM	1	0	1	20.04	20.20	20.42
				49	1	20.23	20.03	20.73
	99			1	20.08	20.15	20.40	
	50		0	2	19.17	19.23	19.51	
			25	2	19.20	19.22	19.53	
			50	2	19.37	18.90	19.52	
	100	0	2	19.28	19.09	19.49		

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The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1 of the 3GPP TS36.101.

**Table 6.2.3.3-1 Maximum Power Reduction (MPR) for Power class3**

Modulation	Maximum Power Reduction (MPR) for Power[RB]						MPR(dB)
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
QPSK	>5	>4	>8	>12	>16	>18	≤1
16QAM	≤5	≤4	≤8	≤12	≤16	≤18	≤1
16QAM	>5	>4	>8	>12	>16	>18	≤2

The allowed A-MPR values specified below in Table 6.2.4.3-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS\_01".3

**Table 6.2.4.3-1: Additional Maximum Power Reduction (A-MPR) / Spectrum Emission requirements**

Network Signaling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks ( $N_{RB}$ )	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.2-1	1.4,3,5,10,15,20	Table 5.4.2-1	N/A
NS_03	6.6.2.2.3.1	2,4,10, 23, 25,35,36	3	>5	$\leq 1$
			5	>6	$\leq 1$
			10	>6	$\leq 1$
			15	>8	$\leq 1$
			20	>10	$\leq 1$
NS_04	6.6.2.2.3.2	41	5	>6	$\leq 1$
			10, 15, 20	Table 6.2.4.3-4	
NS_05	6.6.3.3.3.1	1	10,15,20	$\geq 50$	$\leq 1$
NS_06	6.6.2.2.3.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.4.2-1	N/A
NS_07	6.6.2.2.3.3 6.6.3.3.3.2	13	10	Table 6.2.4.3-2	Table 6.2.4.3-2
NS_08	6.6.3.3.3.3	19	10, 15	> 44	$\leq 3$
NS_09	6.6.3.3.3.4	21	10, 15	> 40	$\leq 1$
				> 55	$\leq 2$
				Table 6.2.4.3-3	
NS_10		20	15, 20	Table 6.2.4.3-3	Table 6.2.4.3-3
NS_11	6.6.2.2.1 6.6.3.3.13	231	1.4, 3, 5, 10,15,20	Table 6.2.4.3-5	Table 6.2.4.3-5
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4.3-6	Table 6.2.4.3-6
NS_13	6.6.3.3.6	26	5	Table 6.2.4.3-7	Table 6.2.4.3-7
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4.3-8	Table 6.2.4.3-8
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4.3-9 Table 6.2.4.3-10	Table 6.2.4.3-9, Table 6.2.4.3-10
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4.3-11, Table 6.2.4.3-12, Table 6.2.4.3-13	
NS_17	6.6.3.3.10	28	5, 10	Table 5.4.2-1	N/A
	6.6.3.3.11	28	5	$\geq 2$	$\leq 1$
NS_18			10, 15, 20	$\geq 1$	$\leq 4$
NS_19			10, 15, 20	Table 6.2.4.3-15	Table 6.2.4.3-15
NS_20			5, 10, 15, 20	Table 6.2.4.3-14	Table 6.2.4.3-14
...					
NS_20	-	-	-	-	-

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**WIFI**

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	15.82
		06	2437	<b>15.92</b>
		11	2462	15.28
802.11g	6	01	2412	13.21
		06	2437	13.87
		11	2462	13.28
802.11n(20)	6.5	01	2412	13.45
		06	2437	13.88
		11	2462	13.32
802.11n(40)	13.5	03	2422	13.80
		06	2437	10.67
		09	2452	10.89

**Bluetooth\_V5.0(BR/EDR)**

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	<b>3.058</b>
	39	2441	1.222
	78	2480	-0.975
π /4-DQPSK	0	2402	2.392
	39	2441	0.612
	78	2480	-1.031
8-DPSK	0	2402	2.274
	39	2441	0.585
	78	2480	-1.095

**Bluetooth\_V5.0(BLE)**

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK 1M	0	2402	-1.900
	19	2440	<b>-1.733</b>
	39	2480	-2.460
GFSK 2M	0	2402	-2.062
	19	2440	-1.814
	39	2480	-2.471

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## 13. TEST RESULTS

### 13.1. SAR Test Results Summary

#### 13.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE 1528-2013, Body-worn and 4 Edges SAR was performed with the device 10mm from the phantom.

#### 13.1.2. Operation Mode

1. Per KDB 447498 D04 v01 ,for each exposure position, if the highest 1-g SAR is  $\leq 0.8$  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  $\geq 0.8$ W/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  $\geq 0.8$ W/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  $\geq 1.45$  W/kg.
  - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is  $\geq 1.5$  W/kg and ratio of largest to smallest SAR for the original, first and second measurement is  $\geq 1.20$ .
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
4. Per KDB 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is  $\leq 1.2$ W/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  $\leq 1.2$ W/kg.
6. Per KDB 941225 D06 V02r01, When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.
7. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:  
Maximum Scaling SAR =tested SAR (Max.)  $\times$  [maximum turn-up power (mw)/ maximum measurement output power(mw) ]
8. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
9. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
10. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
11. Per KDB 941125 D05v02r05. For QPSK with 100% RB allocation. SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and

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1RB allocation and the highest reported SAR is  $>1.45$  W/kg, the remaining required test channels must also be tested.

12. Per KDB 941125 D05v02r05. 16QAM output power for each RB allocation configuration is not 1/2 dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$ W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
13. Per KDB 941125 D05v02r05. Smaller bandwidth output power for each RB allocation configuration is  $>$ not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$ W/kg. Per KDB 941125 D05v02r05, smaller bandwidth SAR testing is not required.

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### 13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 56.3				
Product: Smart Phone									
Test Mode: GSM850 with GMSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
<b>SIM 1 Card</b>									
Left Cheek	voice	190	836.6	0.15	0.392	32.80	32.75	0.397	1.6
Left Tilt	voice	190	836.6	-0.07	0.297	32.80	32.75	0.300	1.6
Right Cheek	voice	190	836.6	0.14	<b>0.404</b>	32.80	32.75	<b>0.409</b>	1.6
Right Tilt	voice	190	836.6	-0.01	0.239	32.80	32.75	0.242	1.6
Body back	voice	190	836.6	-0.12	0.214	32.80	32.75	0.216	1.6
Body front	voice	190	836.6	0.18	0.228	32.80	32.75	0.231	1.6
Body back	GPRS-2 slot	190	836.6	0.16	0.279	30.70	30.42	0.298	1.6
Body front	GPRS-2 slot	190	836.6	-0.09	<b>0.284</b>	30.70	30.42	<b>0.303</b>	1.6
Edge 2(Right)	GPRS-2 slot	190	836.6	-0.08	0.159	30.70	30.42	0.170	1.6
Edge 3(Bottom)	GPRS-2 slot	190	836.6	-0.17	0.054	30.70	30.42	0.058	1.6
Edge 4(Left)	GPRS-2 slot	190	836.6	0.04	0.156	30.70	30.42	0.166	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, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 61.5				
Product: Smart 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)
<b>SIM 1 Card</b>									
Left Cheek	voice	661	1880.0	-0.12	0.053	29.30	29.05	0.056	1.6
Left Tilt	voice	661	1880.0	0.05	0.046	29.30	29.05	0.049	1.6
Right Cheek	voice	661	1880.0	-0.14	<b>0.065</b>	29.30	29.05	<b>0.069</b>	1.6
Right Tilt	voice	661	1880.0	0.17	0.054	29.30	29.05	0.057	1.6
Body back	voice	661	1880.0	-0.01	0.345	29.30	29.05	0.365	1.6
Body front	voice	661	1880.0	0.08	0.175	29.30	29.05	0.185	1.6
Body back	GPRS-3 slot	661	1880	-0.13	<b>0.494</b>	26.40	26.24	<b>0.513</b>	1.6
Body front	GPRS-3 slot	661	1880.0	-0.06	0.271	26.40	26.24	0.281	1.6
Edge 2(Right)	GPRS-3 slot	661	1880.0	-0.05	0.166	26.40	26.24	0.172	1.6
Edge 3(Bottom)	GPRS-3 slot	661	1880.0	-0.12	0.302	26.40	26.24	0.313	1.6
Edge 4(Left)	GPRS-3 slot	661	1880.0	0.04	0.146	26.40	26.24	0.151	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 61.5				
Product: Smart Phone									
Test Mode: WCDMA Band II with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<math>\pm 5\%</math>)	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	0.18	0.173	21.90	21.78	0.178	1.6
Left Tilt	RMC 12.2kbps	9400	1880	-0.05	0.134	21.90	21.78	0.138	1.6
Right Cheek	RMC 12.2kbps	9400	1880	0.24	<b>0.204</b>	21.90	21.78	<b>0.210</b>	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-0.17	0.172	21.90	21.78	0.177	1.6
Body back	RMC 12.2kbps	9400	1880	0.21	<b>0.538</b>	21.90	21.78	<b>0.553</b>	1.6
Body front	RMC 12.2kbps	9400	1880	-0.12	0.323	21.90	21.78	0.332	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	-0.19	0.155	21.90	21.78	0.159	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	-0.15	0.427	21.90	21.78	0.439	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	0.03	0.186	21.90	21.78	0.191	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 61.2				
Product: Smart Phone									
Test Mode: WCDMA Band IV 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	8662	1732.4	0.17	0.122	22.30	21.95	0.132	1.6
Left Tilt	RMC 12.2kbps	8662	1732.4	-0.04	0.045	22.30	21.95	0.049	1.6
Right Cheek	RMC 12.2kbps	8662	1732.4	0.12	<b>0.153</b>	22.30	21.95	<b>0.166</b>	1.6
Right Tilt	RMC 12.2kbps	8662	1732.4	-0.15	0.055	22.30	21.95	0.060	1.6
Body back	RMC 12.2kbps	8662	1732.4	0.18	<b>0.474</b>	22.30	21.95	<b>0.514</b>	1.6
Body front	RMC 12.2kbps	8662	1732.4	-0.03	0.234	22.30	21.95	0.254	1.6
Edge 2(Right)	RMC 12.2kbps	8662	1732.4	-0.16	0.145	22.30	21.95	0.157	1.6
Edge 3(Bottom)	RMC 12.2kbps	8662	1732.4	0.19	0.244	22.30	21.95	0.264	1.6
Edge 4(Left)	RMC 12.2kbps	8662	1732.4	0.05	0.072	22.30	21.95	0.078	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 56.3				
Product: Smart Phone									
Test Mode: WCDMA Band V with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<math>\pm 5\%</math>)	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	836.4	-0.19	0.294	23.10	22.84	0.312	1.6
Left Tilt	RMC 12.2kbps	4183	836.4	0.01	0.193	23.10	22.84	0.205	1.6
Right Cheek	RMC 12.2kbps	4183	836.4	-0.14	<b>0.386</b>	23.10	22.84	<b>0.410</b>	1.6
Right Tilt	RMC 12.2kbps	4183	836.4	0.01	0.235	23.10	22.84	0.249	1.6
Body back	RMC 12.2kbps	4183	836.4	0.15	0.240	23.10	22.84	0.255	1.6
Body front	RMC 12.2kbps	4183	836.4	-0.02	<b>0.259</b>	23.10	22.84	<b>0.275</b>	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.4	-0.13	0.114	23.10	22.84	0.121	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.4	0.18	0.058	23.10	22.84	0.062	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.4	0.07	0.114	23.10	22.84	0.121	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 55.7						
Product: Smart Phone												
Test Mode: LTE Band 2												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	18900	1880	0.14	0.088	21.80	21.10	0.103	1.6
		Left Tilt	1	0	18900	1880	-0.08	0.058	21.80	21.10	0.068	1.6
		Right Cheek	1	0	18900	1880	0.02	<b>0.161</b>	21.80	21.10	<b>0.189</b>	1.6
		Right Tilt	1	0	18900	1880	-0.13	0.071	21.80	21.10	0.083	1.6
		Body back	1	0	18900	1880	-0.06	<b>0.332</b>	21.80	21.10	<b>0.390</b>	1.6
		Body front	1	0	18900	1880	0.15	0.220	21.80	21.10	0.258	1.6
		Edge 2(Right)	1	0	18900	1880	-0.04	0.159	21.80	21.10	0.187	1.6
		Edge 3(Bottom)	1	0	18900	1880	-0.01	0.298	21.80	21.10	0.350	1.6
		Edge 4(Left)	1	0	18900	1880	0.02	0.051	21.80	21.10	0.060	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 61.2						
Product: Smart Phone												
Test Mode: LTE Band 4												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	20175	1732.5	0.01	0.047	21.50	21.19	0.050	1.6
		Left Tilt	1	0	20175	1732.5	-0.04	0.040	21.50	21.19	0.043	1.6
		Right Cheek	1	0	20175	1732.5	0.07	<b>0.094</b>	21.50	21.19	<b>0.101</b>	1.6
		Right Tilt	1	0	20175	1732.5	-0.02	0.060	21.50	21.19	0.064	1.6
		Body back	1	0	20175	1732.5	0.05	0.343	21.50	21.19	0.368	1.6
		Body front	1	0	20175	1732.5	0.06	0.233	21.50	21.19	0.250	1.6
		Edge 2(Right)	1	0	20175	1732.5	0.05	0.085	21.50	21.19	0.091	1.6
		Edge 3(Bottom)	1	0	20175	1732.5	-0.09	<b>0.472</b>	21.50	21.19	<b>0.507</b>	1.6
Edge 4(Left)	1	0	20175	1732.5	-0.05	0.038	21.50	21.19	0.041	1.6		

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 59.2						
Product: Smart Phone												
Test Mode: LTE Band 5												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Left Cheek	1	0	20525	836.5	0.13	0.348	22.10	22.05	0.352	1.6
		Left Tilt	1	0	20525	836.5	-0.15	0.245	22.10	22.05	0.248	1.6
		Right Cheek	1	0	20525	836.5	0.18	<b>0.396</b>	22.10	22.05	<b>0.401</b>	1.6
		Right Tilt	1	0	20525	836.5	-0.07	0.198	22.10	22.05	0.200	1.6
		Body back	1	0	20525	836.5	0.14	0.280	22.10	22.05	0.283	1.6
		Body front	1	0	20525	836.5	-0.22	<b>0.297</b>	22.10	22.05	<b>0.300</b>	1.6
		Edge 2(Right)	1	0	20525	836.5	-0.16	0.144	22.10	22.05	0.146	1.6
		Edge 3(Bottom)	1	0	20525	836.5	-0.09	0.085	22.10	22.05	0.086	1.6
		Edge 4(Left)	1	0	20525	836.5	0.15	0.136	22.10	22.05	0.138	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 56.7						
Product: Smart Phone												
Test Mode: LTE Band 7												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<math>\pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	21100	2535	0.29	0.266	21.50	21.40	0.272	1.6
		Left Tilt	1	0	21100	2535	-0.11	0.183	21.50	21.40	0.187	1.6
		Right Cheek	1	0	21100	2535	0.25	<b>0.280</b>	21.50	21.40	<b>0.287</b>	1.6
		Right Tilt	1	0	21100	2535	-0.17	0.234	21.50	21.40	0.239	1.6
		Body back	1	0	21100	2535	0.24	<b>0.741</b>	21.50	21.40	<b>0.758</b>	1.6
		Body front	1	0	21100	2535	-0.11	0.397	21.50	21.40	0.406	1.6
		Edge 2(Right)	1	0	21100	2535	-0.12	0.328	21.50	21.40	0.336	1.6
		Edge 3(Bottom)	1	0	21100	2535	-0.13	0.026	21.50	21.40	0.027	1.6
		Edge 4(Left)	1	0	21100	2535	0.16	0.427	21.50	21.40	0.437	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 54.7						
Product: Smart Phone												
Test Mode: LTE Band 12												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<math>\pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Left Cheek	1	0	23095	707.5	-0.12	0.227	23.30	23.29	0.228	1.6
		Left Tilt	1	0	23095	707.5	0.07	0.192	23.30	23.29	0.192	1.6
		Right Cheek	1	0	23095	707.5	-0.14	<b>0.385</b>	23.30	23.29	<b>0.386</b>	1.6
		Right Tilt	1	0	23095	707.5	0.11	0.347	23.30	23.29	0.348	1.6
		Body back	1	0	23095	707.5	0.15	<b>0.119</b>	23.30	23.29	<b>0.119</b>	1.6
		Body front	1	0	23095	707.5	0.13	0.097	23.30	23.29	0.097	1.6
		Edge 2(Right)	1	0	23095	707.5	-0.08	0.059	23.30	23.29	0.059	1.6
		Edge 3(Bottom)	1	0	23095	707.5	0.15	0.086	23.30	23.29	0.086	1.6
		Edge 4(Left)	1	0	23095	707.5	0.02	0.118	23.30	23.29	0.118	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 54.7						
Product: Smart Phone												
Test Mode: LTE Band 17												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<math>\pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Left Cheek	1	0	23790	710	0.10	<b>0.171</b>	23.80	23.62	<b>0.178</b>	1.6
		Left Tilt	1	0	23790	710	-0.02	0.151	23.80	23.62	0.157	1.6
		Right Cheek	1	0	23790	710	0.15	0.159	23.80	23.62	0.166	1.6
		Right Tilt	1	0	23790	710	-0.07	0.111	23.80	23.62	0.116	1.6
		Body back	1	0	23790	710	0.14	0.131	23.80	23.62	0.137	1.6
		Body front	1	0	23790	710	-0.01	0.122	23.80	23.62	0.127	1.6
		Edge 2(Right)	1	0	23790	710	-0.05	0.122	23.80	23.62	0.127	1.6
		Edge 3(Bottom)	1	0	23790	710	0.16	0.049	23.80	23.62	0.051	1.6
		Edge 4(Left)	1	0	23790	710	-0.04	<b>0.145</b>	23.80	23.62	<b>0.151</b>	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 55.7						
Product: Smart Phone												
Test Mode: LTE Band 25												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<math>\pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	26365	1882.5	0.18	0.118	22.00	21.89	0.121	1.6
		Left Tilt	1	0	26365	1882.5	-0.05	0.050	22.00	21.89	0.051	1.6
		Right Cheek	1	0	26365	1882.5	0.17	<b>0.160</b>	22.00	21.89	<b>0.164</b>	1.6
		Right Tilt	1	0	26365	1882.5	-0.04	0.025	22.00	21.89	0.026	1.6
		Body back	1	0	26365	1882.5	0.11	0.457	22.00	21.89	0.469	1.6
		Body front	1	0	26365	1882.5	-0.02	0.272	22.00	21.89	0.279	1.6
		Edge 2(Right)	1	0	26365	1882.5	0.16	0.025	22.00	21.89	0.026	1.6
		Edge 3(Bottom)	1	0	26365	1882.5	-0.05	<b>0.674</b>	22.00	21.89	<b>0.691</b>	1.6
		Edge 4(Left)	1	0	26365	1882.5	-0.03	0.024	22.00	21.89	0.025	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 59.2						
Product: LTE smartphone												
Test Mode: LTE Band 26A												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
15	QPSK	Left Cheek	1	0	26915	836.5	0.04	<b>0.419</b>	21.90	21.84	<b>0.425</b>	1.6
		Left Tilt	1	0	26915	836.5	0.12	0.347	21.90	21.84	0.352	1.6
		Right Cheek	1	0	26915	836.5	0.29	0.284	21.90	21.84	0.288	1.6
		Right Tilt	1	0	26915	836.5	0.16	0.314	21.90	21.84	0.318	1.6
		Body back	1	0	26915	836.5	0.23	<b>0.276</b>	21.90	21.84	<b>0.280</b>	1.6
		Body front	1	0	26915	836.5	0.15	0.200	21.90	21.84	0.203	1.6
		Edge 2(Right)	1	0	26915	836.5	0.12	0.195	21.90	21.84	0.198	1.6
		Edge 3(Bottom)	1	0	26915	836.5	0.14	0.128	21.90	21.84	0.130	1.6
		Edge 4(Left)	1	0	26915	836.5	0.01	0.094	21.90	21.84	0.095	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, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 59.2						
Product: LTE smartphone												
Test Mode: LTE Band 26B												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<math>\pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
15	QPSK	Left Cheek	1	0	26765	821.5	0.18	0.148	23.10	22.78	0.159	1.6
		Left Tilt	1	0	26765	821.5	-0.22	0.154	23.10	22.78	0.166	1.6
		Right Cheek	1	0	26765	821.5	0.29	0.131	23.10	22.78	0.141	1.6
		Right Tilt	1	0	26765	821.5	-0.15	<b>0.162</b>	23.10	22.78	<b>0.174</b>	1.6
		Body back	1	0	26765	821.5	0.12	<b>0.272</b>	23.10	22.78	<b>0.293</b>	1.6
		Body front	1	0	26765	821.5	-0.14	0.193	23.10	22.78	0.208	1.6
		Edge 2(Right)	1	0	26765	821.5	-0.11	0.157	23.10	22.78	0.169	1.6
		Edge 3(Bottom)	1	0	26765	821.5	-0.15	0.124	23.10	22.78	0.133	1.6
		Edge 4(Left)	1	0	26765	821.5	0.08	0.085	23.10	22.78	0.091	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 61.2						
Product: LTE smartphone												
Test Mode: LTE Band 66												
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	132322	1755	0.17	0.211	21.60	21.31	0.226	1.6
		Left Tilt	1	0	132322	1755	-0.03	0.046	21.60	21.31	0.049	1.6
		Right Cheek	1	0	132322	1755	0.15	<b>0.311</b>	21.60	21.31	<b>0.332</b>	1.6
		Right Tilt	1	0	132322	1755	-0.07	0.029	21.60	21.31	0.031	1.6
		Body back	1	0	132322	1755	0.14	<b>0.574</b>	21.60	21.31	<b>0.614</b>	1.6
		Body front	1	0	132322	1755	-0.01	0.415	21.60	21.31	0.444	1.6
		Edge 2(Right)	1	0	132322	1755	0.15	0.140	21.60	21.31	0.150	1.6
		Edge 3(Bottom)	1	0	132322	1755	-0.08	0.519	21.60	21.31	0.555	1.6
		Edge 4(Left)	1	0	132322	1755	-0.16	0.145	21.60	21.31	0.155	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, body front and 4 Edges is 10mm of all above table

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## SAR Test Exclusion Consideration

According to KDB 447498 D04 Appendix B, Standalone SAR test exclusion is as follow:  
This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula

$$ERP_{20\text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

$$P_{th} (\text{mW}) = \begin{cases} ERP_{20\text{ cm}} (d/20\text{ cm})^x & d \leq 20\text{ cm} \\ ERP_{20\text{ cm}} & 20\text{ cm} < d \leq 40\text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20\text{ cm}} \sqrt{f}} \right)$$

For instance, a given antenna may qualify for a SAR-based exemption according to Section B.4, with  $P_{ant} < P_{th}$ , where  $P_{ant}$  is maximum time-averaged power or effective radiated power (ERP), whichever is greater, and  $P_{th}$  is defined in Formula (B.2).

Technology	f(GHz)	d(cm)	ERP <sub>20CM</sub> (mW)	√f(GHz)	x	P <sub>th</sub> (mW)	Max P <sub>ant</sub>		SAR required
							dBm	mW	
2.4GHz WIFI	2.437	0.5	3060	1.561	1.901	2.756	15.920	39.084	Yes
BT(BR&EDR)	2.402	0.5	3060	1.550	1.898	2.788	3.058	2.022	No
BT(BLE)	2.440	0.5	3060	1.562	1.901	2.753	-1.733	0.671	No

### Conclusion

There is need to test standalone WIFI SAR and need to evaluate simultaneous transmission

SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 62.3				
Product: Smart Phone									
Test Mode:802.11b									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	DTS	6	2437	0.09	<b>0.234</b>	16.00	15.92	<b>0.238</b>	1.6
Left Tilt	DTS	6	2437	-0.02	0.152	16.00	15.92	0.155	1.6
Right Cheek	DTS	6	2437	0.05	0.084	16.00	15.92	0.086	1.6
Right Tilt	DTS	6	2437	-0.03	0.076	16.00	15.92	0.077	1.6
Body back	DTS	6	2437	0.08	0.210	16.00	15.92	0.214	1.6
Body front	DTS	6	2437	-0.01	0.157	16.00	15.92	0.160	1.6
Edge 1 (Top)	DTS	6	2437	0.09	0.135	16.00	15.92	0.138	1.6
Edge 2(Right)	DTS	6	2437	-0.02	<b>0.270</b>	16.00	15.92	<b>0.275</b>	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, body front and 4 Edges is 10mm of all above table.

