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# SAR Test Report

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Report No.: AGC10211250201FH01

**FCC ID** : 2AGVK-VIU-500A70-R2

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : VIU-500 model 700

**BRAND NAME** : SMARTMATIC

**MODEL NAME** : VIU-500 Model 700

**APPLICANT** : Smartmatic International Corporation

**DATE OF ISSUE** : Apr. 12, 2025

**STANDARD(S)** : IEEE Std. 1528:2013  
FCC 47 CFR Part 2§2.1093  
IEEE Std C95.1™-2019

**REPORT VERSION** : V1.0

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**Report Revise Record**

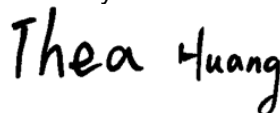
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 12, 2025	Valid	Initial Release

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Test Report	
Applicant Name	Smartmatic International Corporation
Applicant Address	Pine Lodge, #26 Pine Road St. Michael, W.I. BB, 11112 Barbados
Manufacturer Name	Aratek Biometrics Co., Ltd.
Manufacturer Address	2F, T2-A Building, ShenZhen Software Park, South Area, Hi-Tech Park, ShenZhen, Guangdong, China
Factory Name	Aratek Biometrics Co., Ltd.
Factory Address	2F, T2-A Building, ShenZhen Software Park, South Area, Hi-Tech Park, ShenZhen, Guangdong, China
Product Designation	VIU-500 model 700
Brand Name	SMARTMATIC
Model Name	VIU-500 Model 700
Series Model	BM5510
Different Description	All the models are the same, only different in model names.
EUT Voltage	DC 3.7V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1™-2019
Date of receipt of test item	Feb. 20, 2025
Test Date	Apr. 05, 2025 to Apr. 11, 2025
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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## 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 5mm separation)	Hotspot(with 5mm separation)	
GSM 850	1.223	1.227	1.227	1.6
PCS 1900	0.720	0.315	0.315	
UMTS Band II	1.199	0.376	0.376	
UMTS Band V	1.261	0.694	0.694	
LTE Band 2	1.221	0.447	0.447	
LTE Band 4	1.192	0.408	0.408	
LTE Band 5	1.229	0.835	0.835	
LTE Band 7	1.218	1.210	1.210	
WIFI 2.4G	0.159	0.163	0.163	
5.2GHz (U-NII-1)	0.320	0.633	0.633	
5.8GHz (U-NII-3)	0.332	0.583	0.583	
Simultaneous Reported SAR	1.593			
SAR Test Result	PASS			

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

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 648474 D04 Handset SAR v01r03
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 941225 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	VIU-500 model 700
Test Model	VIU-500 Model 700
Sample ID	250220033
Hardware Version	V1.1
Software Version	V03
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GSM and GPRS	
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 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;
Antenna Gain	GSM850: -1.12dBi; PCS1900: 1.69dBi
Max. Average Power	GSM850: 33.59dBm; PCS1900: 31.13dBm
WCDMA	
Support Band	<input checked="" type="checkbox"/> UMTS FDD Band II <input checked="" type="checkbox"/> UMTS FDD Band V <input 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
RX Frequency Range	FDD Band II: 1930-1990MHz; FDD Band V: 869-894MHz
Release Version	Release 6 and later
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	Band II: 1.69dBi; Band V: -1.12dBi
Max. Average Power	Band II: 23.25dBm; Band V: 23.21dBm
Bluetooth	
Bluetooth Version	V5.0
Operation Frequency	2402~2480MHz
Type of modulation	<input checked="" type="checkbox"/> GFSK <input checked="" type="checkbox"/> II/4-DQPSK <input checked="" type="checkbox"/> 8-DPSK
Peak Power	1.04dBm
Antenna Gain	3.34dBi
2.4GHz 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: 10.61dBm, 11g: 10.56dBm, 11n(20): 10.41dBm, 11n(40): 13.06dBm
Antenna Gain	3.34dBi

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### EUT Description( Continue)

<b>LTE</b>	
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 type="checkbox"/> FDD Band 12 <input type="checkbox"/> FDD Band 13 <input type="checkbox"/> FDD Band 14 <input type="checkbox"/> FDD Band 17 <input type="checkbox"/> FDD Band 25 <input type="checkbox"/> FDD Band 26 <input type="checkbox"/> TDD Band 38 <input type="checkbox"/> TDD Band 40 <input type="checkbox"/> TDD Band 41 <input type="checkbox"/> FDD Band 66 <input type="checkbox"/> FDD Band 71
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz;Band 5:824-849MHz; Band 7:2500-2570MHz;
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 7:2620-2690MHz;
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 1.69dBi; Band 4: 1.34dBi; Band 5: -1.12dBi; Band 7: 1.88dBi;
Max. Average Power	Band 2: 23.00dBm; Band 4: 22.93dBm; Band 5: 23.86dBm; Band 7:22.25dBm;
<b>5 GHz WIFI</b>	
WIFI Specification	<input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11n20 <input checked="" type="checkbox"/> 802.11n40 <input checked="" type="checkbox"/> 802.11ac20 <input checked="" type="checkbox"/> 802.11ac40 <input checked="" type="checkbox"/> 802.11ac80
Operation Frequency	U-NII-1: 5180MHz~5240MHz; U-NII-3: 5745MHz~5825MHz
Max. Average Power	U-NII-1: 10.49dBm; U-NII-3: 9.00dBm
Antenna Gain	1.56dBi
<b>Accessories</b>	
Battery	Brand name: N/A Model No. : BM5510 Voltage and Capacitance: 3.7 V & 10000mAh
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.