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**Simultaneous Multi-band Transmission Evaluation:**  
**Application Simultaneous Transmission information:**

NO	Simultaneous state	Portable Handset		
		Head	Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz (data)	Yes	Yes	-
2	GSM(voice)+ Bluetooth(data)	Yes	Yes	-
3	GSM (Data) + WLAN 2.4GHz (data)	-	Yes	Yes
4	GSM (Data) + Bluetooth(data)	-	Yes	Yes
5	WCDMA+ WLAN 2.4GHz (data)	Yes	Yes	Yes
6	WCDMA+ Bluetooth(data)	Yes	Yes	Yes
7	LTE + WLAN 2.4GHz (data)	Yes	Yes	Yes
8	LTE + Bluetooth(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 D04, 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 10mm for body-worn SAR.
4. 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  $(SAR1 + SAR2)1.5/R_i$ , rounded to two decimal digits, and must be  $\leq 0.04$  for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.
5. According to KDB 447498 D04 Appendix E, When the standalone 1g SAR test exclusion is applied, the standalone 1g SAR must be estimated according to the following equation, with  $P_{ant} < P_{th}$ , where  $P_{ant}$  is maximum time-averaged power or effective radiated power (ERP), whichever is greater, and  $P_{th}$  is defined in Formula (B.2). According to Section B.4 with  $P_{ant} < P_{th}$ , the estimated SAR is computed as  $SAR_{est} = 1.6 \times P_{ant} / P_{th}$  [W/kg].

For BT(BR&EDR) head : Estimated 1g SAR =  $1.6 \times (2.022/2.788) = 1.160$ W/kg

For BT(BR&EDR) body : Estimated 1g SAR=  $1.6 \times (2.022/10.389) = 0.311$  W/kg

For BT(BLE) head : Estimated 1g SAR =  $1.6 \times (0.671/2.753) = 0.390$  W/kg

For BT(BLE) body: Estimated 1g SAR =  $1.6 \times (0.671/10.283) = 0.104$  W/kg

**Sum of the SAR for WWAN &BT**

	Highest Reported 1g-SAR(W/kg)-WWAN	Estimated 1g BT SAR (W/kg)	Simultaneous SAR BT+WWAN
Head (BR&EDR)	0.425	1.160	<b>1.585</b>
Body (BR&EDR)	0.758	0.311	1.069
Head (BLE)	0.425	0.390	0.815
Body (BLE)	0.758	0.104	0.862

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**Sum of the SAR for GSM 850 &Wi-Fi**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	Wi-Fi DTS Band		
Head (voice)	Left Touch	0.397	0.238	0.635	No
	Left Tilt	0.300	0.155	0.455	No
	Right Touch	0.409	0.086	0.495	No
	Right Tilt	0.242	0.077	0.319	No
Head (voice)	Left Touch	0.397		0.397	No
	Left Tilt	0.300		0.300	No
	Right Touch	0.409		0.409	No
	Right Tilt	0.242		0.242	No
Body-worn (voice)	Rear	0.216	0.214	0.430	No
		0.216		0.216	No
	Front	0.231	0.160	0.391	No
		0.231		0.231	No
Body-worn (Data)	Rear	0.298		0.298	No
		0.298	0.214	0.512	No
	Front	0.303		0.303	No
		0.303	0.160	0.463	No
Body-worn (Hotspot)	Edge 2	0.170	0.275	0.445	No
	Edge 2	0.170		0.170	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	Wi-Fi DTS Band		
Head (voice)	Left Touch	0.056	0.238	0.294	No
	Left Tilt	0.049	0.155	0.204	No
	Right Touch	0.069	0.086	0.155	No
	Right Tilt	0.057	0.077	0.134	No
Head (voice)	Left Touch	0.056		0.056	No
	Left Tilt	0.049		0.049	No
	Right Touch	0.069		0.069	No
	Right Tilt	0.057		0.057	No
Body-worn (voice)	Rear	0.365	0.214	0.579	No
		0.365		0.365	No
	Front	0.185	0.160	0.345	No
		0.185		0.185	No
Body-worn (Data)	Rear	0.513		0.513	No
		0.513	0.214	0.727	No
	Front	0.281		0.281	No
		0.281	0.160	0.441	No
Body-worn (Hotspot)	Edge 2	0.172	0.275	0.447	No
	Edge 2	0.172		0.172	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for WCDMA Band II & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	Wi-Fi DTS Band		
Head	Left Touch	0.178	0.238	0.416	No
	Left Tilt	0.138	0.155	0.293	No
	Right Touch	0.210	0.086	0.296	No
	Right Tilt	0.177	0.077	0.254	No
Head	Left Touch	0.178		0.178	No
	Left Tilt	0.138		0.138	No
	Right Touch	0.210		0.210	No
	Right Tilt	0.177		0.177	No
Body-worn	Rear	0.553	0.214	0.767	No
	Front	0.332	0.160	0.492	No
	Edge 2	0.159	0.275	0.434	No
	Rear	0.553		0.553	No
	Front	0.332		0.332	No
	Edge 2	0.159		0.159	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for WCDMA Band IV & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	Wi-Fi DTS Band		
Head	Left Touch	0.132	0.238	0.370	No
	Left Tilt	0.049	0.155	0.204	No
	Right Touch	0.166	0.086	0.252	No
	Right Tilt	0.060	0.077	0.137	No
Head	Left Touch	0.132		0.132	No
	Left Tilt	0.049		0.049	No
	Right Touch	0.166		0.166	No
	Right Tilt	0.060		0.060	No
Body-worn	Rear	0.514	0.214	0.728	No
	Front	0.254	0.160	0.414	No
	Edge 2	0.157	0.275	0.432	No
	Rear	0.514		0.514	No
	Front	0.254		0.254	No
	Edge 2	0.157		0.157	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for WCDMA Band V & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	Wi-Fi DTS Band		
Head	Left Touch	0.312	0.238	0.550	No
	Left Tilt	0.205	0.155	0.360	No
	Right Touch	0.410	0.086	0.496	No
	Right Tilt	0.249	0.077	0.326	No
Head	Left Touch	0.312		0.312	No
	Left Tilt	0.205		0.205	No
	Right Touch	0.410		0.410	No
	Right Tilt	0.249		0.249	No
Body-worn	Rear	0.255	0.214	0.469	No
	Front	0.275	0.160	0.435	No
	Edge 2	0.121	0.275	0.396	No
	Rear	0.255		0.255	No
	Front	0.275		0.275	No
	Edge 2	0.121		0.121	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for LTE Band 2 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	Wi-Fi DTS Band		
Head	Left Touch	0.103	0.238	0.341	No
	Left Tilt	0.068	0.155	0.223	No
	Right Touch	0.189	0.086	0.275	No
	Right Tilt	0.083	0.077	0.160	No
Head	Left Touch	0.103		0.103	No
	Left Tilt	0.068		0.068	No
	Right Touch	0.189		0.189	No
	Right Tilt	0.083		0.083	No
Body-worn	Rear	0.390	0.214	0.604	No
	Front	0.258	0.160	0.418	No
	Edge 2	0.187	0.275	0.462	No
	Rear	0.390		0.390	No
	Front	0.258		0.258	No
	Edge 2	0.187		0.187	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for LTE Band 4 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	Wi-Fi DTS Band		
Head	Left Touch	0.050	0.238	0.288	No
	Left Tilt	0.043	0.155	0.198	No
	Right Touch	0.101	0.086	0.187	No
	Right Tilt	0.064	0.077	0.141	No
Head	Left Touch	0.050		0.050	No
	Left Tilt	0.043		0.043	No
	Right Touch	0.101		0.101	No
	Right Tilt	0.064		0.064	No
Body-worn	Rear	0.368	0.214	0.582	No
	Front	0.250	0.160	0.410	No
	Edge 2	0.091	0.275	0.366	No
	Rear	0.368		0.368	No
	Front	0.250		0.250	No
	Edge 2	0.091		0.091	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for LTE Band 5 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	Wi-Fi DTS Band		
Head	Left Touch	0.352	0.238	0.590	No
	Left Tilt	0.248	0.155	0.403	No
	Right Touch	0.401	0.086	0.487	No
	Right Tilt	0.200	0.077	0.277	No
Head	Left Touch	0.352		0.352	No
	Left Tilt	0.248		0.248	No
	Right Touch	0.401		0.401	No
	Right Tilt	0.200		0.200	No
Body-worn	Rear	0.283	0.214	0.497	No
	Front	0.300	0.160	0.460	No
	Edge 2	0.146	0.275	0.421	No
	Rear	0.283		0.283	No
	Front	0.300		0.300	No
	Edge 2	0.146		0.146	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for LTE Band 7 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	Wi-Fi DTS Band		
Head	Left Touch	0.272	0.238	0.510	No
	Left Tilt	0.187	0.155	0.342	No
	Right Touch	0.287	0.086	0.373	No
	Right Tilt	0.239	0.077	0.316	No
Head	Left Touch	0.272		0.272	No
	Left Tilt	0.187		0.187	No
	Right Touch	0.287		0.287	No
	Right Tilt	0.239		0.239	No
Body-worn	Rear	0.758	0.214	<b>0.972</b>	No
	Front	0.406	0.160	0.566	No
	Edge 2	0.336	0.275	0.611	No
	Rear	0.758		0.758	No
	Front	0.406		0.406	No
	Edge 2	0.336		0.336	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for LTE Band 12 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	Wi-Fi DTS Band		
Head	Left Touch	0.228	0.238	0.466	No
	Left Tilt	0.192	0.155	0.347	No
	Right Touch	0.386	0.086	0.472	No
	Right Tilt	0.348	0.077	0.425	No
Head	Left Touch	0.228		0.228	No
	Left Tilt	0.192		0.192	No
	Right Touch	0.386		0.386	No
	Right Tilt	0.348		0.348	No
Body-worn	Rear	0.119	0.214	0.333	No
	Front	0.097	0.160	0.257	No
	Edge 2	0.059	0.275	0.334	No
	Rear	0.119		0.119	No
	Front	0.097		0.097	No
	Edge 2	0.059		0.059	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 “

**Sum of the SAR for LTE Band 17 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	Wi-Fi DTS Band		
Head	Left Touch	0.178	0.238	0.416	No
	Left Tilt	0.157	0.155	0.312	No
	Right Touch	0.166	0.086	0.252	No
	Right Tilt	0.116	0.077	0.193	No
Head	Left Touch	0.178		0.178	No
	Left Tilt	0.157		0.157	No
	Right Touch	0.166		0.166	No
	Right Tilt	0.116		0.116	No
Body-worn	Rear	0.137	0.214	0.351	No
	Front	0.127	0.160	0.287	No
	Edge 2	0.127	0.275	0.402	No
	Rear	0.137		0.137	No
	Front	0.127		0.127	No
	Edge 2	0.127		0.127	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 “

**Sum of the SAR for LTE Band 25 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 25	Wi-Fi DTS Band		
Head	Left Touch	0.121	0.238	0.359	No
	Left Tilt	0.051	0.155	0.206	No
	Right Touch	0.164	0.086	0.250	No
	Right Tilt	0.026	0.077	0.103	No
Head	Left Touch	0.121		0.121	No
	Left Tilt	0.051		0.051	No
	Right Touch	0.164		0.164	No
	Right Tilt	0.026		0.026	No
Body-worn	Rear	0.469	0.214	0.683	No
	Front	0.279	0.160	0.439	No
	Edge 2	0.026	0.275	0.301	No
	Rear	0.469		0.469	No
	Front	0.279		0.279	No
	Edge 2	0.026		0.026	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for LTE Band 26A & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26	Wi-Fi DTS Band		
Head	Left Touch	0.425	0.238	0.663	No
	Left Tilt	0.352	0.155	0.507	No
	Right Touch	0.288	0.086	0.374	No
	Right Tilt	0.318	0.077	0.395	No
Head	Left Touch	0.425		0.425	No
	Left Tilt	0.352		0.352	No
	Right Touch	0.288		0.288	No
	Right Tilt	0.318		0.318	No
Body-worn	Rear	0.280	0.214	0.494	No
	Front	0.203	0.160	0.363	No
	Edge 2	0.198	0.275	0.473	No
	Rear	0.280		0.280	No
	Front	0.203		0.203	No
	Edge 2	0.198		0.198	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for LTE Band 26B & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26	Wi-Fi DTS Band		
Head	Left Touch	0.159	0.238	0.397	No
	Left Tilt	0.166	0.155	0.321	No
	Right Touch	0.141	0.086	0.227	No
	Right Tilt	0.174	0.077	0.251	No
Head	Left Touch	0.159		0.159	No
	Left Tilt	0.166		0.166	No
	Right Touch	0.141		0.141	No
	Right Tilt	0.174		0.174	No
Body-worn	Rear	0.293	0.214	0.507	No
	Front	0.208	0.160	0.368	No
	Edge 2	0.169	0.275	0.444	No
	Rear	0.293		0.293	No
	Front	0.208		0.208	No
	Edge 2	0.169		0.169	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for LTE Band 66 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	Wi-Fi DTS Band		
Head	Left Touch	0.226	0.238	0.464	No
	Left Tilt	0.049	0.155	0.204	No
	Right Touch	0.332	0.086	0.418	No
	Right Tilt	0.031	0.077	0.108	No
Head	Left Touch	0.226		0.226	No
	Left Tilt	0.049		0.049	No
	Right Touch	0.332		0.332	No
	Right Tilt	0.031		0.031	No
Body-worn	Rear	0.614	0.214	0.828	No
	Front	0.444	0.160	0.604	No
	Edge 2	0.150	0.275	0.425	No
	Rear	0.614		0.614	No
	Front	0.444		0.444	No
	Edge 2	0.150		0.150	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  
System Check Head 750 MHz

Date: Aug. 09, 2022

DUT: Dipole 750 MHz Type: SID 750

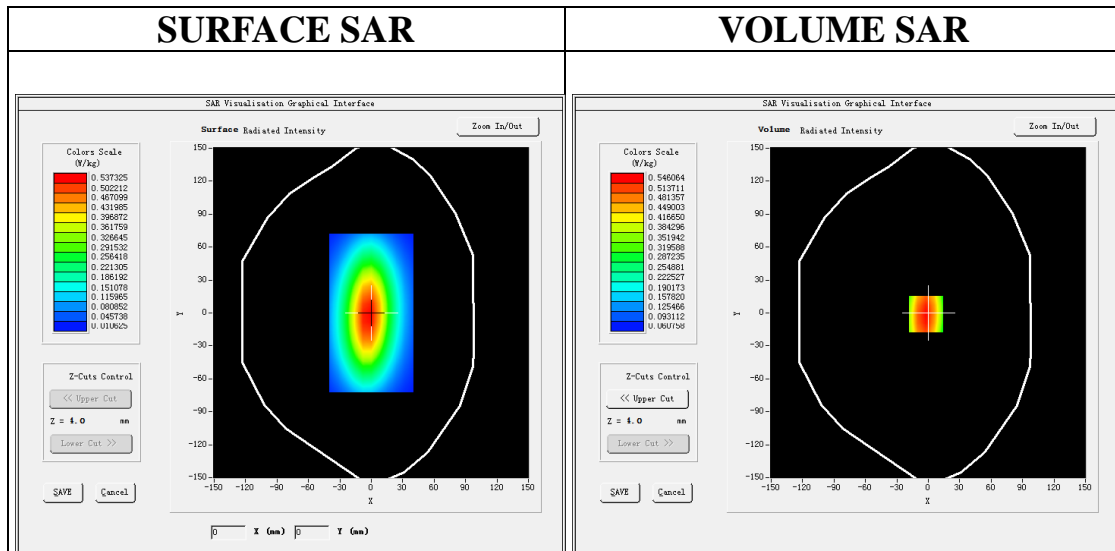
Communication System CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1; Conv.F=1.39  
Frequency: 750 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.89$  mho/m;  $\epsilon_r = 42.64$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C):21.6, Liquid temperature (°C): 21.2

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=-2.00, Y=-1.00

SAR Peak: 0.74 W/kg

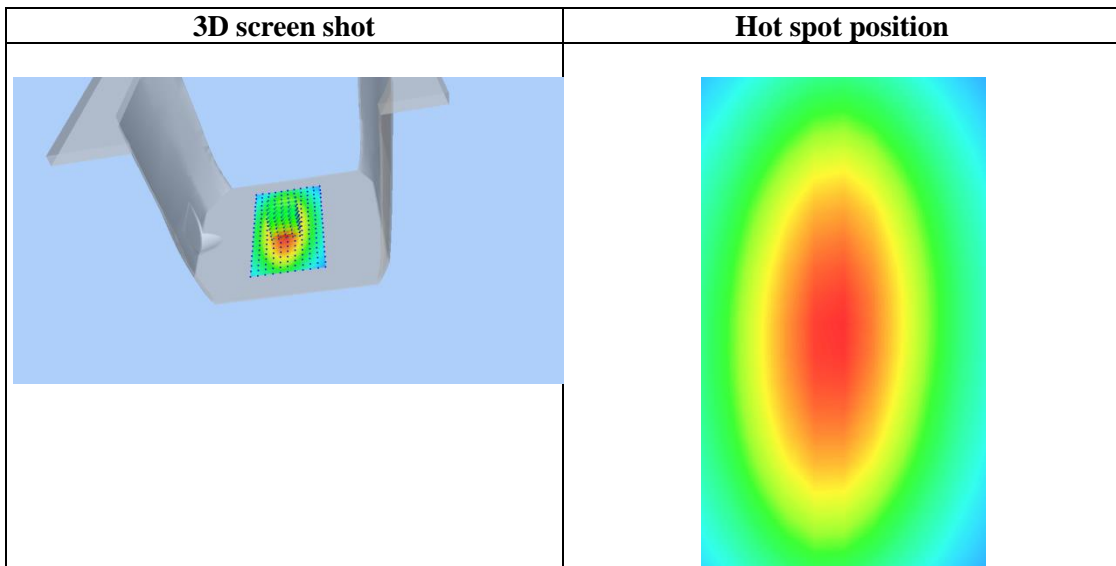
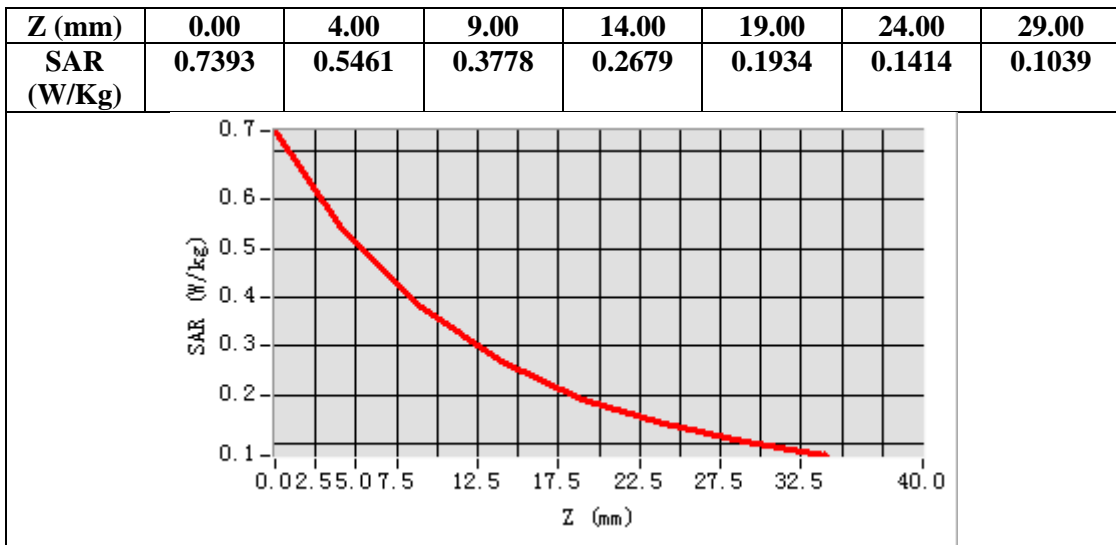
SAR 10g (W/Kg)	0.354889
SAR 1g (W/Kg)	0.549095

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**Test Laboratory: AGC Lab**  
**System Check Head 835 MHz**

**Date: Aug. 01, 2022**

**DUT: Dipole 835 MHz Type: SID 835**

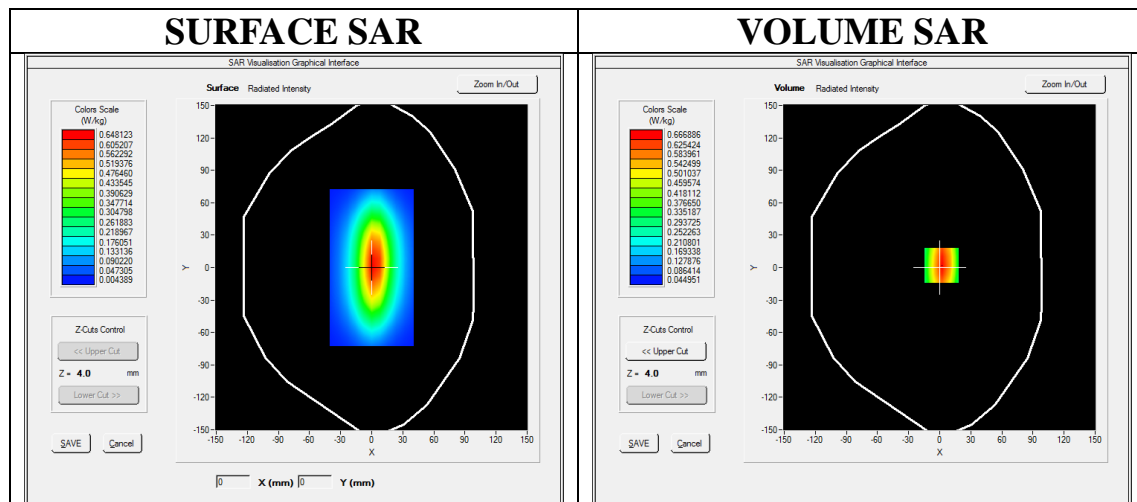
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.42  
Frequency: 835 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.87 \text{ mho/m}$ ;  $\epsilon_r = 43.39$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature ( $^{\circ}\text{C}$ ):21.2, Liquid temperature ( $^{\circ}\text{C}$ ): 21.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- 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=2.00, Y=2.00**

**SAR Peak: 0.99 W/kg**

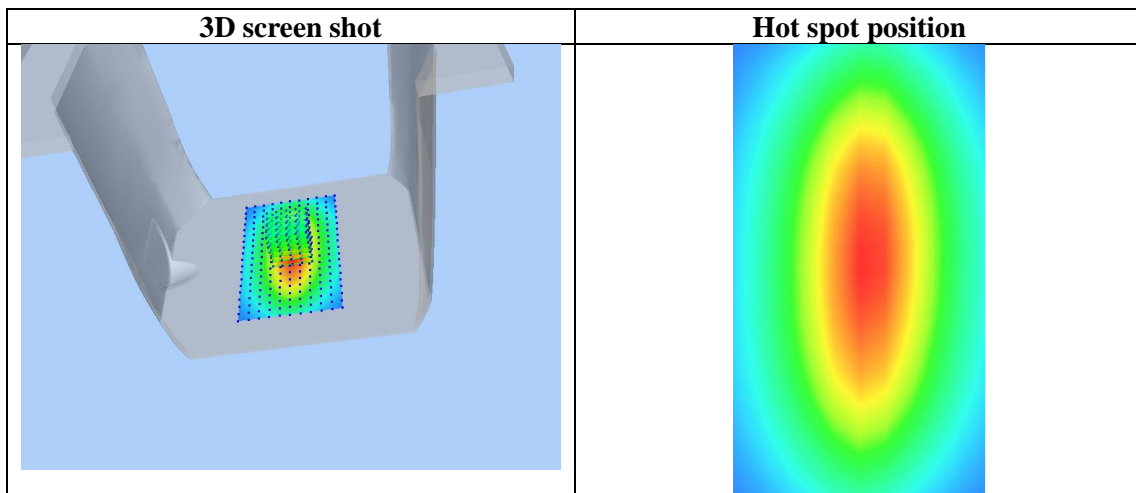
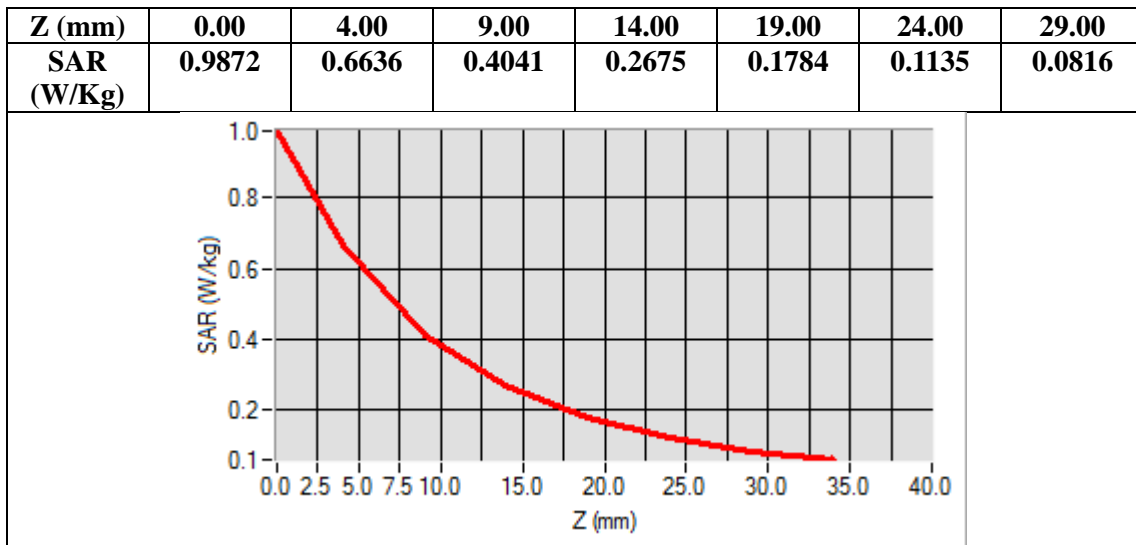
<b>SAR 10g (W/Kg)</b>	0.388423
<b>SAR 1g (W/Kg)</b>	0.636842

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**Test Laboratory: AGC Lab**  
**System Check Head 835 MHz**

**Date: Aug. 02, 2022**

**DUT: Dipole 835 MHz Type: SID 835**

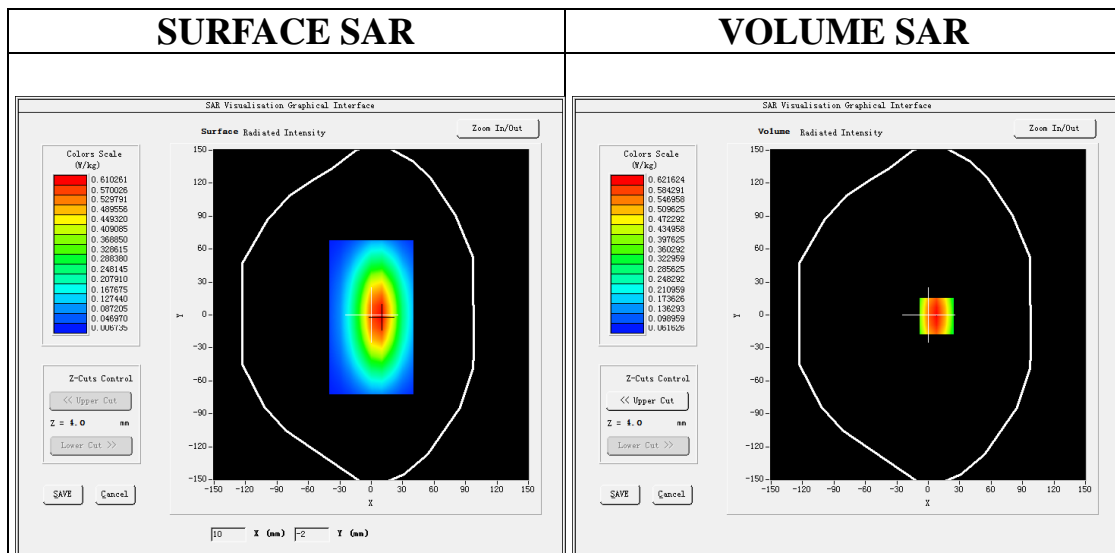
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.42  
Frequency: 835 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.88 \text{ mho/m}$ ;  $\epsilon_r = 41.92$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature ( $^{\circ}\text{C}$ ):21.7, Liquid temperature ( $^{\circ}\text{C}$ ): 21.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- 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=8.00, Y=-1.00**

**SAR Peak: 0.86 W/kg**

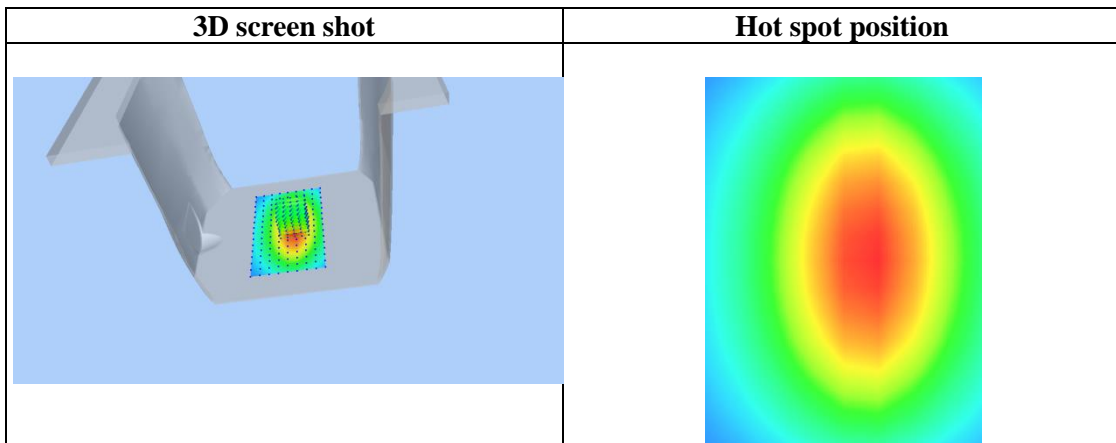
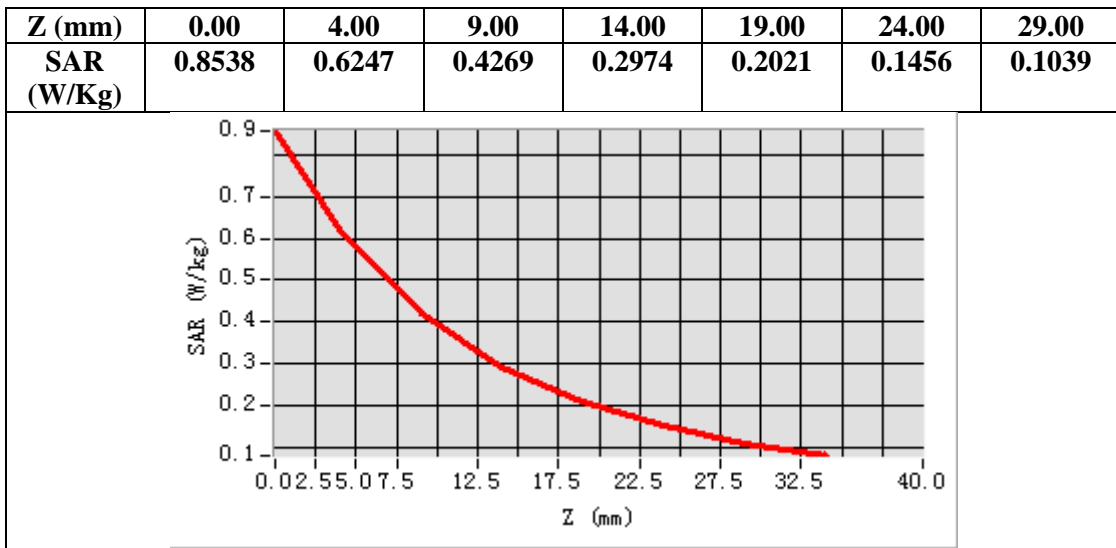
<b>SAR 10g (W/Kg)</b>	0.383954
<b>SAR 1g (W/Kg)</b>	0.593985

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**Test Laboratory: AGC Lab**  
**System Check Head 1750MHz**

**Date: Aug. 06, 2022**

**DUT: Dipole 1800 MHz; Type: SID 1800**

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=1.73  
Frequency: 1750 MHz; Medium parameters used:  $f = 1750\text{MHz}$ ;  $\sigma = 1.39 \text{ mho/m}$ ;  $\epsilon_r = 40.89$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature ( $^{\circ}\text{C}$ ): 21.3, Liquid temperature ( $^{\circ}\text{C}$ ): 21.0

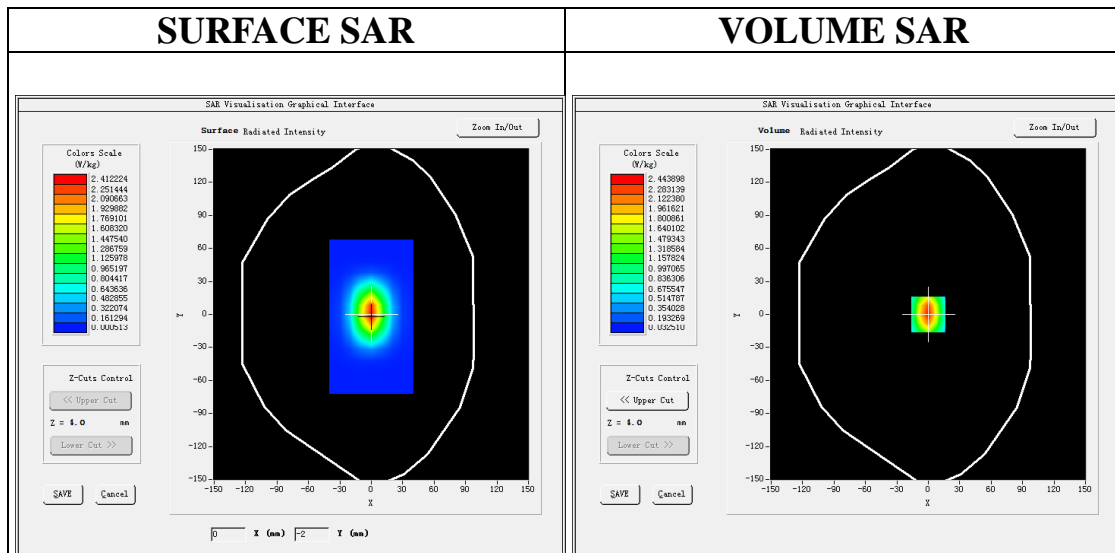
SATIMO Configuration:

Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 1750MHz Head/Area Scan:** Measurement grid: dx=8mm,dy=8mm

**Configuration/System Check 1750MHz Head/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm



**Maximum location: X=0.00, Y=0.00**

**SAR Peak: 3.98 W/kg**

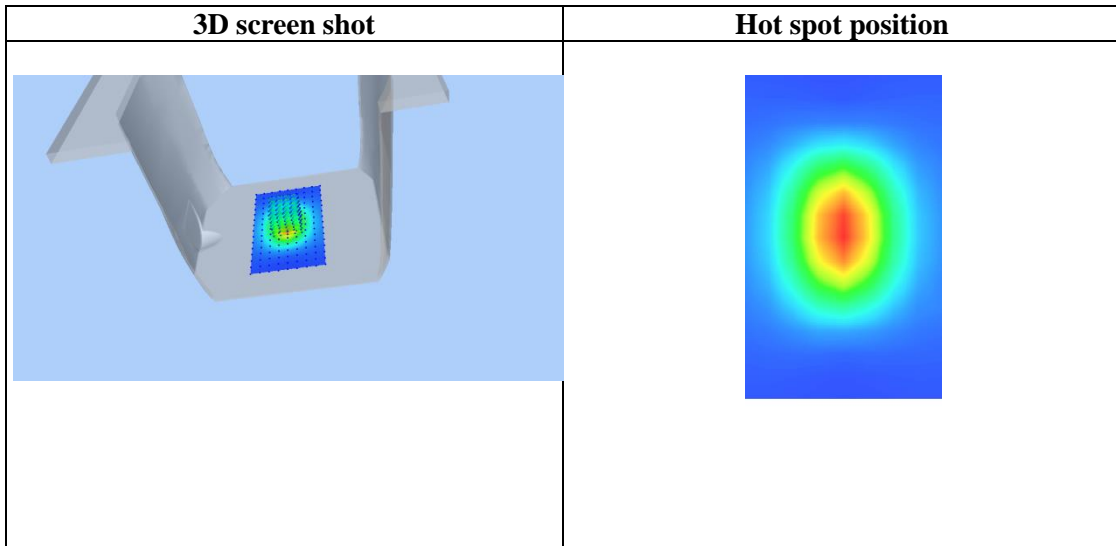
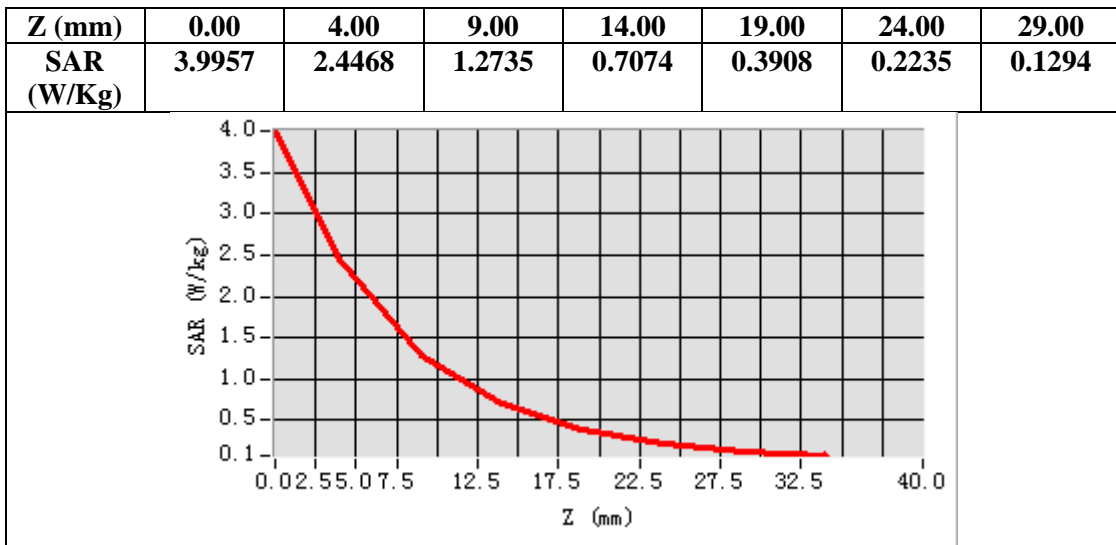
<b>SAR 10g (W/Kg)</b>	1.228352
<b>SAR 1g (W/Kg)</b>	2.329453

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**Test Laboratory: AGC Lab**  
**System Check Head 1900MHz**

**Date: Aug. 03, 2022**

**DUT: Dipole 1900 MHz; Type: SID 1900**

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=1.77  
Frequency: 1900 MHz; Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 40.18$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C):22.3, Liquid temperature (°C): 21.9

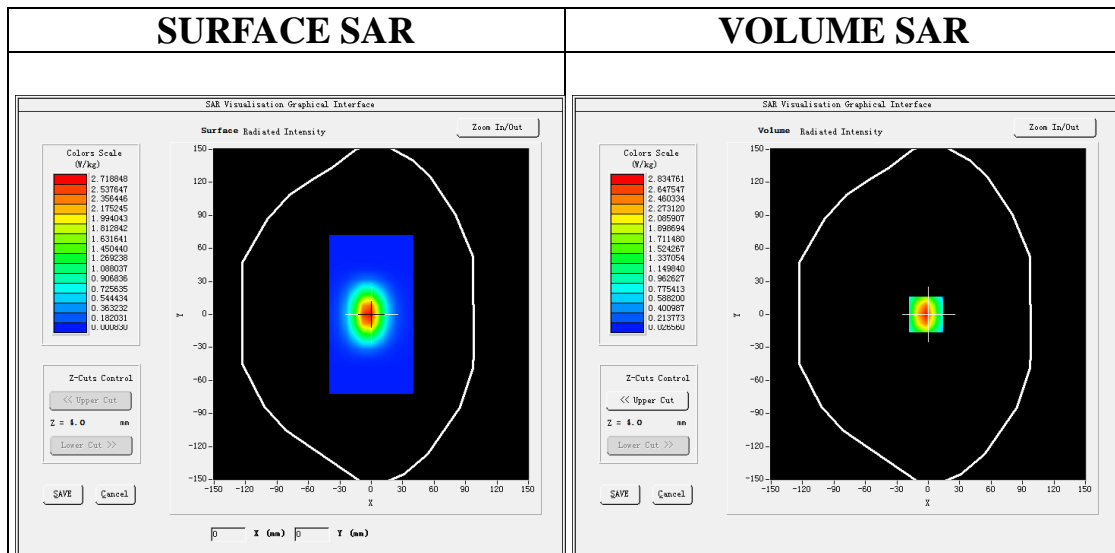
SATIMO Configuration:

Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

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

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



**Maximum location: X=-2.00, Y=0.00**

**SAR Peak: 4.70 W/kg**

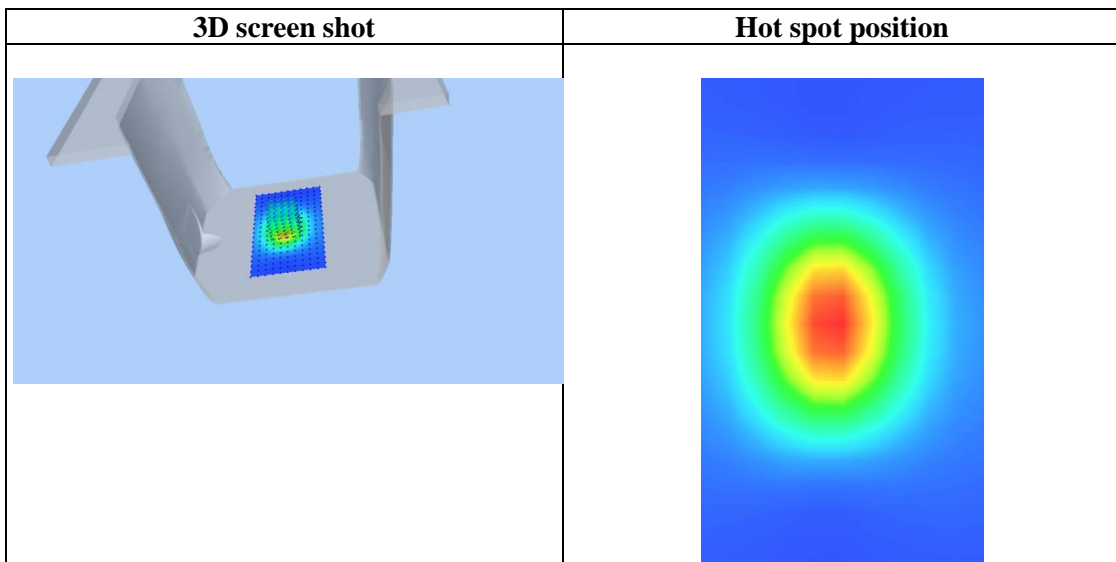
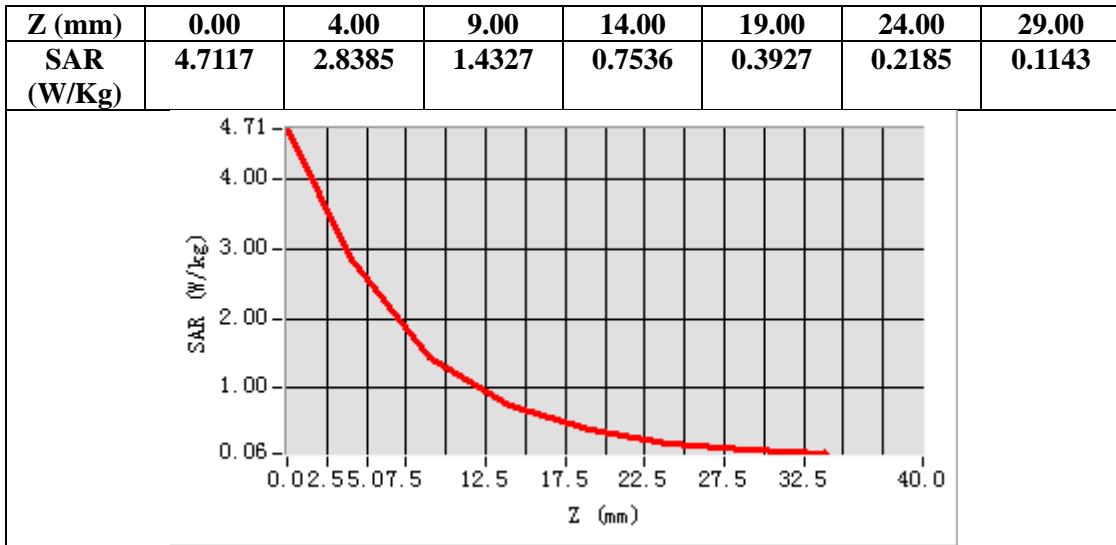
<b>SAR 10g (W/Kg)</b>	1.275282
<b>SAR 1g (W/Kg)</b>	2.652741

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**Test Laboratory: AGC Lab**  
**System Check Head 1900MHz**

**Date: Aug. 04, 2022**

**DUT: Dipole 1900 MHz; Type: SID 1900**

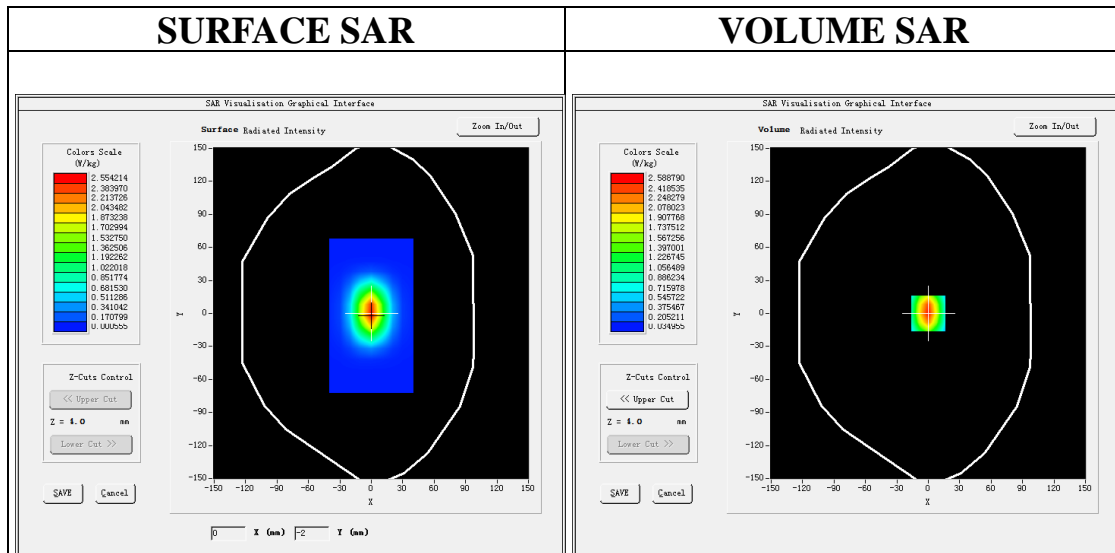
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=1.77  
Frequency: 1900 MHz; Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 39.69$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C):21.9, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

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

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



**Maximum location: X=0.00, Y=0.00**

**SAR Peak: 4.21 W/kg**

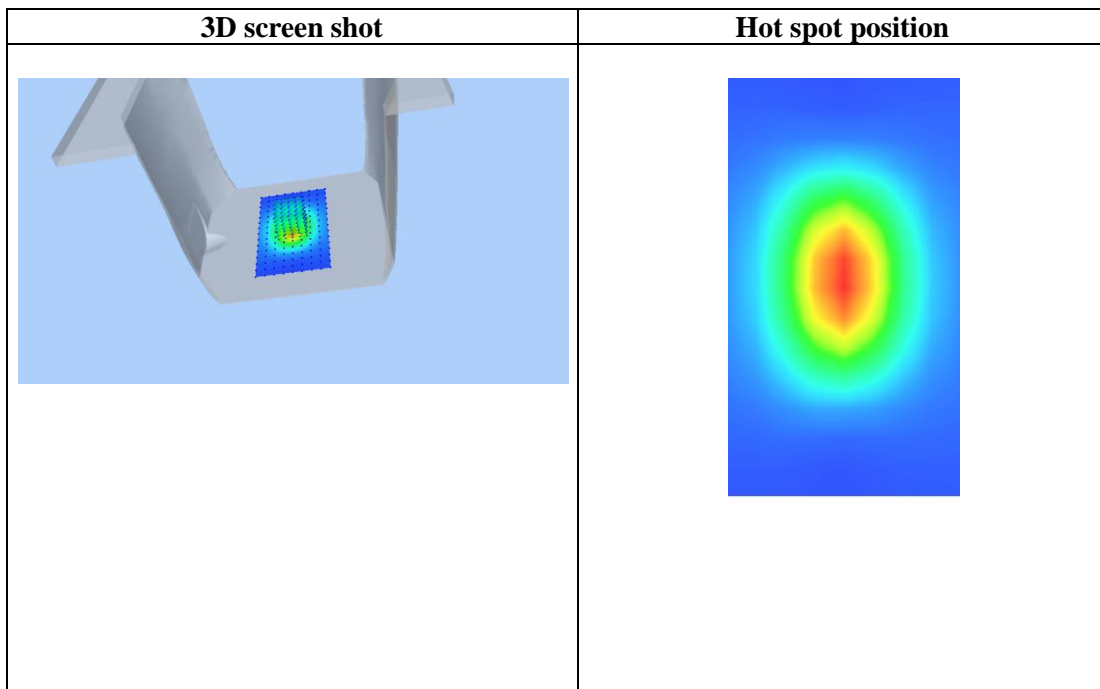
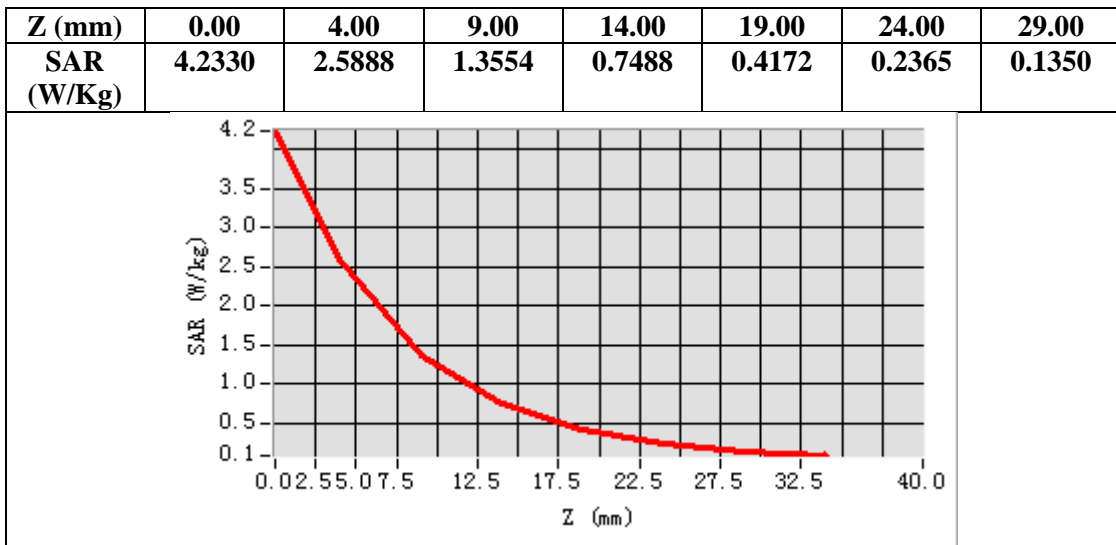
<b>SAR 10g (W/Kg)</b>	1.218342
<b>SAR 1g (W/Kg)</b>	2.437248