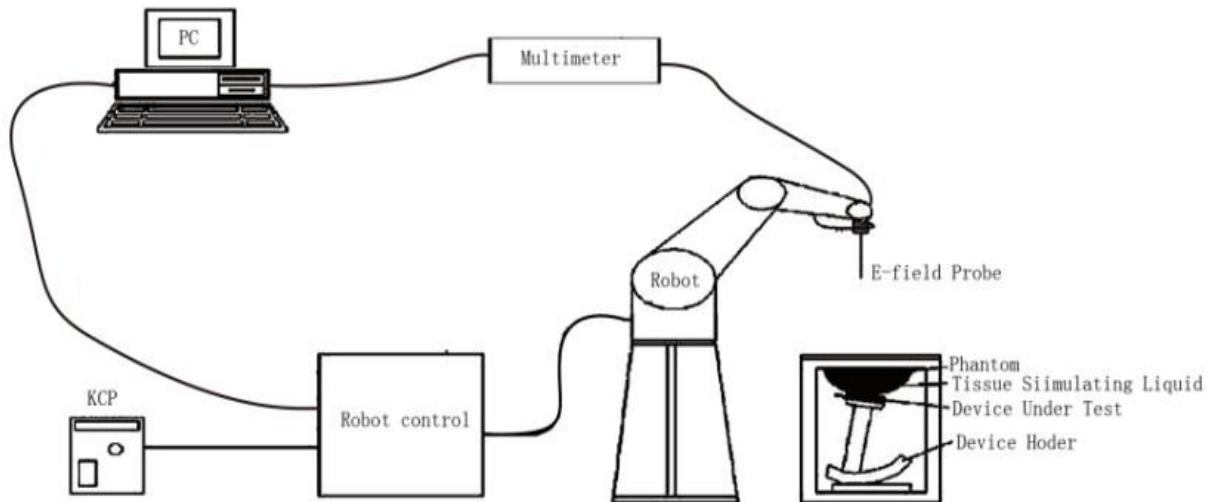
Product	Type
	<input checked="" type="checkbox"/> Production unit <input type="checkbox"/> Identical Prototype

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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

Model	SSE2	
Manufacture	MVG	
Identification No.	2023-EPGO-414	
Frequency	0.15GHz-7.5GHz Linearity:±0.08dB(0.15GHz-7.5GHz)	
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.08dB	
Dimensions	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity:1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precisin of better 30%.	

### 3.3. Robot

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

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

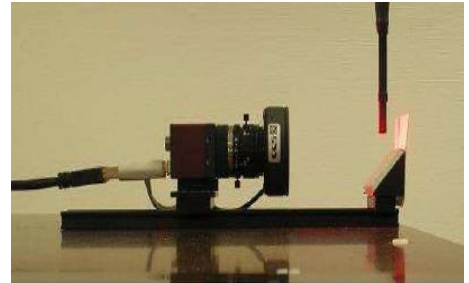
- ☐ High precision (repeatability 0.02 mm)
- ☐ High reliability (industrial design)
- ☐ Jerk-free straight movements
- ☐ Low ELF interference (the closed metallic construction shields against motor control fields)
- ☐ 6-axis controller



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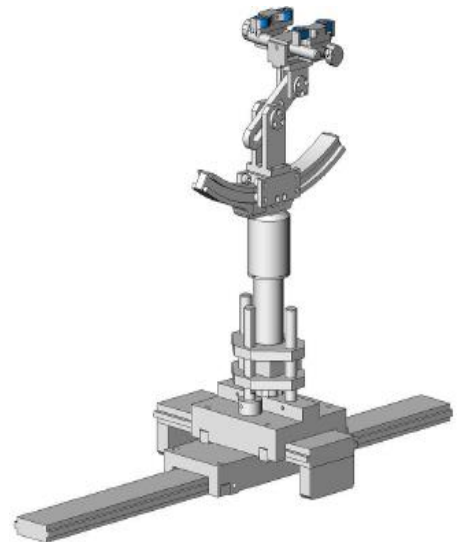
### 3.4. Video Positioning System

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.