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**Test Laboratory: AGC Lab**  
**System Check Head 2450 MHz**

**Date: Aug. 08, 2022**

**DUT: Dipole 2450 MHz Type: SID 2450**

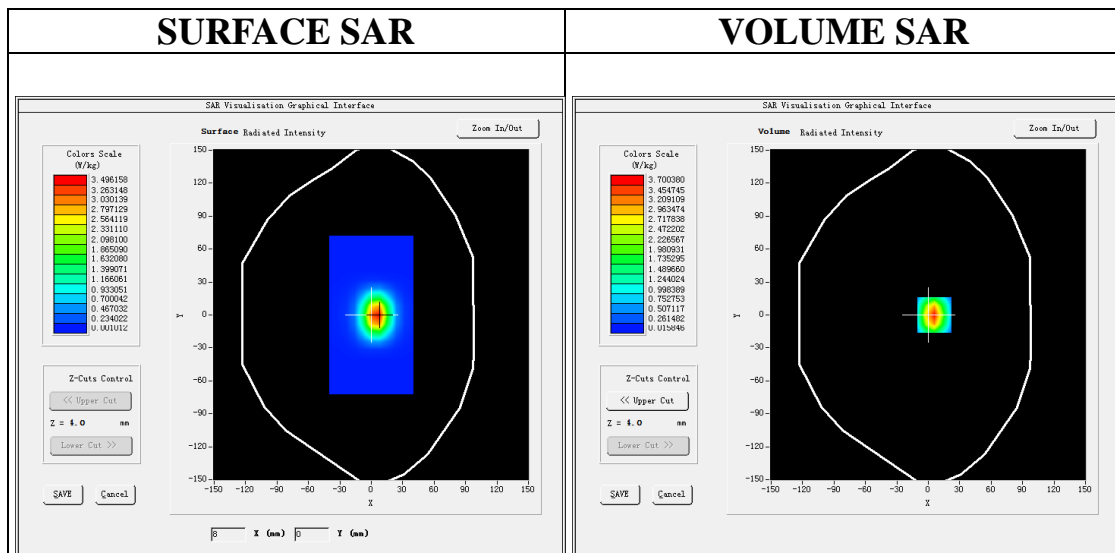
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=1.99  
Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.84$  mho/m;  $\epsilon_r = 39.90$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C):22.3, Liquid temperature (°C): 21.6

**SATIMO Configuration**

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

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

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

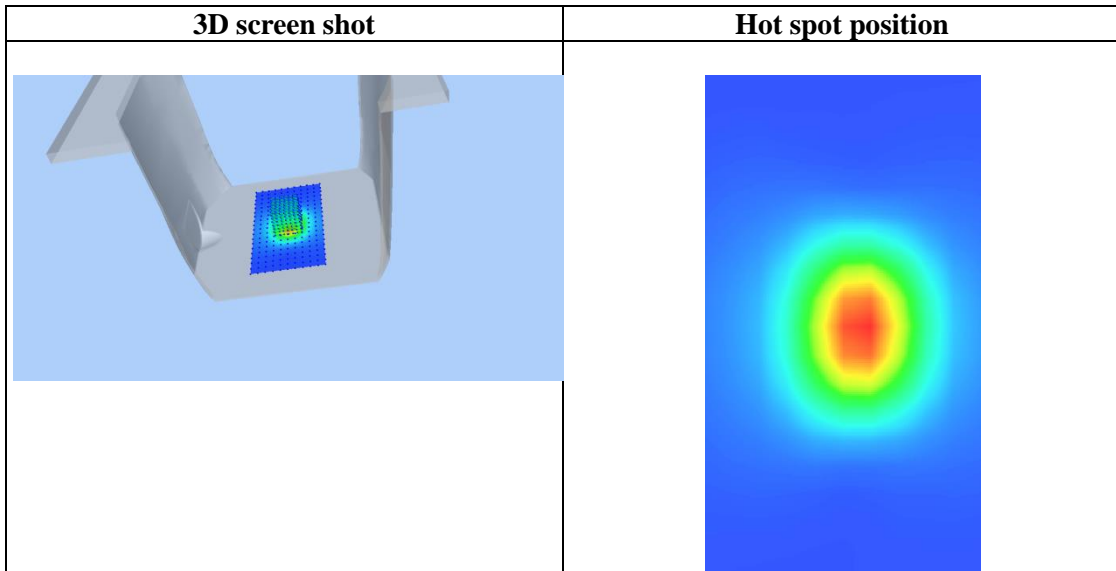
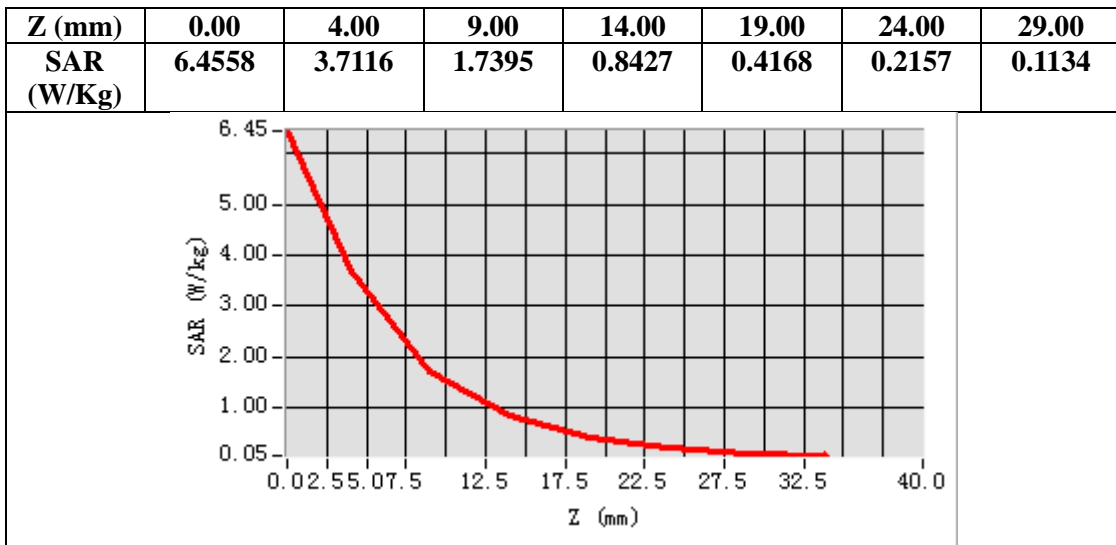


**Maximum location: X=6.00, Y=0.00**

**SAR Peak: 6.40 W/kg**

<b>SAR 10g (W/Kg)</b>	<b>1.512695</b>
<b>SAR 1g (W/Kg)</b>	<b>3.437963</b>

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**Test Laboratory: AGC Lab**  
**System Check Head 2600MHz**

**Date: Aug. 07, 2022**

**DUT: Dipole 2600 MHz; Type: SID 2600**

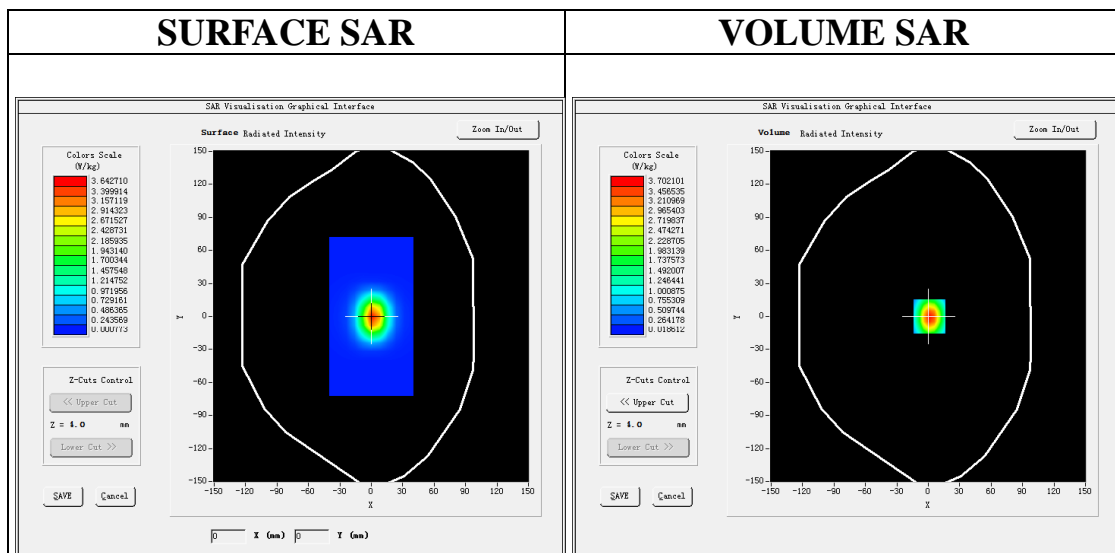
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=1.82  
Frequency:2600 MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 38.73$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C): 22.1, Liquid temperature (°C): 21.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 2600 Head/Area Scan:** Measurement grid: dx=8mm,dy=8mm

**Configuration/System Check 2600 Head/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm



**Maximum location: X=1.00, Y=0.00**

**SAR Peak: 6.40 W/kg**

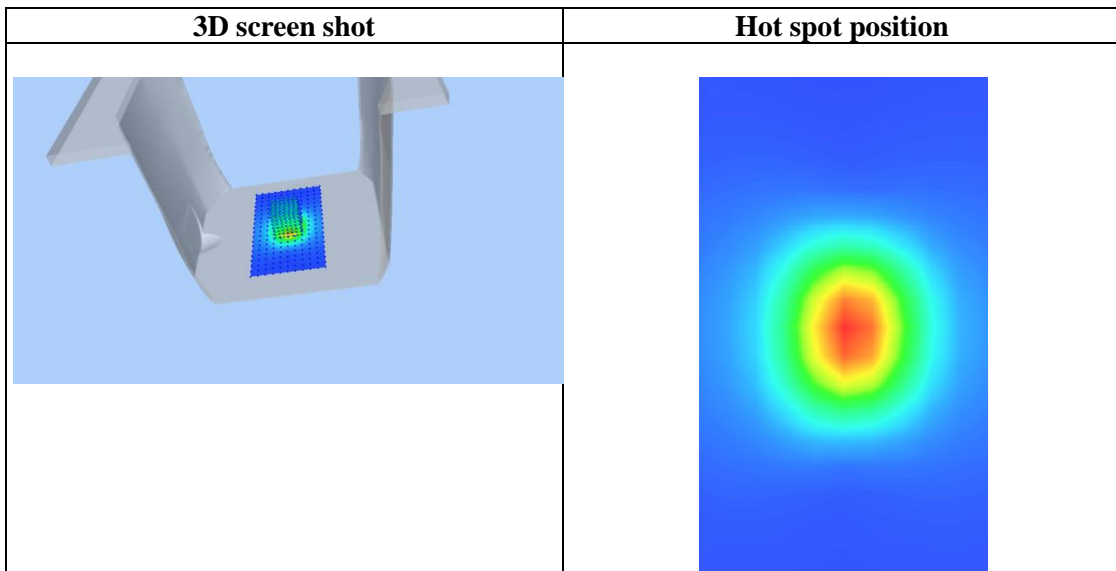
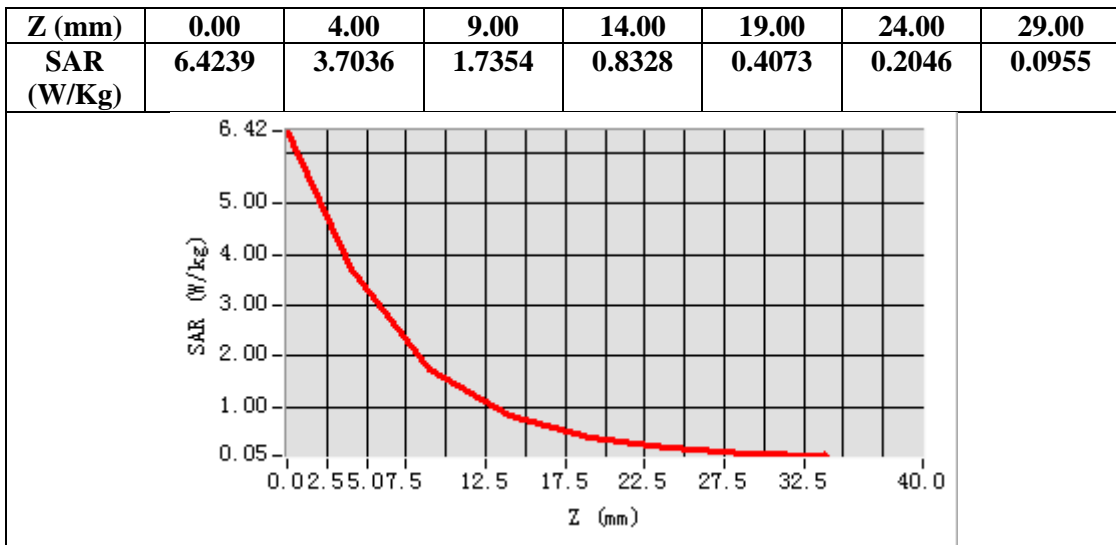
<b>SAR 10g (W/Kg)</b>	1.532817
<b>SAR 1g (W/Kg)</b>	3.424384

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**Test Laboratory: AGC Lab**  
**System Check Head 750 MHz**

**Date: Aug. 09, 2022**

**DUT: Dipole 750 MHz Type: SID 750**

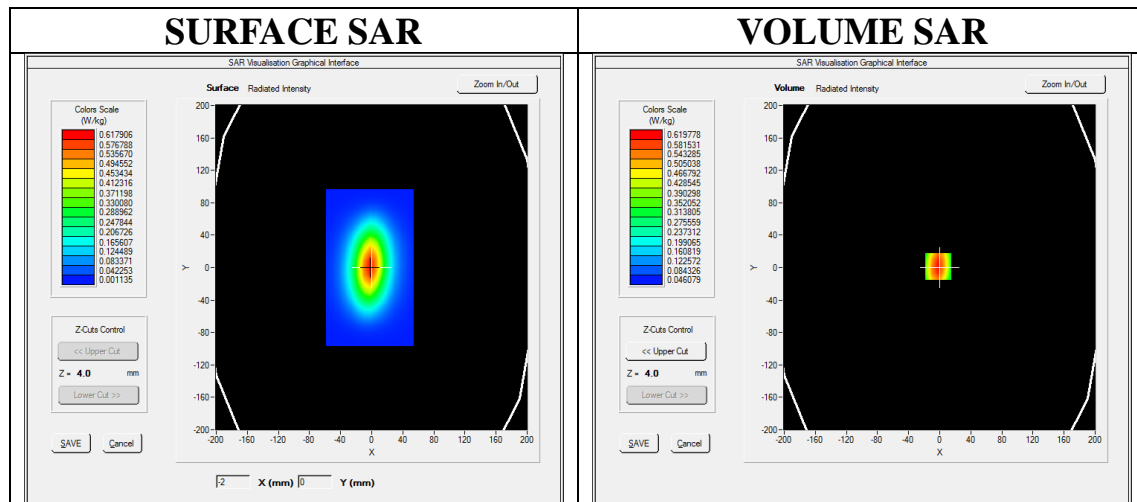
Communication System CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1; Conv.F=1.39  
Frequency: 750 MHz; Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.89 \text{ mho/m}$ ;  $\epsilon_r = 42.64$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature ( $^{\circ}\text{C}$ ):21.6, Liquid temperature ( $^{\circ}\text{C}$ ): 21.2

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 750MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 750MHz Head/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm



**Maximum location: X=-2.00, Y=1.00**

**SAR Peak: 0.88 W/kg**

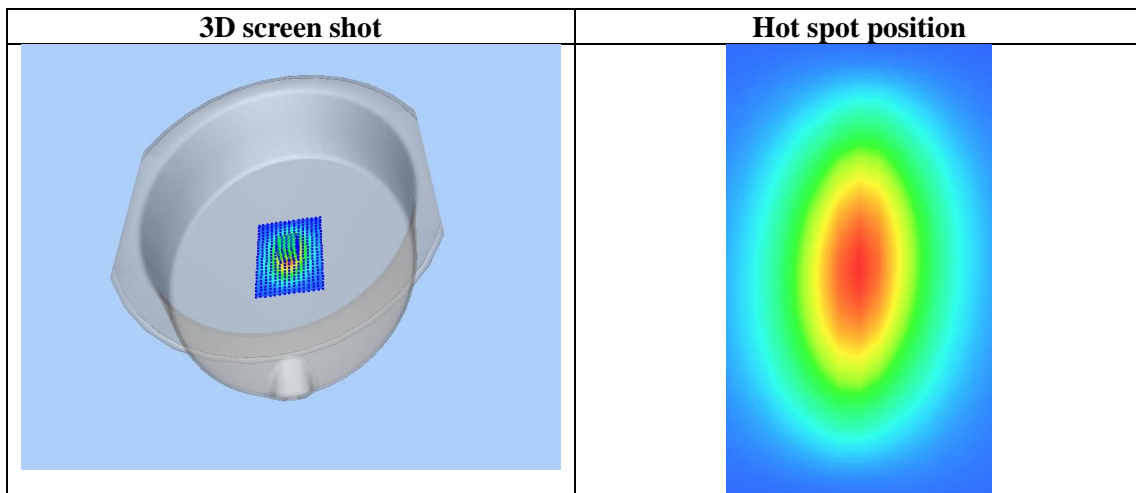
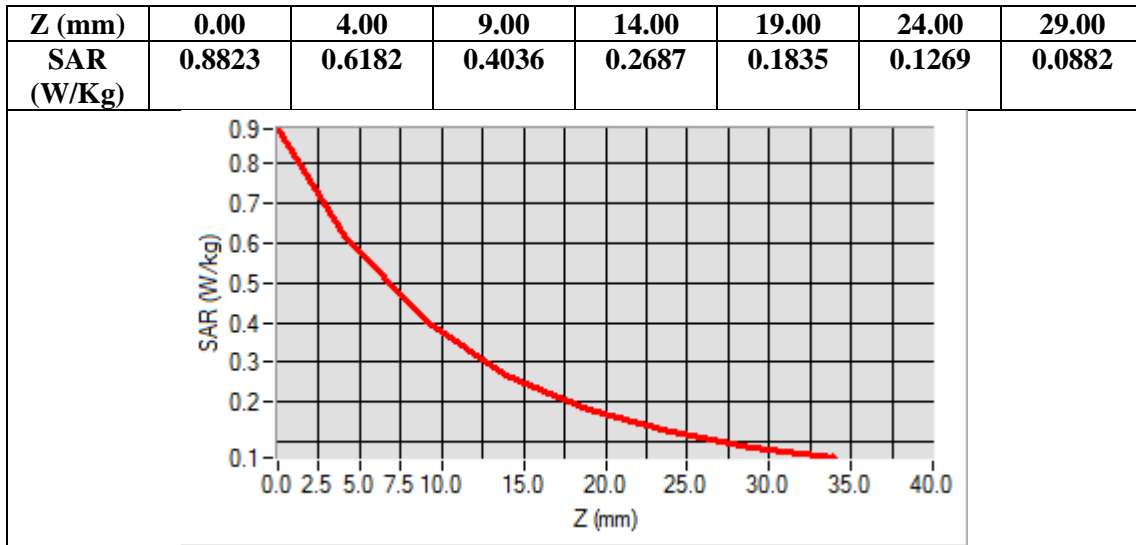
<b>SAR 10g (W/Kg)</b>	0.370581
<b>SAR 1g (W/Kg)</b>	0.561052

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**Test Laboratory: AGC Lab**  
**System Check Head 835 MHz**

**Date: Aug. 01, 2022**

**DUT: Dipole 835 MHz Type: SID 835**

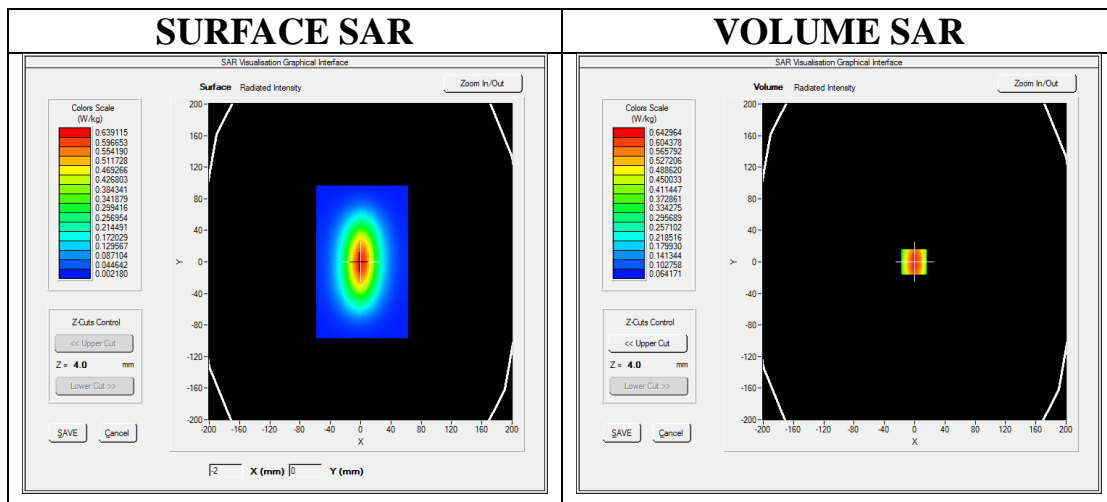
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.42  
Frequency: 835 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.87 \text{ mho/m}$ ;  $\epsilon_r = 43.39$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature ( $^{\circ}\text{C}$ ):21.2, Liquid temperature ( $^{\circ}\text{C}$ ): 21.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

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

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



**Maximum location: X=-1.00, Y=0.00**

**SAR Peak: 0.88 W/kg**

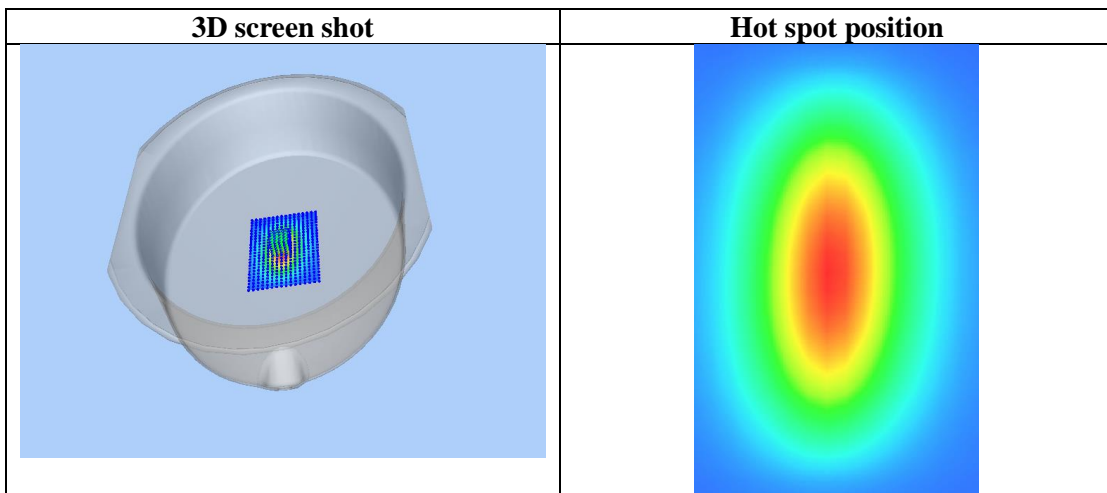
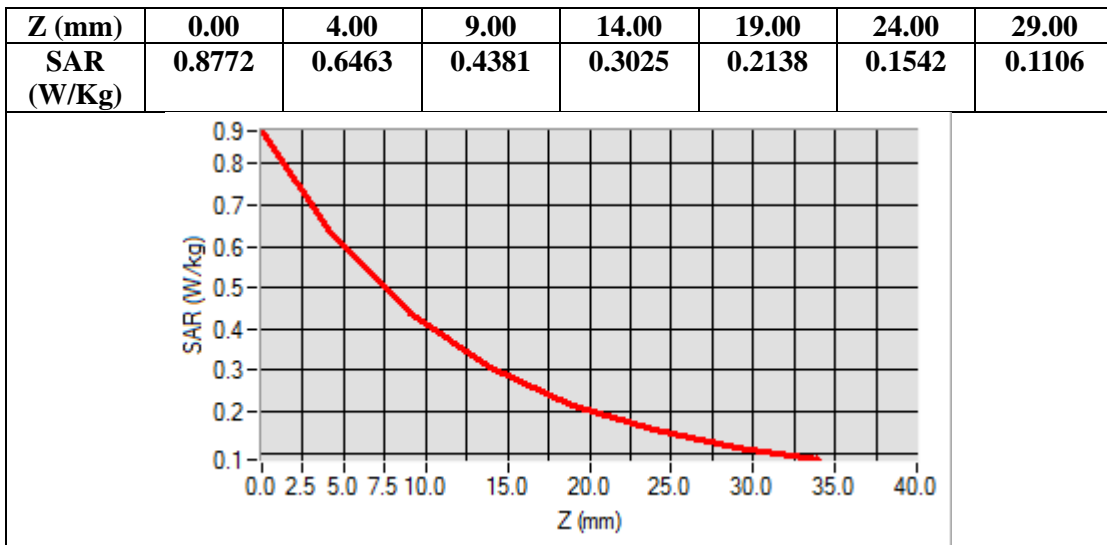
<b>SAR 10g (W/Kg)</b>	0.407143
<b>SAR 1g (W/Kg)</b>	0.619245

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**Test Laboratory: AGC Lab**  
**System Check Head 835 MHz**

**Date: Aug. 02, 2022**

**DUT: Dipole 835 MHz Type: SID 835**

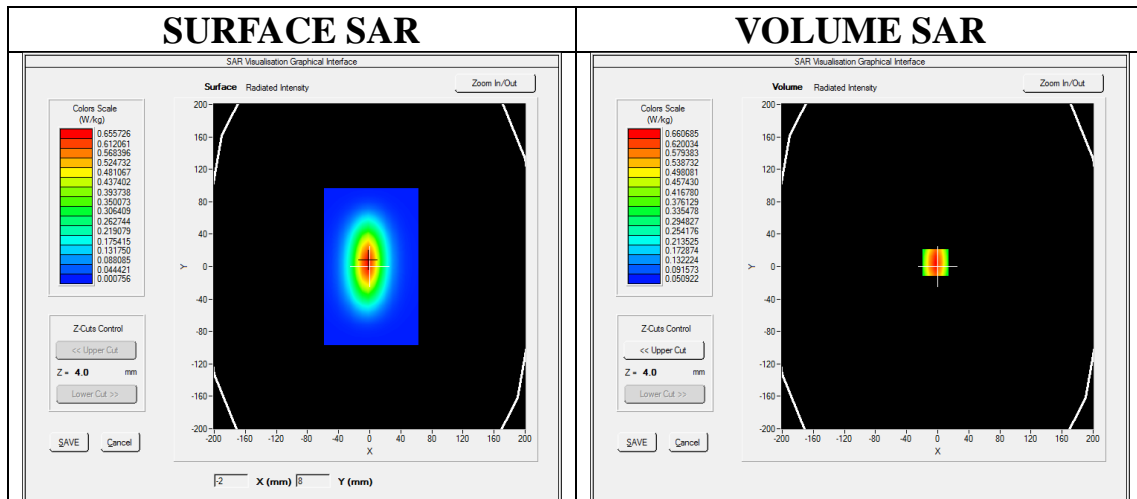
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.42  
Frequency: 835 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.88 \text{ mho/m}$ ;  $\epsilon_r = 41.92$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature ( $^{\circ}\text{C}$ ):21.7, Liquid temperature ( $^{\circ}\text{C}$ ): 21.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 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=-3.00, Y=5.00**

**SAR Peak: 0.93 W/kg**

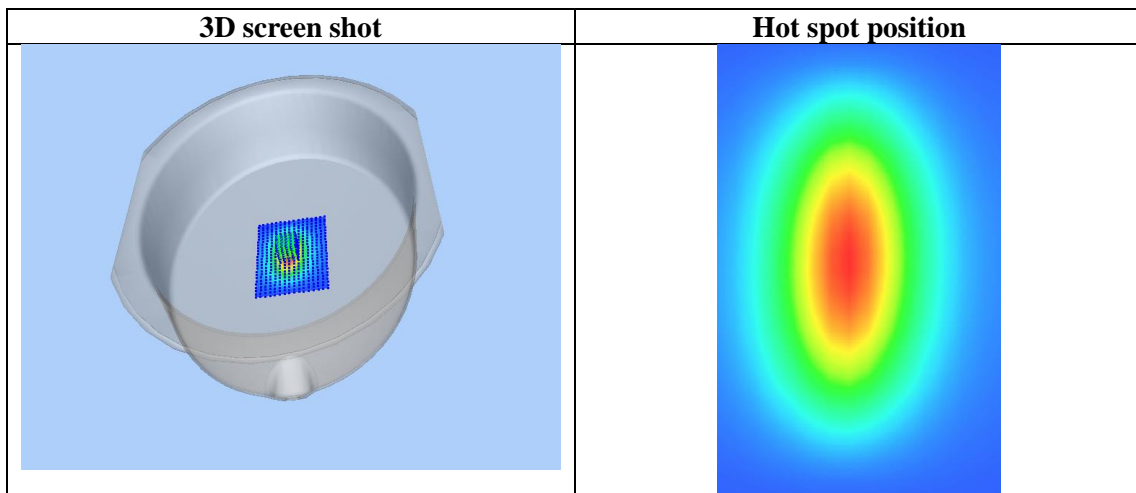
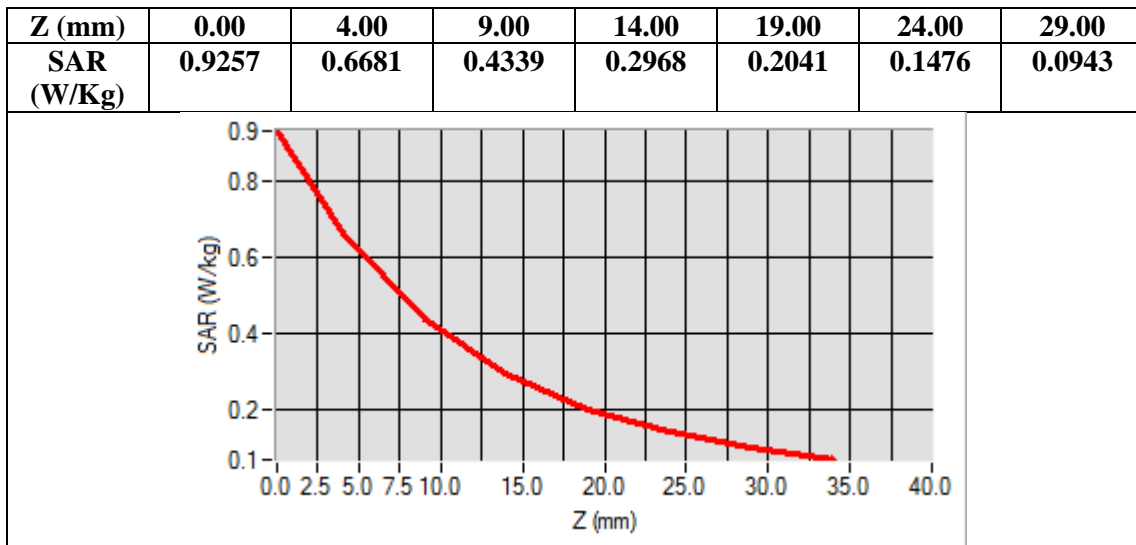
<b>SAR 10g (W/Kg)</b>	0.395974
<b>SAR 1g (W/Kg)</b>	0.634952

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**Test Laboratory: AGC Lab**  
**System Check Head 1750MHz**

**Date: Aug. 06, 2022**

**DUT: Dipole 1800 MHz; Type: SID 1800**

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=1.73  
Frequency: 1750 MHz; Medium parameters used:  $f = 1750\text{MHz}$ ;  $\sigma = 1.39 \text{ mho/m}$ ;  $\epsilon r = 40.89$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature ( $^{\circ}\text{C}$ ): 21.3, Liquid temperature ( $^{\circ}\text{C}$ ): 21.0

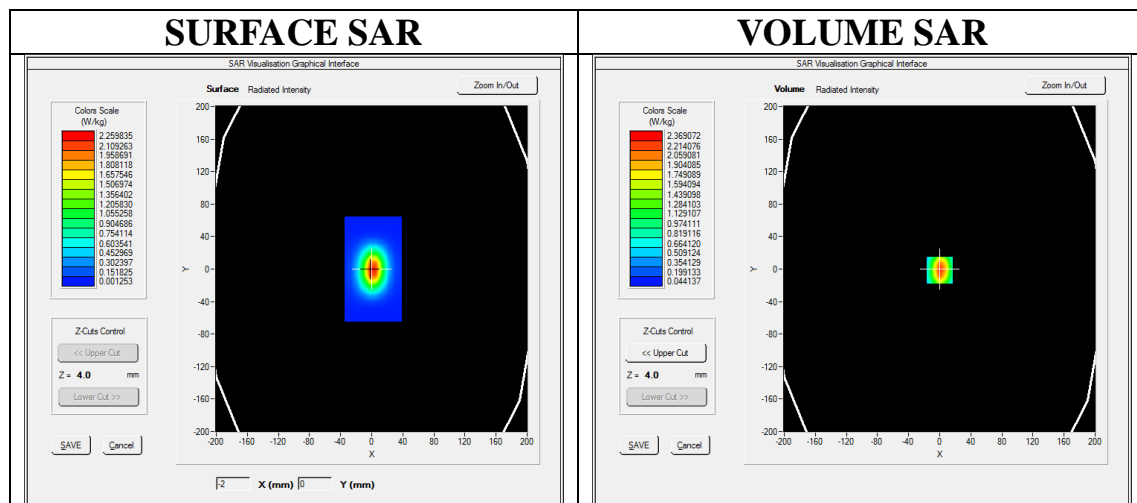
SATIMO Configuration:

Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 1750MHz Head/Area Scan:** Measurement grid: dx=8mm,dy=8mm

**Configuration/System Check 1750MHz Head/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm



**Maximum location: X=0.00, Y=-1.00**

**SAR Peak: 3.72 W/kg**

<b>SAR 10g (W/Kg)</b>	1.217152
<b>SAR 1g (W/Kg)</b>	2.238245

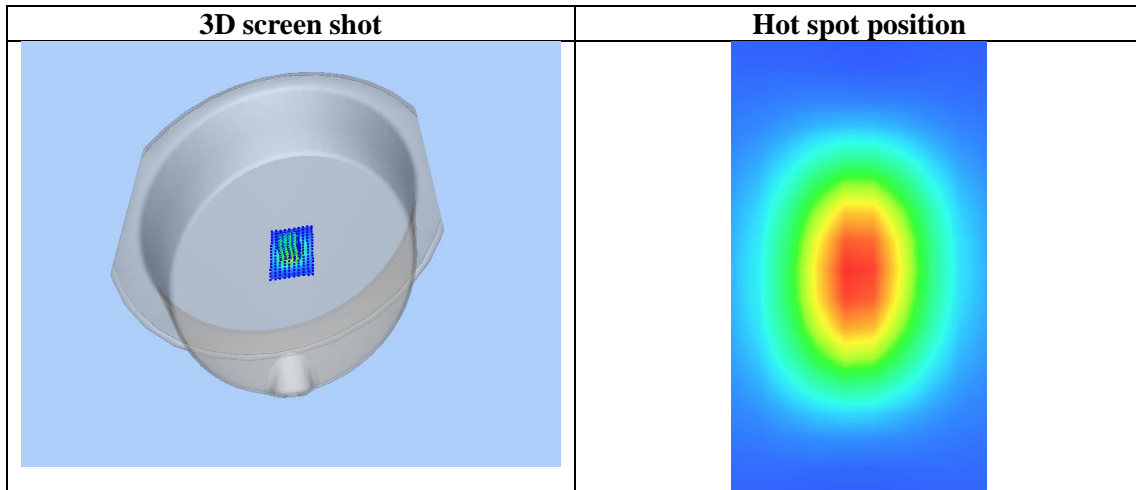
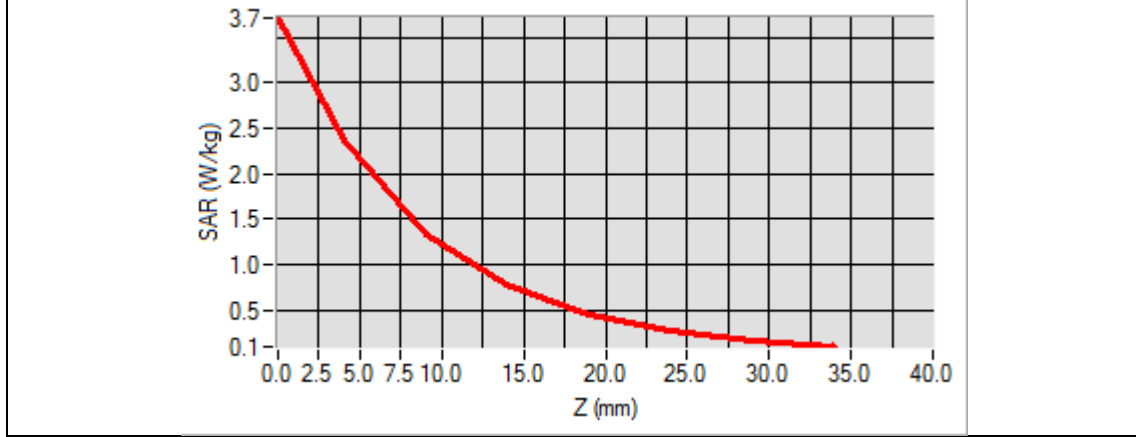
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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.7137	2.3682	1.3245	0.7747	0.4530	0.2774	0.1695



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**Test Laboratory: AGC Lab**  
**System Check Head 1900MHz**

**Date: Aug. 03, 2022**

**DUT: Dipole 1900 MHz; Type: SID 1900**

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=1.77  
Frequency: 1900 MHz; Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon r = 40.18$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C):22.3, Liquid temperature (°C): 21.9

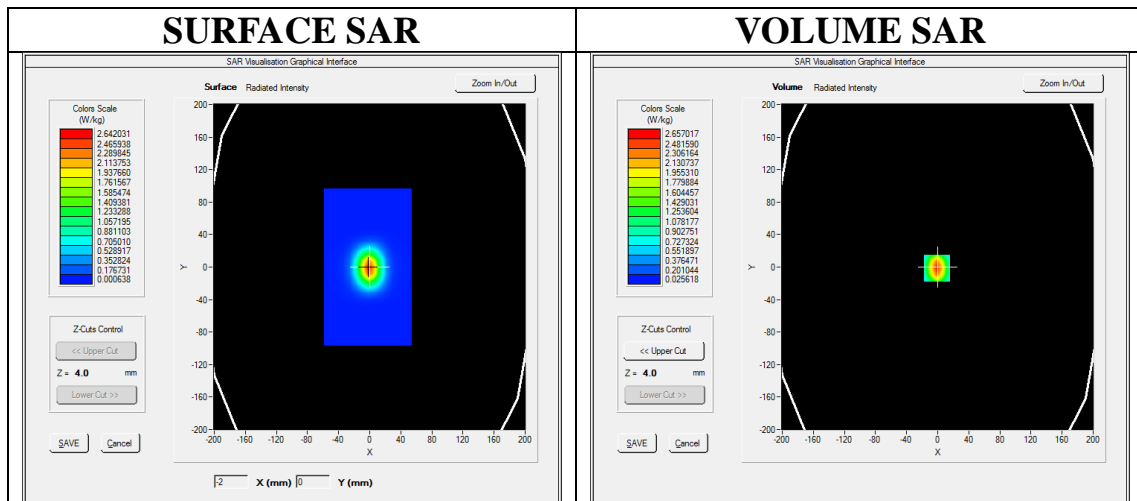
SATIMO Configuration:

Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

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

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



**Maximum location: X=-1.00, Y=-1.00**

**SAR Peak: 4.35 W/kg**

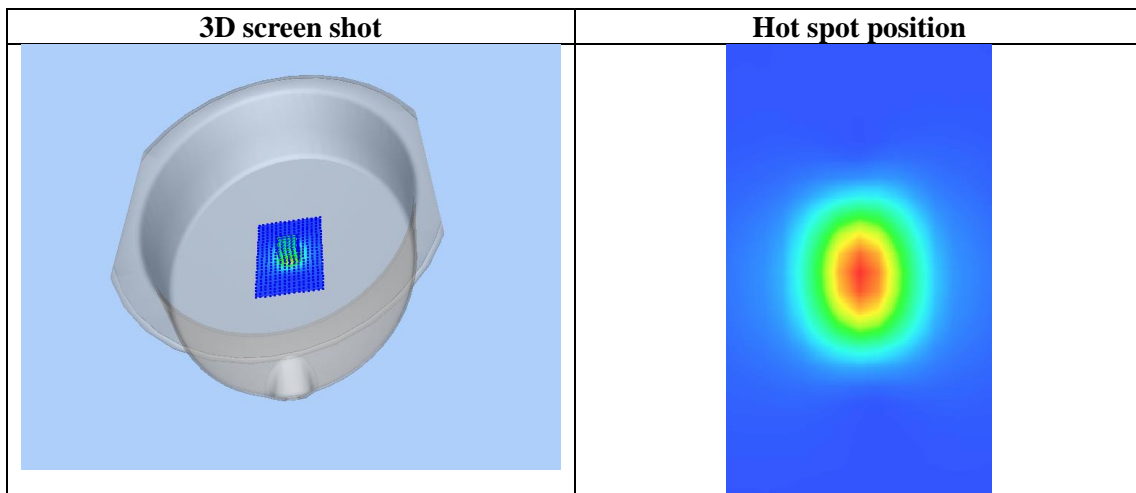
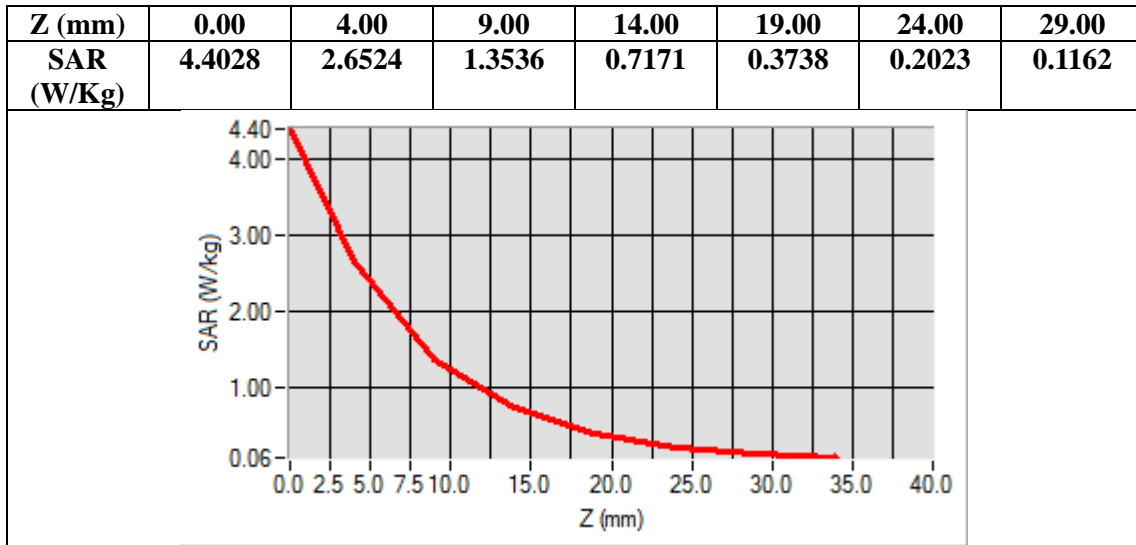
<b>SAR 10g (W/Kg)</b>	1.220733
<b>SAR 1g (W/Kg)</b>	2.491240

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**Test Laboratory: AGC Lab**  
**System Check Head 1900MHz**

**Date: Aug. 04, 2022**

**DUT: Dipole 1900 MHz; Type: SID 1900**

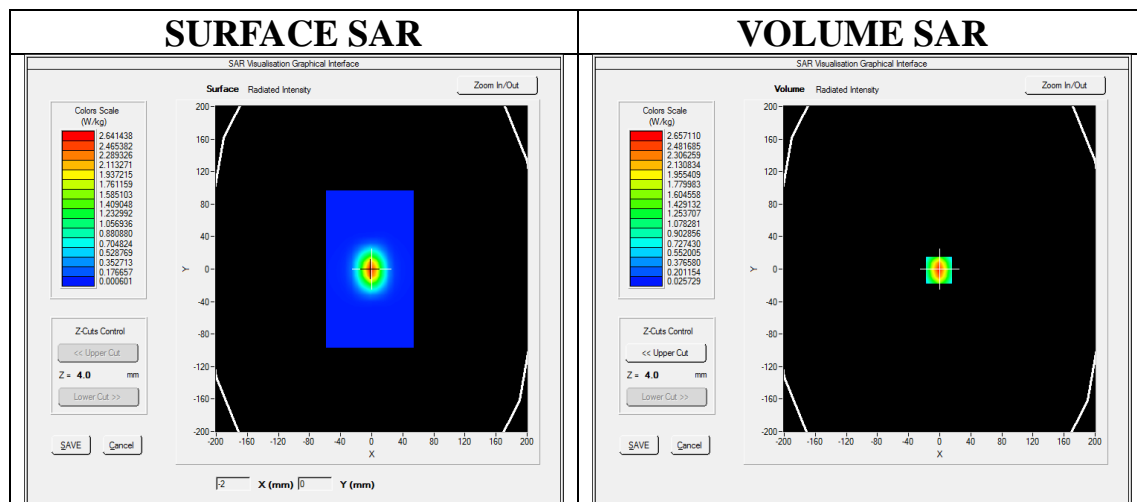
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=1.77  
Frequency: 1900 MHz; Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 39.69$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C):21.9, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

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

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



**Maximum location: X=-1.00, Y=-1.00**  
**SAR Peak: 4.35 W/kg**

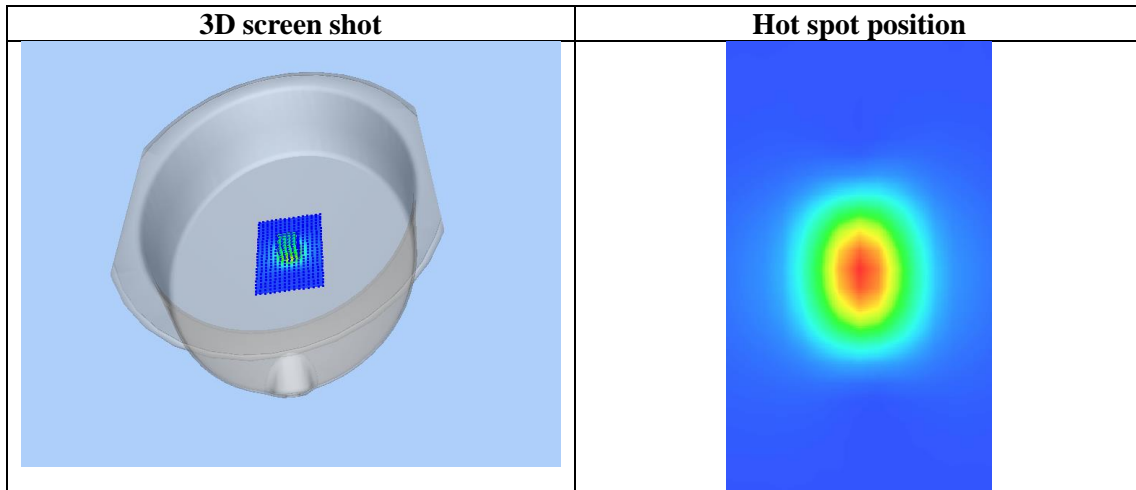
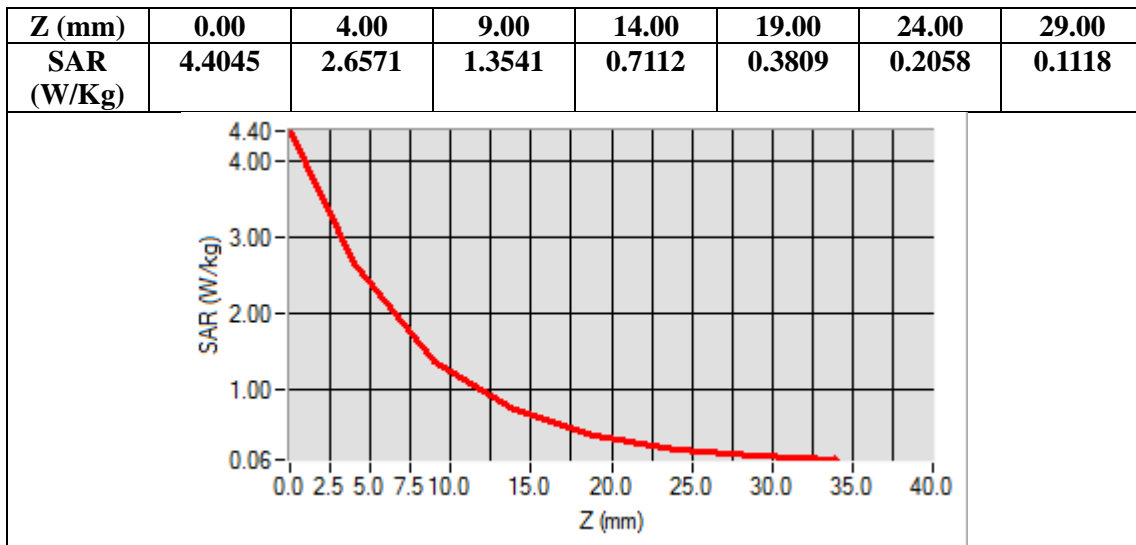
<b>SAR 10g (W/Kg)</b>	1.228243
<b>SAR 1g (W/Kg)</b>	2.496872

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**Test Laboratory: AGC Lab**  
**System Check Head 2450 MHz**

**Date: Aug. 08, 2022**

**DUT: Dipole 2450 MHz Type: SID 2450**

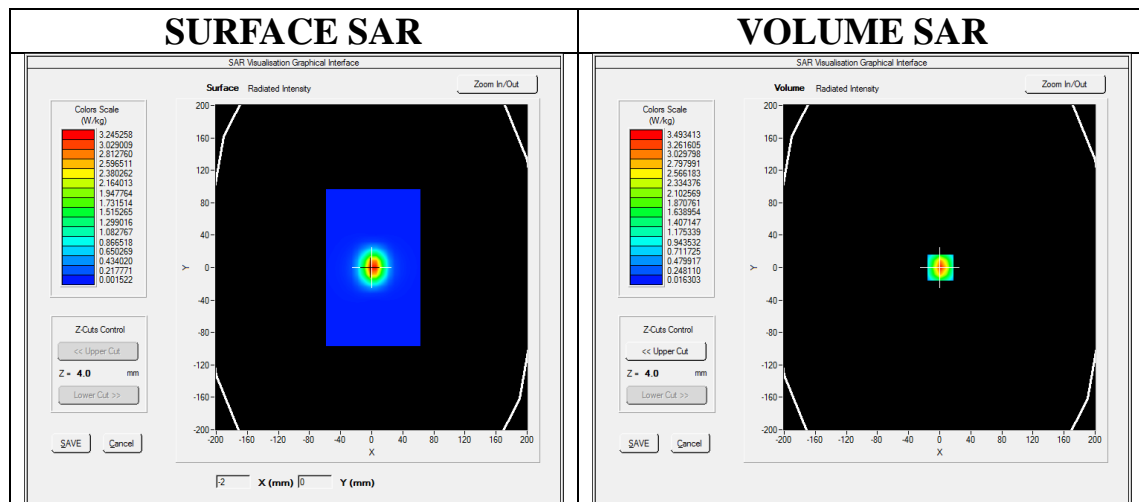
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=1.99  
Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.84$  mho/m;  $\epsilon_r = 39.90$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C):22.3, Liquid temperature (°C): 21.6

**SATIMO Configuration**

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

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

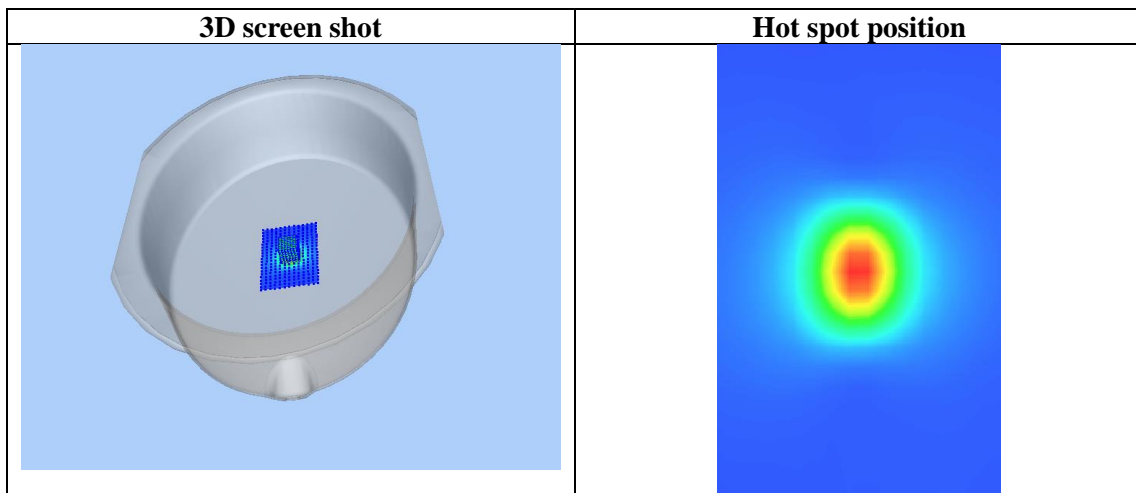
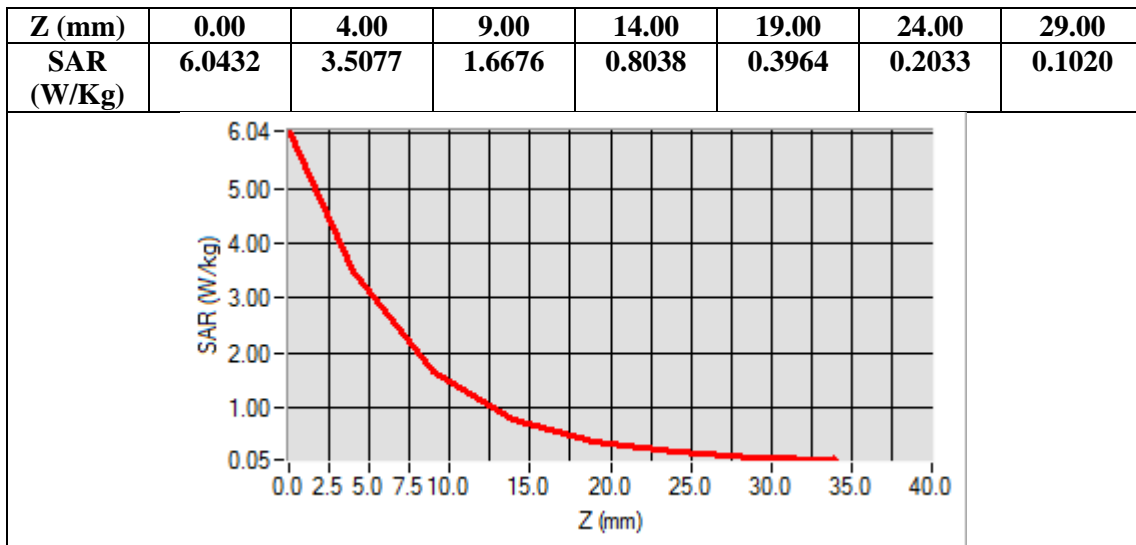
**Configuration/System Check 2450MHz Head/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm



**Maximum location: X=1.00, Y=0.00**  
**SAR Peak: 6.00 W/kg**

<b>SAR 10g (W/Kg)</b>	1.464826
<b>SAR 1g (W/Kg)</b>	3.251013

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**Test Laboratory: AGC Lab**  
**System Check Head 2600MHz**

**Date: Aug. 07, 2022**

**DUT: Dipole 2600 MHz; Type: SID 2600**

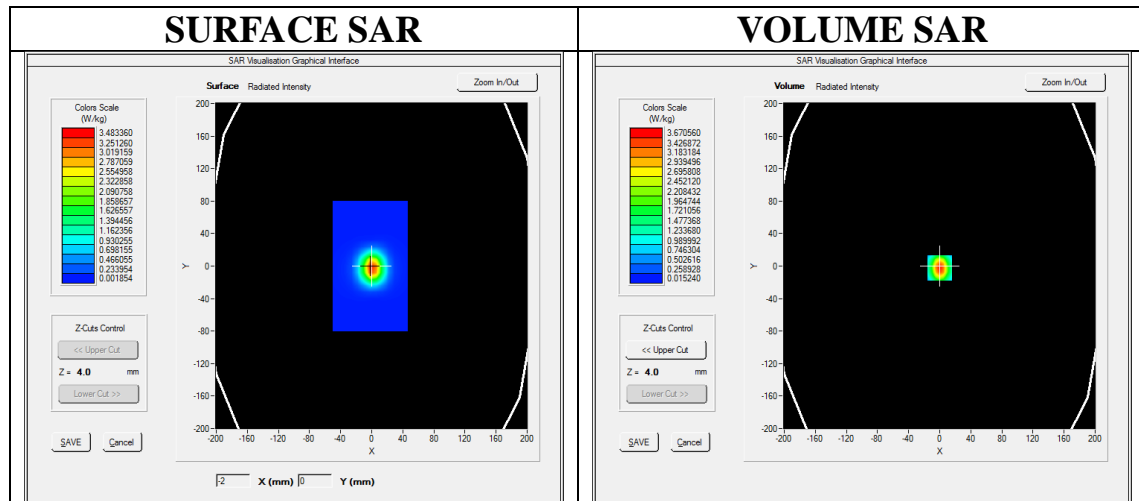
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=1.82  
Frequency:2600 MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 38.73$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C): 22.1, Liquid temperature (°C): 21.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 2600 Head/Area Scan:** Measurement grid: dx=8mm,dy=8mm

**Configuration/System Check 2600 Head/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm



**Maximum location: X=0.00, Y=-2.00**  
**SAR Peak: 6.40 W/kg**

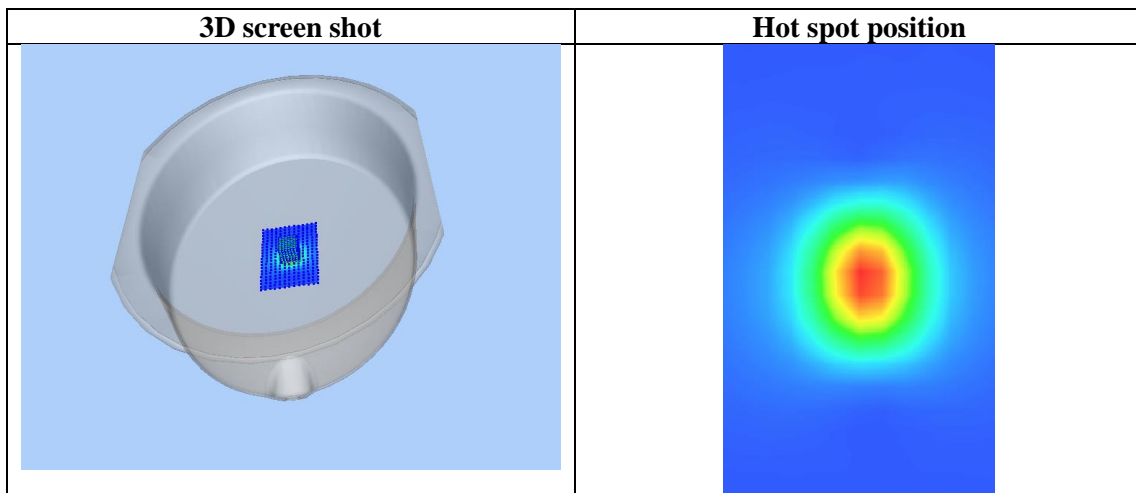
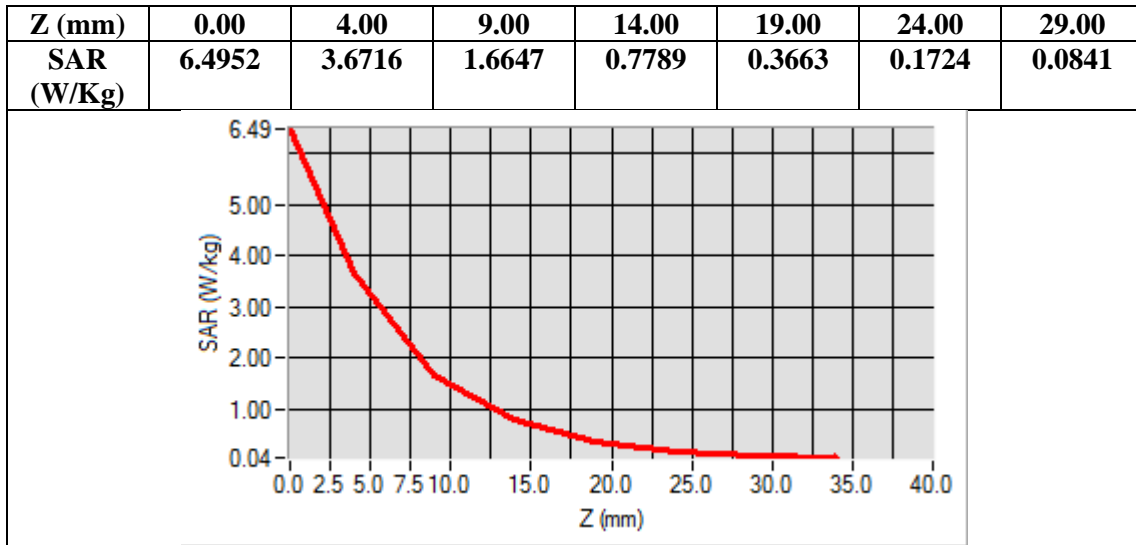
<b>SAR 10g (W/Kg)</b>	<b>1.512873</b>
<b>SAR 1g (W/Kg)</b>	<b>3.373984</b>

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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## APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab  
GSM 850 Mid- Touch-Right <SIM 1>  
DUT: Smart Phone; Type: X97Pro

Date: Aug. 01, 2022

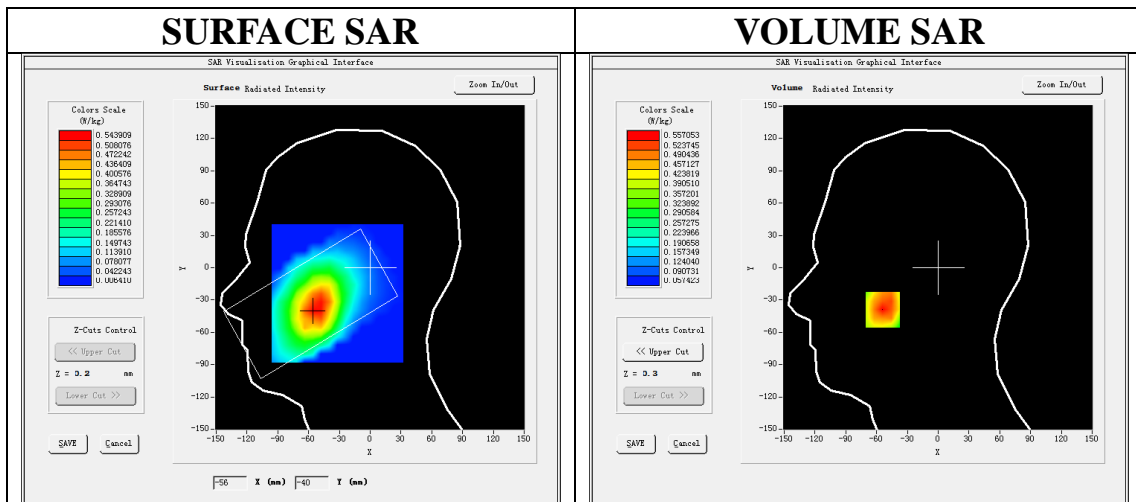
Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.42;  
Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.88$  mho/m;  $\epsilon_r = 43.12$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.2, Liquid temperature (°C): 21.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

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

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



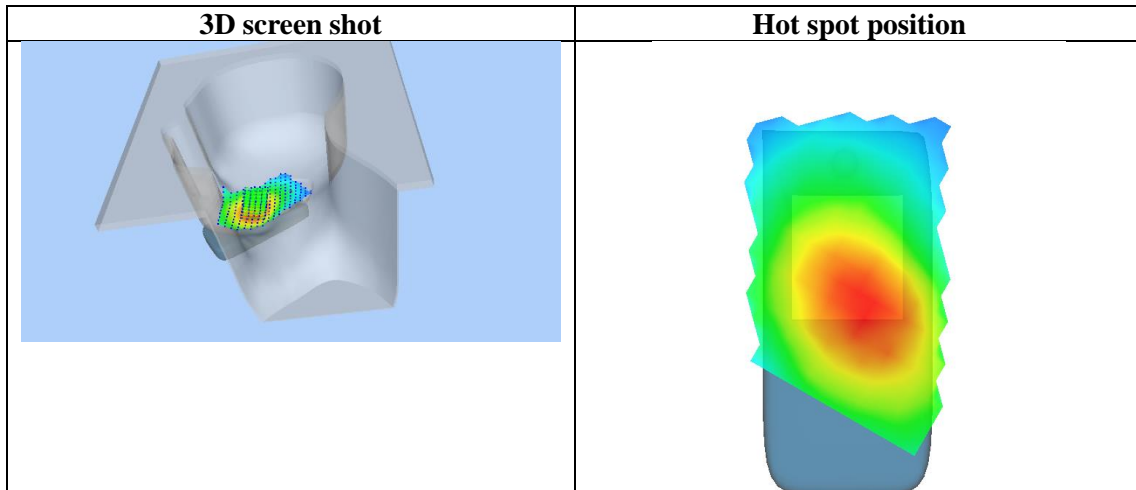
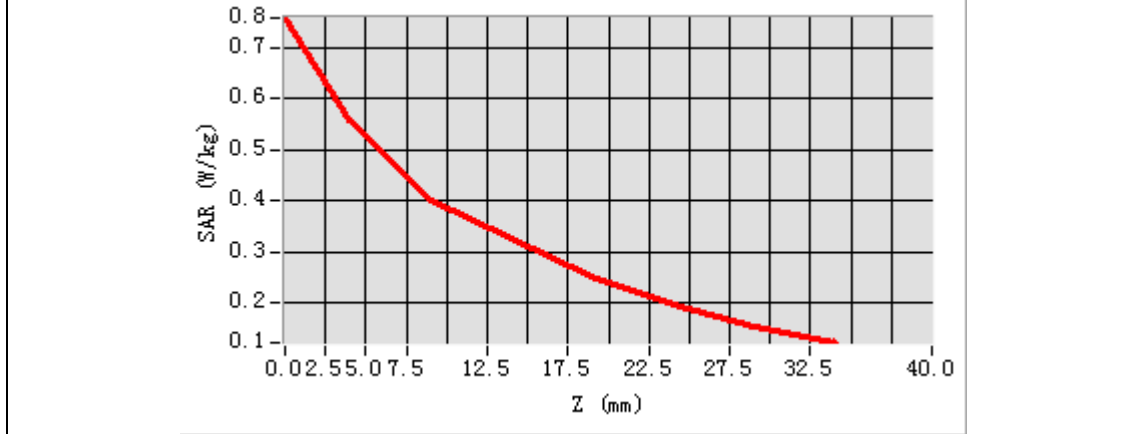
**Maximum location: X=-54.00, Y=-39.00**

**SAR Peak: 0.77 W/kg**

<b>SAR 10g (W/Kg)</b>	0.300912
<b>SAR 1g (W/Kg)</b>	0.403931

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5280	0.3671	0.1996	0.2280	0.1533	0.1057	0.1037



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**Test Laboratory: AGC Lab**  
**GPRS 850 Mid- Body- Front (2up)**  
**DUT: Smart Phone; Type: X97Pro**

**Date: Aug. 01, 2022**

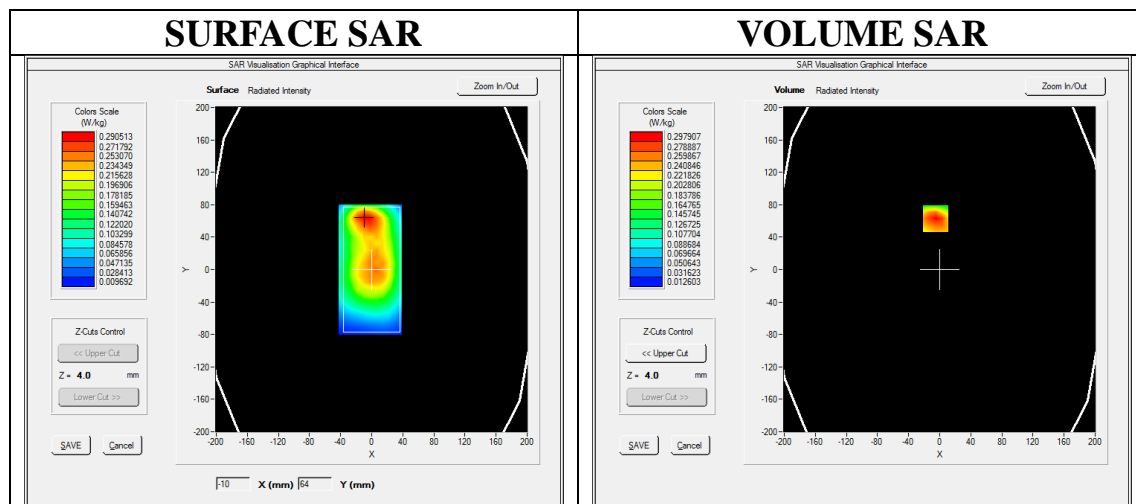
Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=1.42;  
Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.88$  mho/m;  $\epsilon r = 43.12$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.2, Liquid temperature (°C): 21.1

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

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

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Front
<b>Band</b>	GSM 850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 4.0)

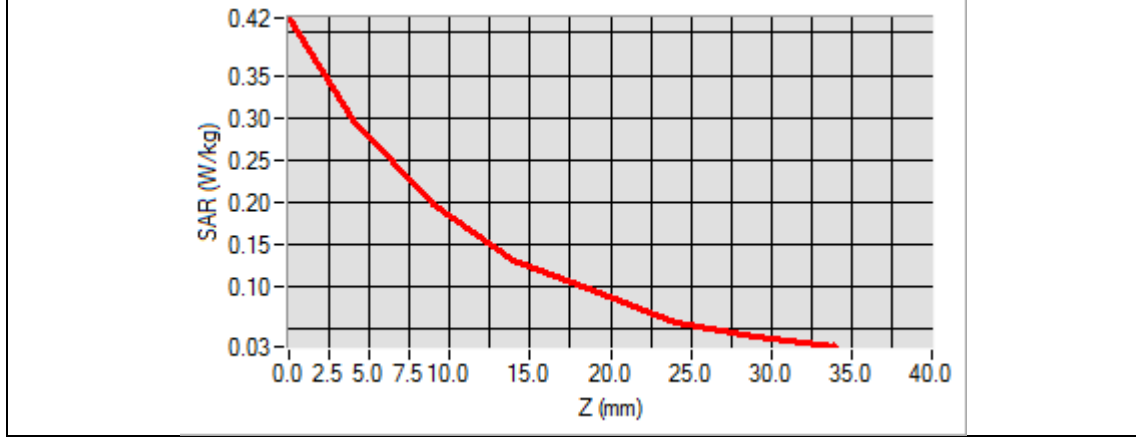


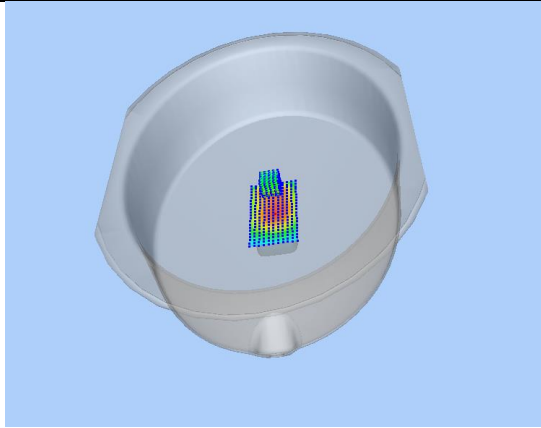
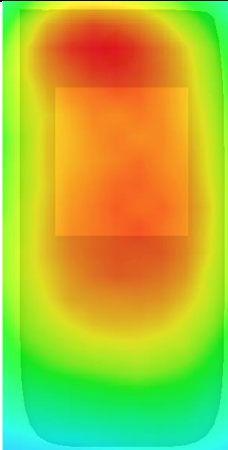
**Maximum location: X=-5.00, Y=63.00**  
**SAR Peak: 0.43 W/kg**

<b>SAR 10g (W/Kg)</b>	0.184164
<b>SAR 1g (W/Kg)</b>	0.284357

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4176	0.2979	0.1981	0.1320	0.0949	0.0588	0.0425



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab  
PCS 1900 Mid-Touch-Right <SIM 1>  
DUT: Smart Phone; Type: X97Pro

Date: Aug. 03, 2022

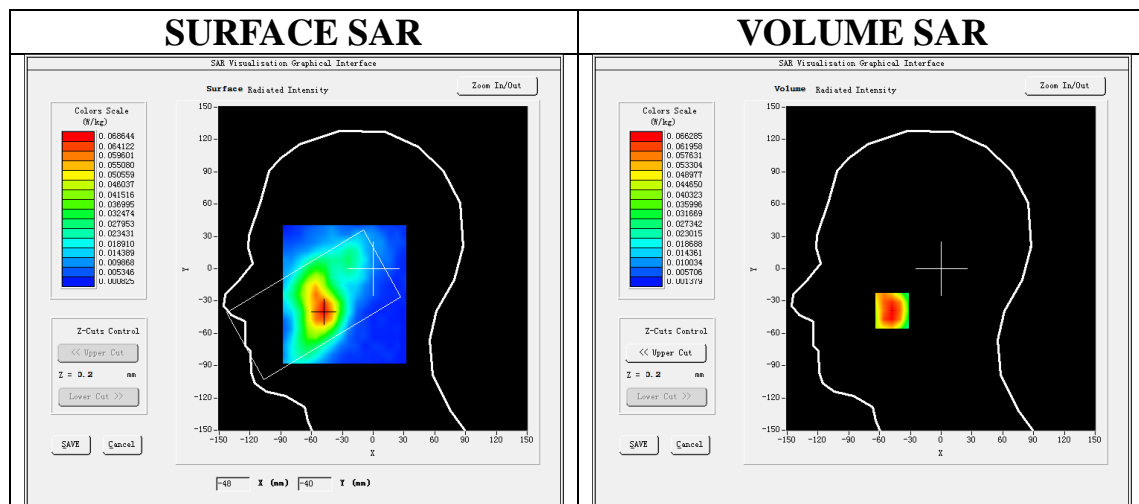
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=1.77;  
Frequency: 1880 MHz; Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 40.42$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 22.3, Liquid temperature (°C): 21.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

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

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	PCS 1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)



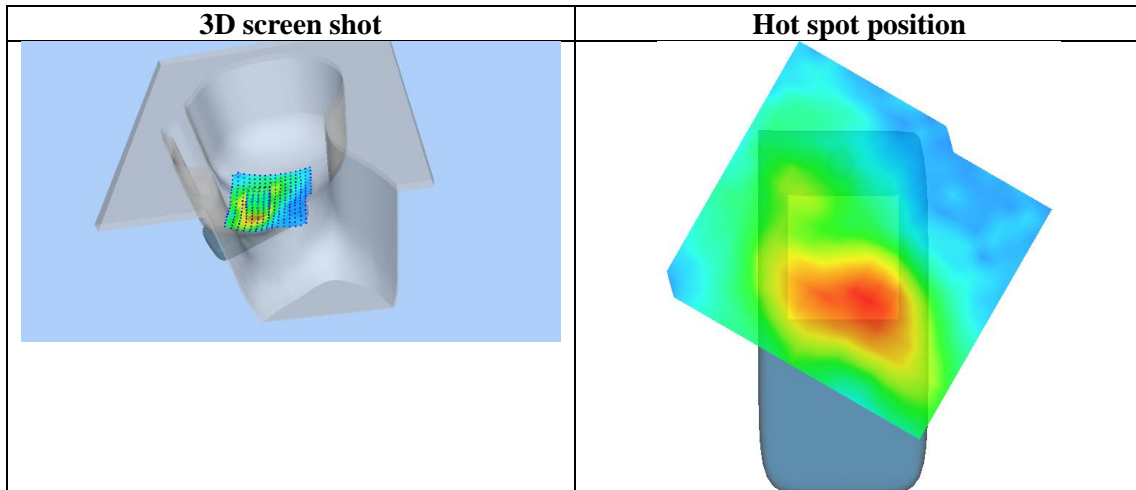
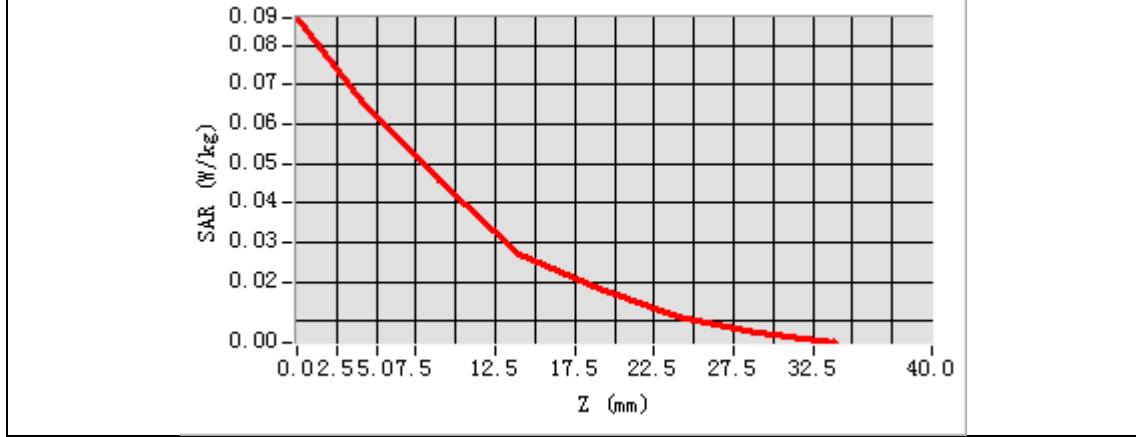
**Maximum location: X=-48.00, Y=-39.00**

**SAR Peak: 0.10 W/kg**

<b>SAR 10g (W/Kg)</b>	0.037916
<b>SAR 1g (W/Kg)</b>	0.064928

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0869	0.0663	0.0457	0.0268	0.0181	0.0113	0.0073



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**Test Laboratory: AGC Lab**  
**GPRS 1900 Mid-Body-Back (3up)**  
**DUT: Smart Phone; Type: X97Pro**

**Date: Aug. 03, 2022**

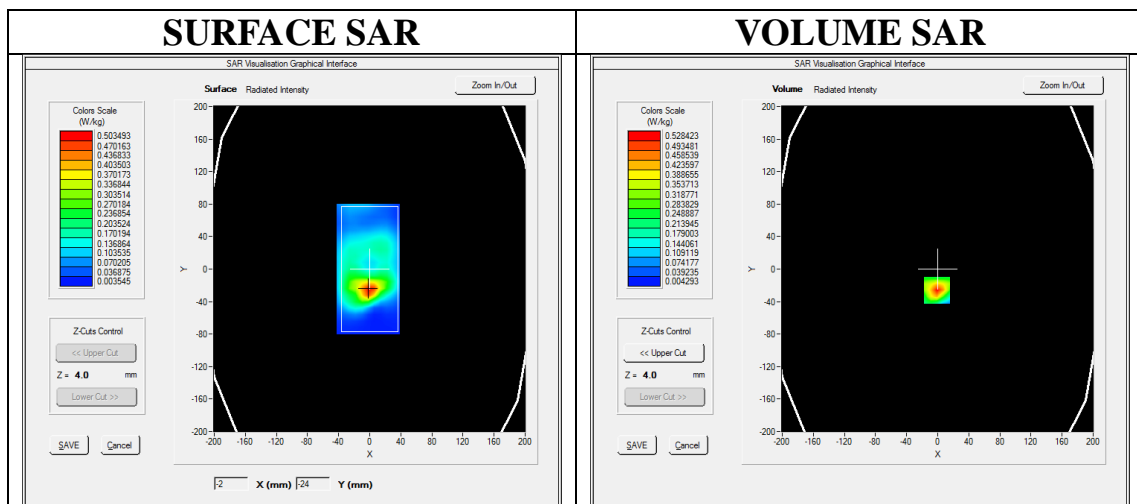
Communication System: GPRS-3Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.7; Conv.F=1.77;  
Frequency: 1880 MHz; Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 40.42$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 22.3, Liquid temperature (°C): 21.9

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

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

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	PCS 1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 2.7)



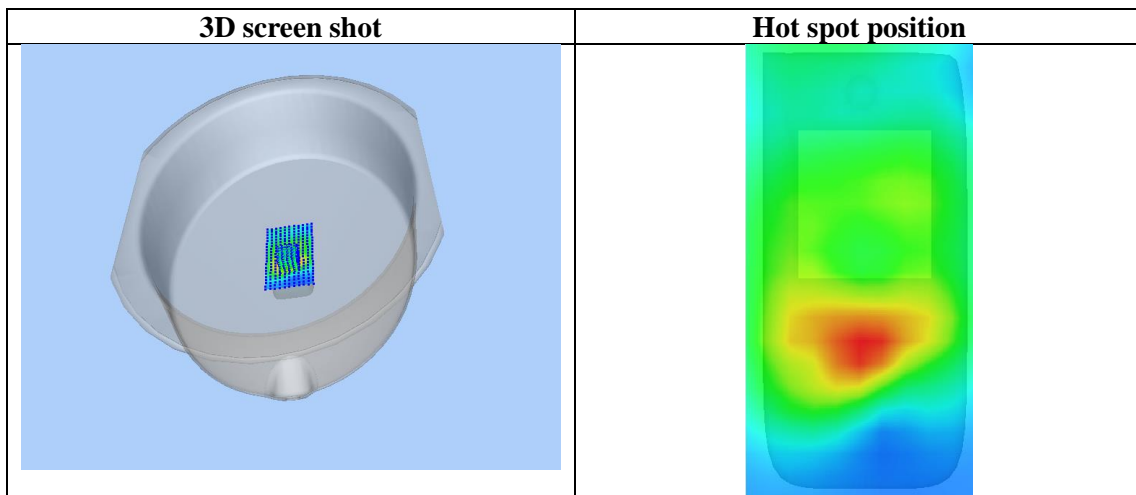
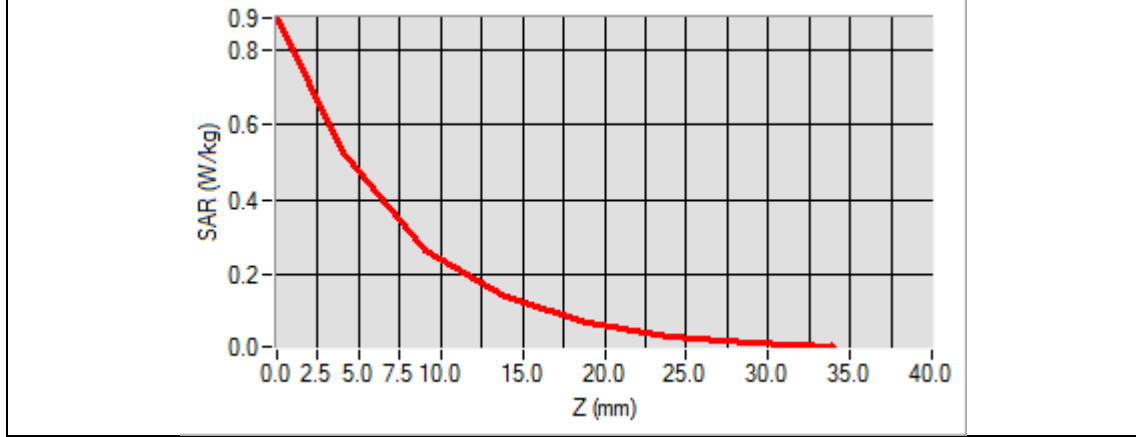
**Maximum location: X=-1.00, Y=-26.00**

**SAR Peak: 0.88 W/kg**

<b>SAR 10g (W/Kg)</b>	0.240500
<b>SAR 1g (W/Kg)</b>	0.493748

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8826	0.5284	0.2650	0.1411	0.0723	0.0367	0.0190



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**Test Laboratory: AGC Lab**  
**WCDMA Band II Mid-Touch-Right (RMC)**  
**DUT: Smart Phone; Type: X97Pro**

**Date: Aug. 03, 2022**

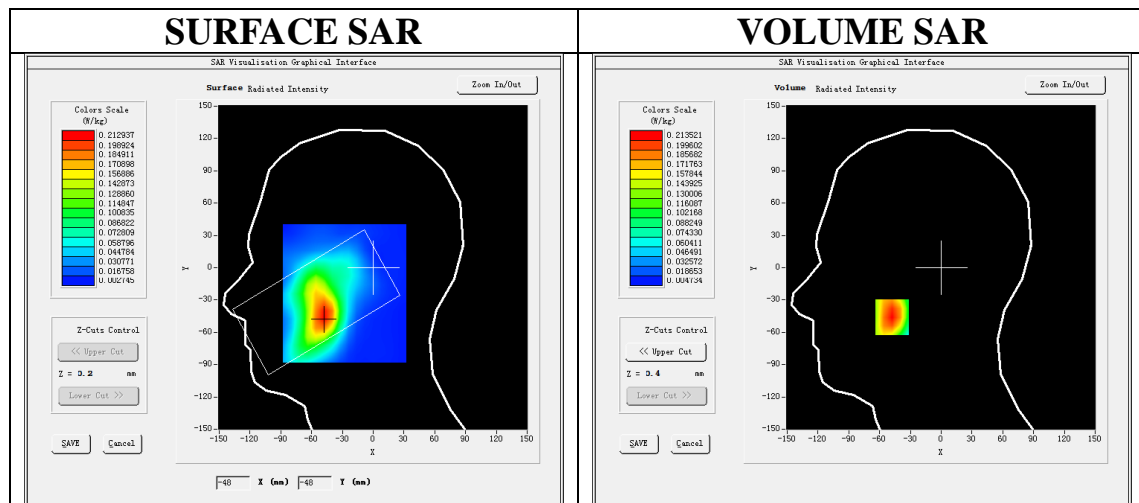
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=1.77;  
Frequency: 1880 MHz; Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 40.42$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 22.3, Liquid temperature (°C): 21.9

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**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;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	WCDMA band II
<b>Channels</b>	Middle
<b>Signal</b>	CDMA (Crest factor: 1.0)



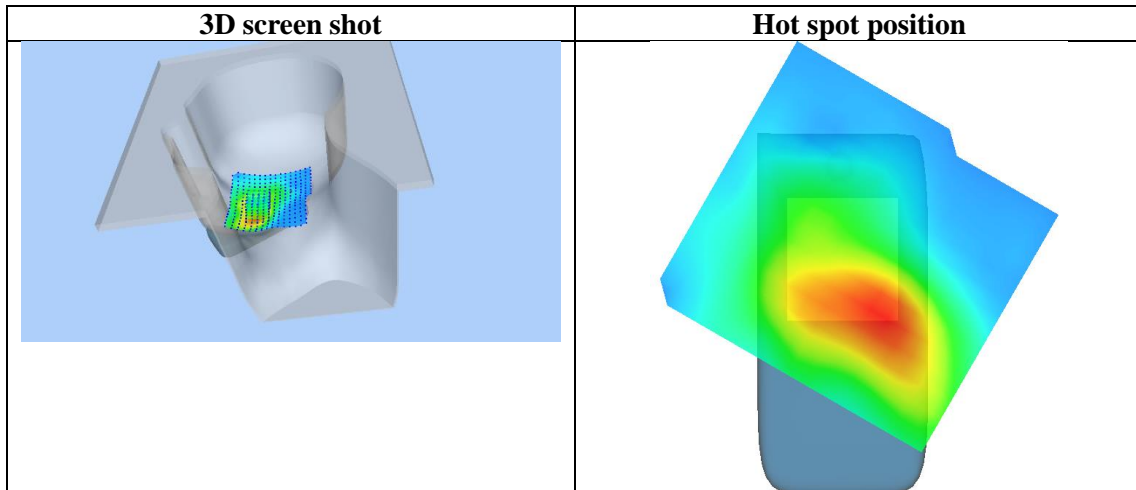
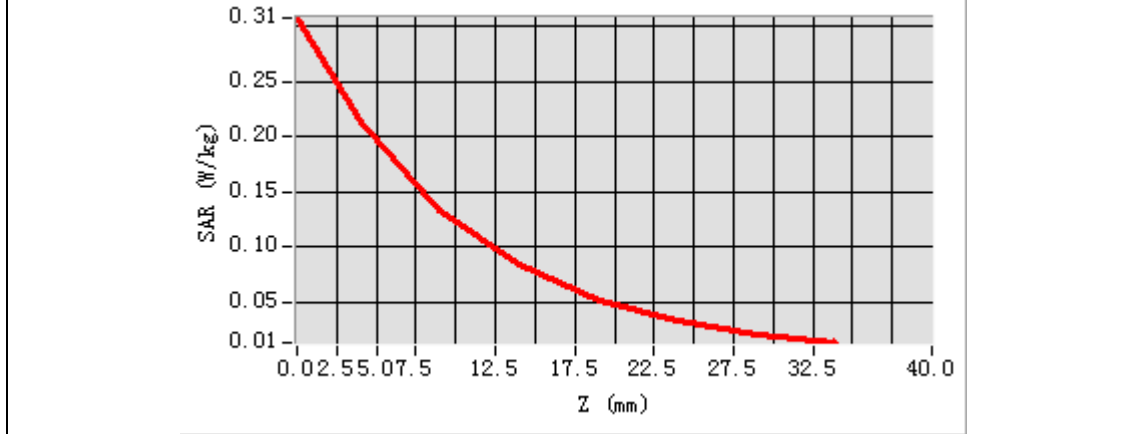
**Maximum location: X=-48.00, Y=-46.00**

**SAR Peak: 0.31 W/kg**

<b>SAR 10g (W/Kg)</b>	0.121510
<b>SAR 1g (W/Kg)</b>	0.203587

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3073	0.2135	0.1335	0.0843	0.0521	0.0330	0.0205



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**Test Laboratory: AGC Lab**  
**WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)**  
**DUT: Smart Phone; Type: X97Pro**

**Date: Aug. 03, 2022**

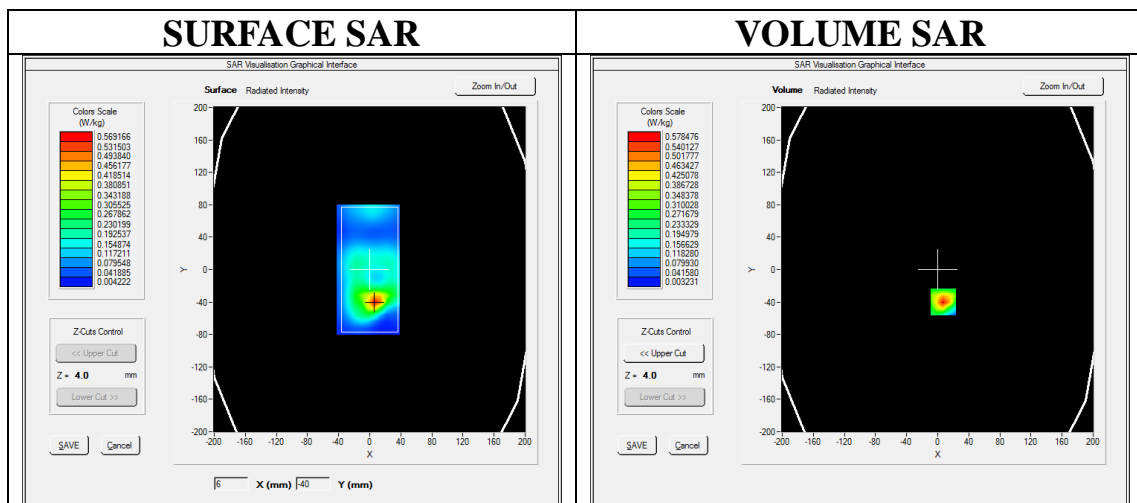
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=1.77;  
Frequency: 1880 MHz; Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 40.42$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 22.3, Liquid temperature (°C): 21.9

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

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

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	WCDMA band II
<b>Channels</b>	Middle
<b>Signal</b>	CDMA (Crest factor: 1.0)

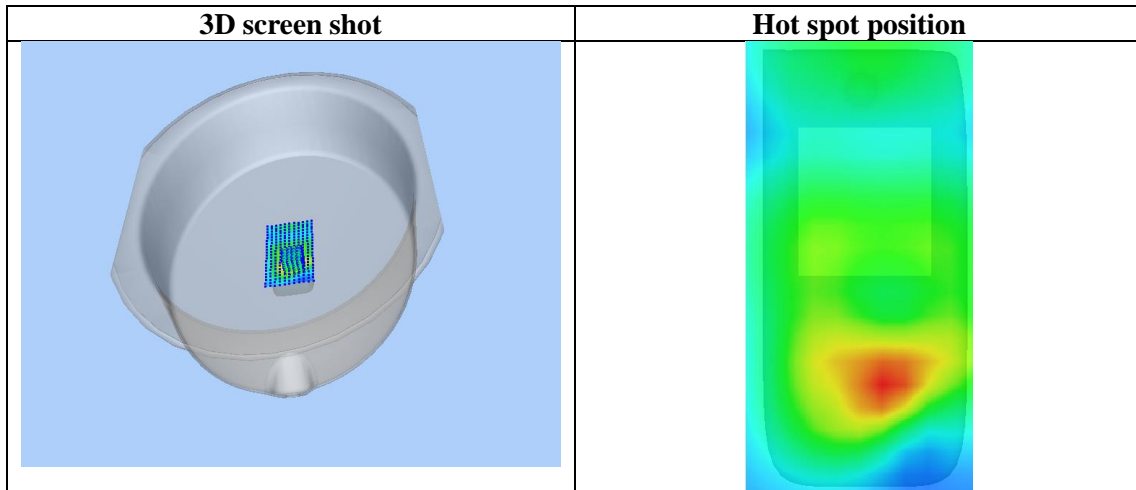
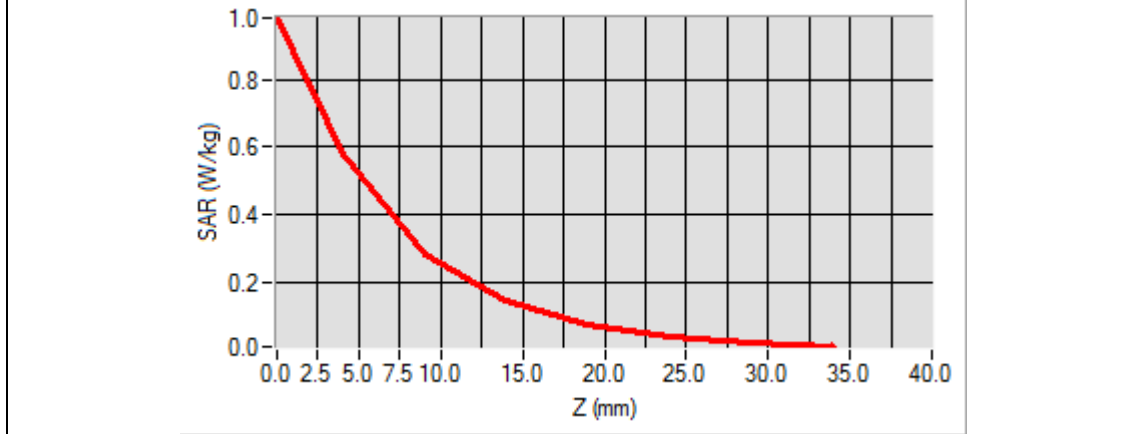


**Maximum location: X=7.00, Y=-40.00**  
**SAR Peak: 0.97 W/kg**

<b>SAR 10g (W/Kg)</b>	0.255168
<b>SAR 1g (W/Kg)</b>	0.538276

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9808	0.5785	0.2832	0.1436	0.0734	0.0376	0.0196



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**Test Laboratory: AGC Lab**  
**WCDMA Band IV Mid-Touch-Right (RMC )**  
**DUT: Smart Phone; Type: X97Pro**

**Date: Aug. 06, 2022**

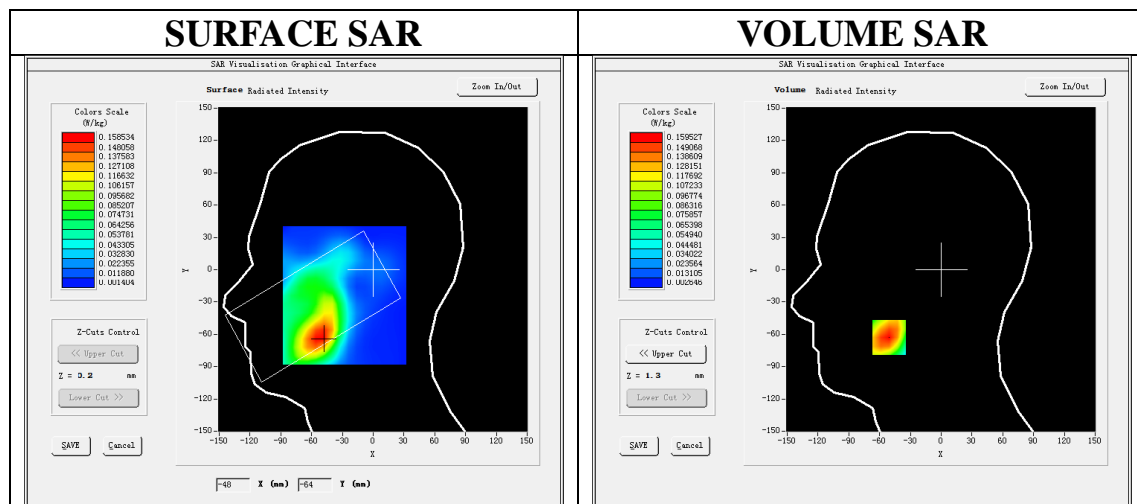
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.77; Frequency:1732.4 MHz; Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.36$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Right Section  
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

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

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	WCDMA Band IV
<b>Channels</b>	Middle
<b>Signal</b>	CDMA (Crest factor: 1.0)



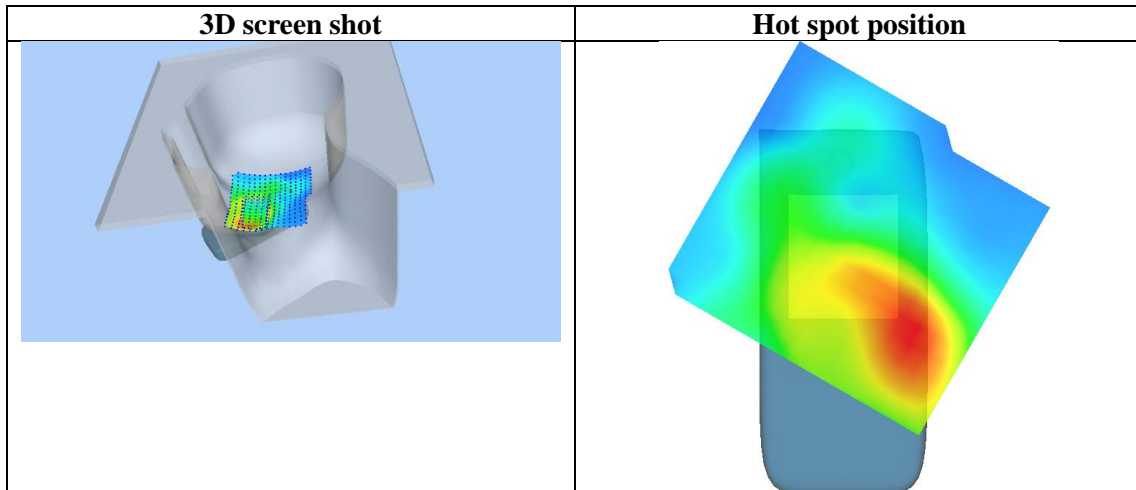
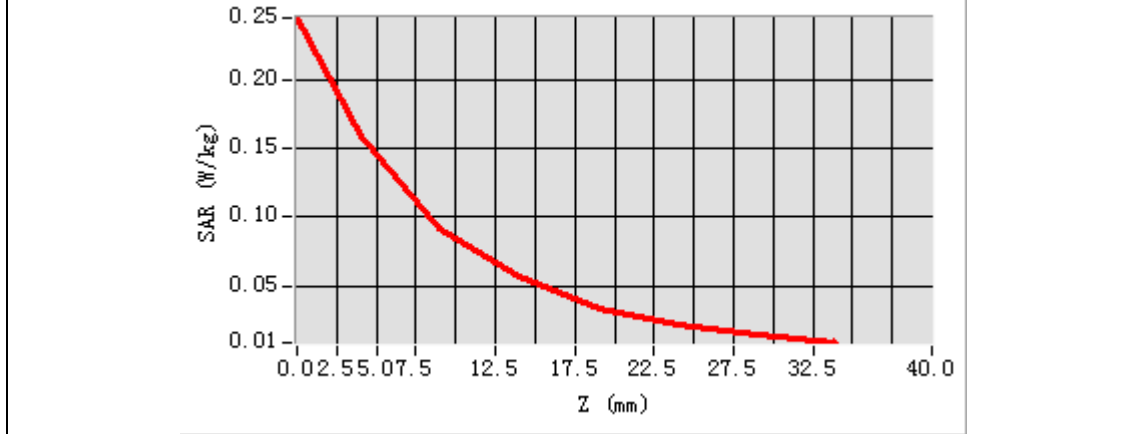
**Maximum location: X=-51.00, Y=-63.00**

**SAR Peak: 0.24 W/kg**

<b>SAR 10g (W/Kg)</b>	0.087240
<b>SAR 1g (W/Kg)</b>	0.152762

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2453	0.1595	0.0917	0.0562	0.0337	0.0212	0.0135



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**Test Laboratory: AGC Lab**  
**WCDMA Band IV Mid-Body-Towards Grounds (RMC)**  
**DUT: Smart Phone; Type: X97Pro**

**Date: Aug. 06, 2022**

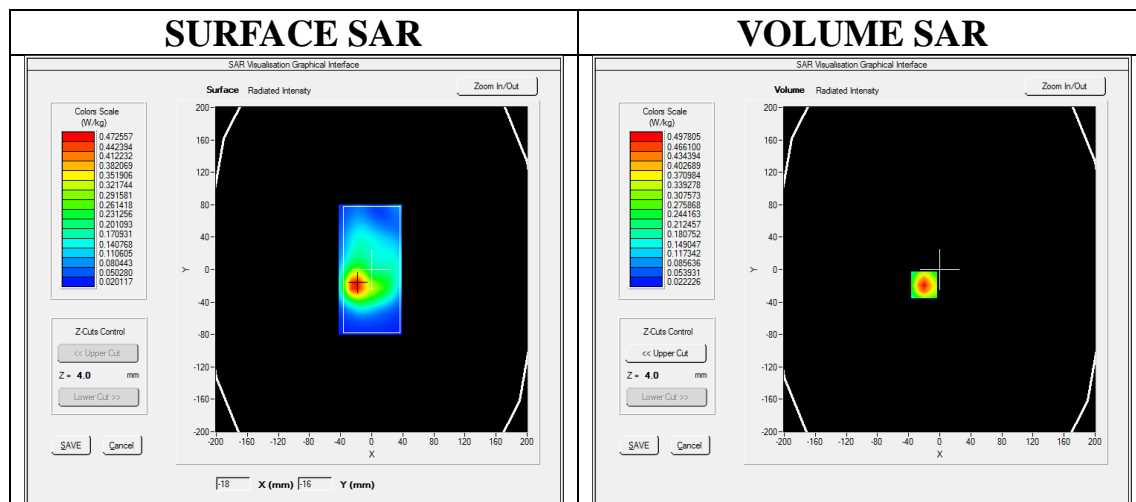
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.77;  
Frequency:1732.4 MHz; Medium parameters used:  $f = 1800$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 41.36$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

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

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Back
<b>Band</b>	WCDMA Band IV
<b>Channels</b>	Middle
<b>Signal</b>	CDMA (Crest factor: 1.0)

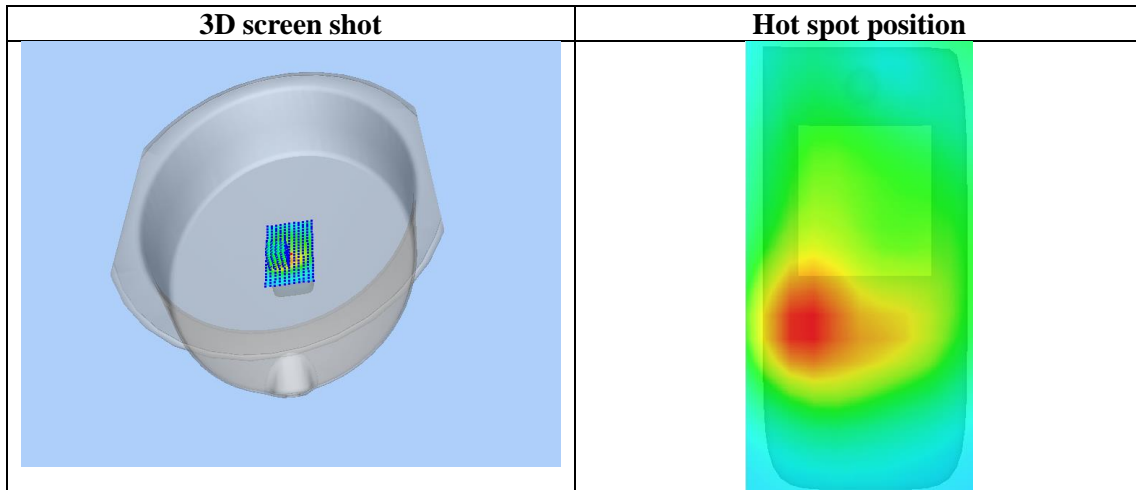
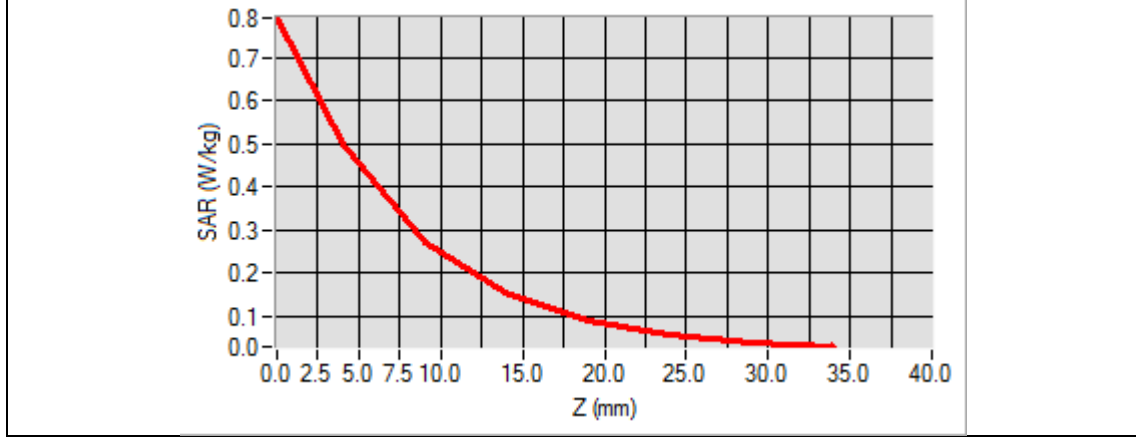


**Maximum location: X=-20.00, Y=-19.00**  
**SAR Peak: 0.80 W/kg**

<b>SAR 10g (W/Kg)</b>	0.253171
<b>SAR 1g (W/Kg)</b>	0.474064

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7927	0.4978	0.2716	0.1533	0.0905	0.0562	0.0381



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Test Laboratory: AGC Lab

Date: Aug. 01, 2022

WCDMA Band V Mid-Touch-Right (RMC)

DUT: Smart Phone; Type: X97Pro

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=1.42; Frequency: 836.4 MHz; Medium parameters used:  $f = 835\text{MHz}$ ;  $\sigma = 0.88 \text{ mho/m}$ ;  $\epsilon_r = 43.12$ ;  $\rho = 1000 \text{ kg/m}^3$  ; Phantom section: Right Section Ambient temperature ( $^{\circ}\text{C}$ ): 21.2, Liquid temperature ( $^{\circ}\text{C}$ ): 21.1

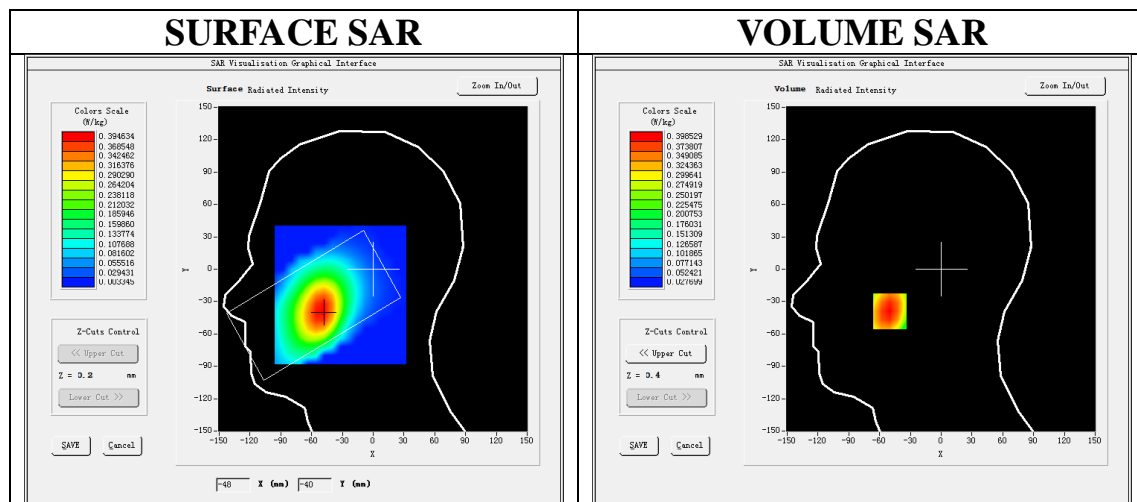
SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- 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	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-50.00, Y=-39.00

SAR Peak: 0.51 W/kg

SAR 10g (W/Kg)	0.273185
SAR 1g (W/Kg)	0.385600

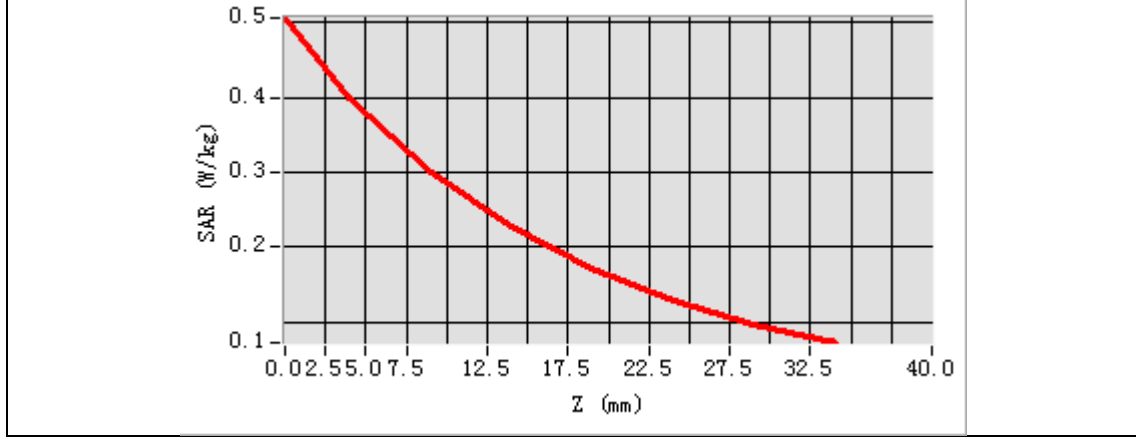
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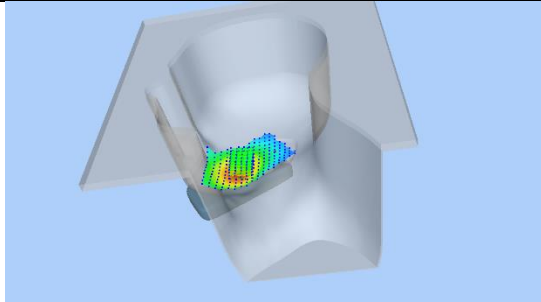
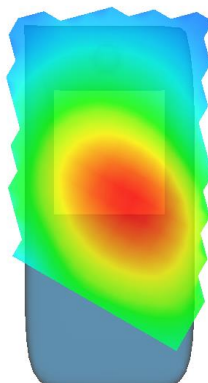
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5057	0.3985	0.2985	0.2270	0.1724	0.1298	0.0974



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab

Date: Aug. 01, 2022

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

DUT: Smart Phone; Type: X97Pro

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.42; Frequency: 836.4 MHz; Medium parameters used:  $f = 835\text{MHz}$ ;  $\sigma = 0.88 \text{ mho/m}$ ;  $\epsilon_r = 43.12$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section  
Ambient temperature ( $^{\circ}\text{C}$ ): 21.2, Liquid temperature ( $^{\circ}\text{C}$ ): 21.1

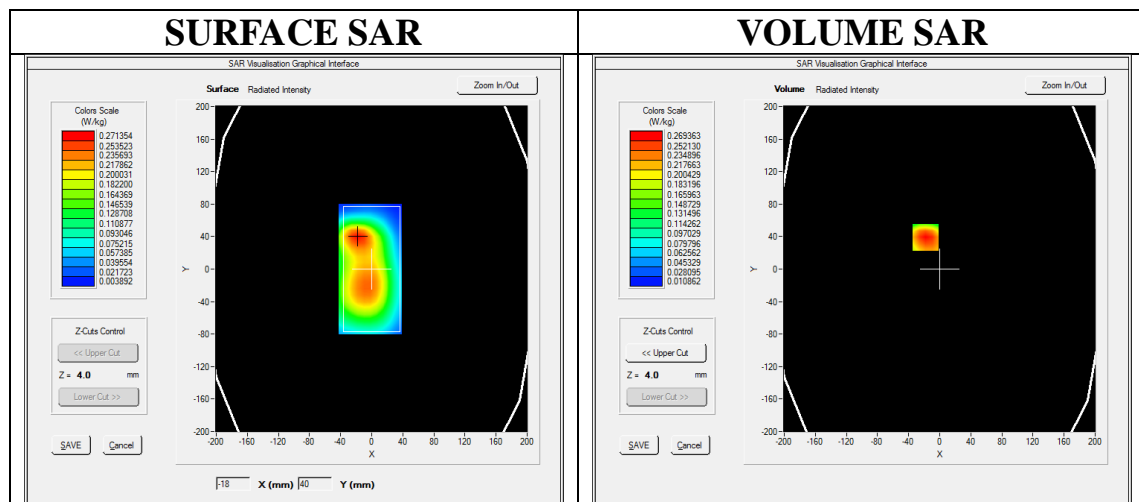
SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/ WCDMA Band V Mid-Body-Front/Area Scan: Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$

Configuration/ WCDMA Band V Mid-Body-Front/Zoom Scan: Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ ;

Area Scan	$dx=8\text{mm}$ $dy=8\text{mm}$ , $h= 5.00 \text{ mm}$
ZoomScan	$5x5x7$ , $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$ , Complete
Phantom	ELLI
Device Position	Body Front
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



**Maximum location: X=-18.00, Y=39.00**

**SAR Peak: 0.38 W/kg**

<b>SAR 10g (W/Kg)</b>	0.170865
<b>SAR 1g (W/Kg)</b>	0.258572

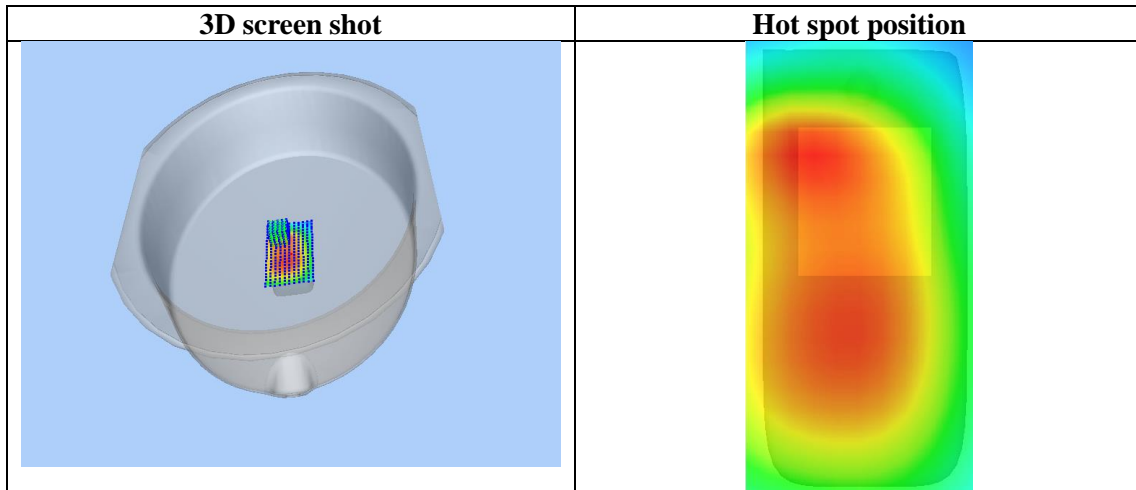
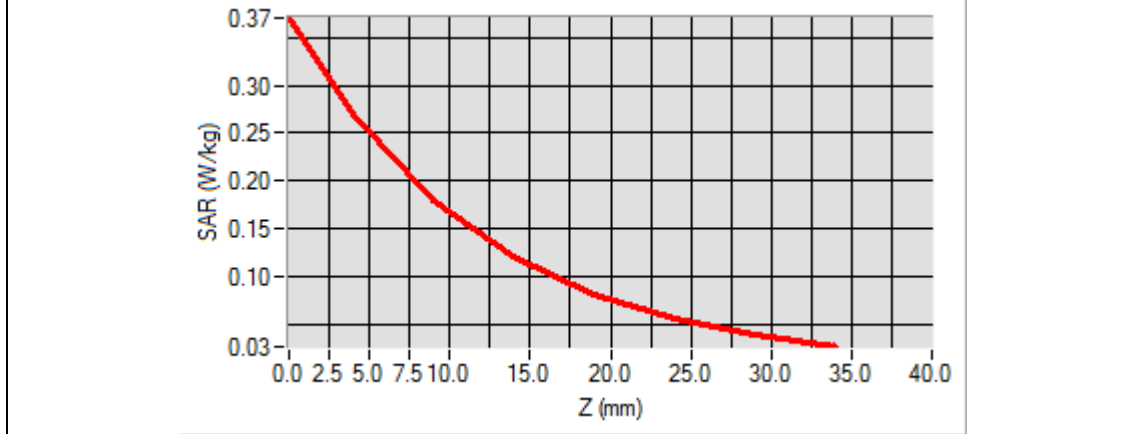
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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3708	0.2694	0.1794	0.1202	0.0810	0.0550	0.0379



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**Test Laboratory: AGC Lab**  
**LTE Band 2 Mid-Touch-Right (1 RB#0)**  
**DUT: Smart Phone; Type: X97Pro**

**Date: Aug. 04, 2022**

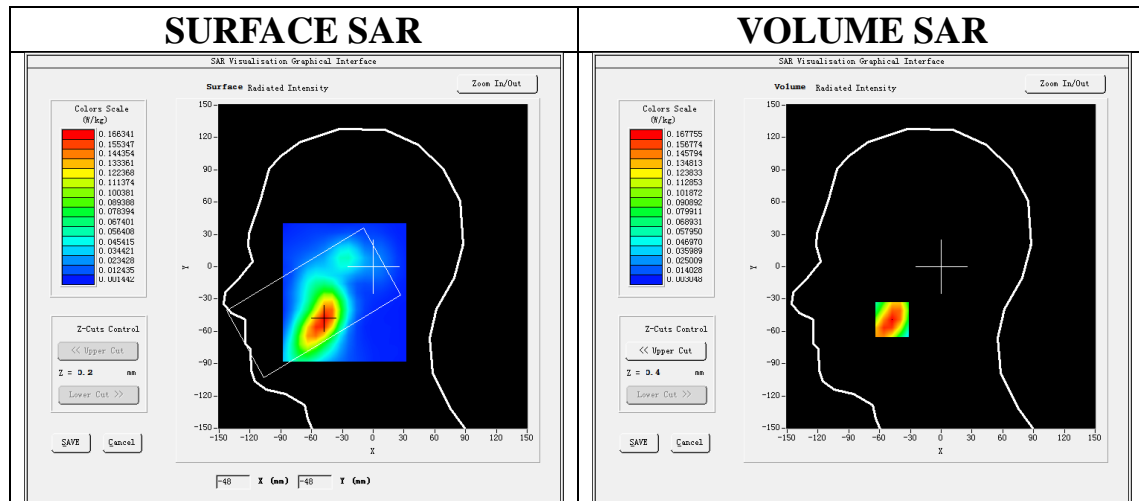
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=1.77;  
Frequency:1880MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 36.92$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.4

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 2 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 2 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 2
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-48.00, Y=-49.00**

**SAR Peak: 0.25 W/kg**

<b>SAR 10g (W/Kg)</b>	0.094012
<b>SAR 1g (W/Kg)</b>	0.161175

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