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## 4. SAR MEASUREMENT PROCEDURE

### 4.1. Specific Absorption Rate (SAR)

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

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

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

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

SAR can be obtained using either of the following equations:

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

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

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 of 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 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

	$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
	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 $\leq$ 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 and 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: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{Zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{Zoom}(n>1)$ : between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$
Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$ , $\leq 8 \text{ mm}$ , $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

#### 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.



### 4.3. RF Exposure Conditions

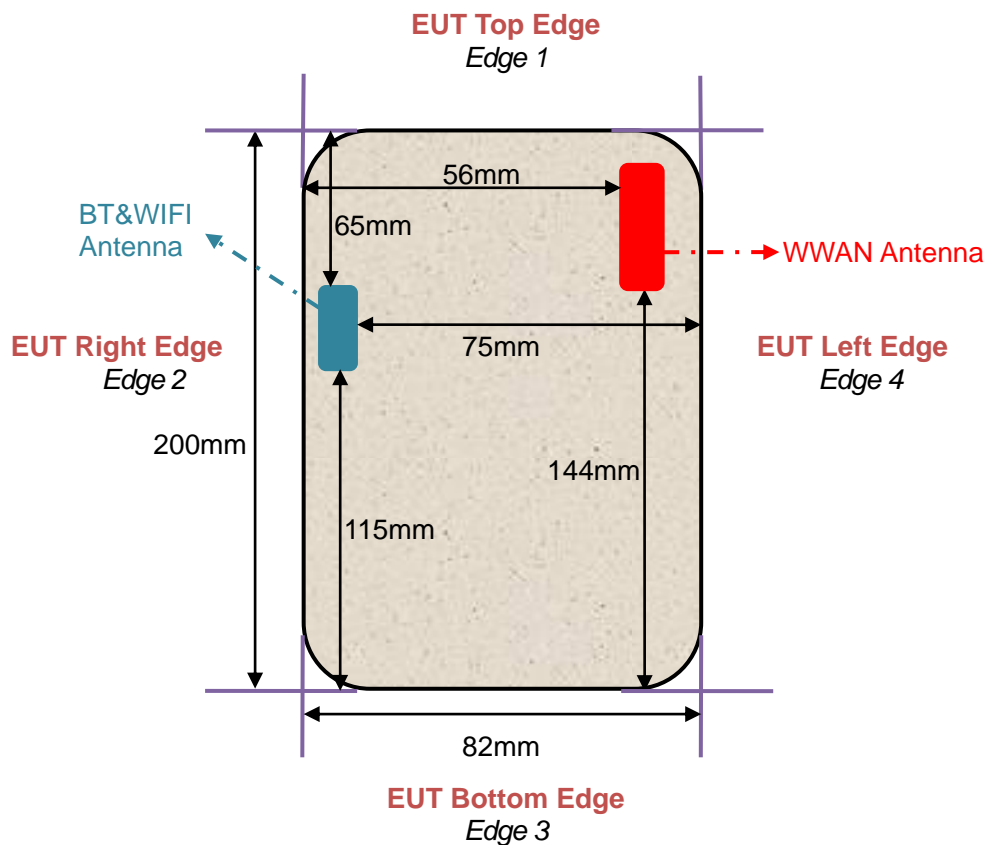
Test Configuration and setting:

The EUT is a model of GSM Portable Mobile Station (MS). It supports GSM/GPRS, 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
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	5mm	Yes	--
Edge 2 (Right)	56mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 3 (Bottom)	140mm	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)	8mm	Yes	--

For WLAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	65mm	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)	6mm	Yes	--
Edge 3 (Bottom)	115mm	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)	75mm	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 5% are listed in 5.2

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

Frequency (MHz)	Ingredient (% Weight)	Water	NaCl	Polysorbate 20	DGBE	1,2- Propanediol	Triton X-100	Diethylen glycol monohex ylether
835 Head		50.36	1.25	48.39	0.0	0.0	0.0	0.0
1750 Head		52.64	0.36	0.0	47	0.0	0.0	0.0
1900 Head		54.9	0.18	0.0	44.92	0.0	0.0	0.0
2450 Head		71.88	0.16	0.0	7.99	0.0	19.97	0.0
2600 Head		55.242	0.306	0	44.452	0	0	0.0
5000 Head		65.52	0.0	0.0	0.0	0.0	17.24	17.24

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

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

Target Frequency (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
750	41.9	0.89	41.9	0.89
<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
<b>5200</b>	<b>36.0</b>	<b>4.66</b>	<b>36.0</b>	<b>4.66</b>
5300	35.9	4.76	35.9	4.76
5600	35.5	5.07	35.5	5.07
<b>5800</b>	<b>35.3</b>	<b>5.27</b>	<b>35.3</b>	<b>5.27</b>

( $\epsilon_r$  = 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 835MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 5\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 41.5 (39.425-43.575)	$\delta$ [s/m] 0.90(0.855-0.945)		
Head	824.2	43.06	0.88	20.5	Apr. 07, 2025
	826.4	42.72	0.90		
	829	42.66	0.91		
	835	42.59	0.93		
	836.4	41.96	0.93		
	836.5	41.96	0.93		
	836.6	41.96	0.93		
	844	41.68	0.94		
	846.6	41.36	0.94		
	848.8	40.67	0.94		

Tissue Stimulant Measurement for 1750MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 5\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 40.1 (38.095-42.105)	$\delta$ [s/m] 1.37(1.3015-1.439)		
Head	1720	41.72	1.34	21.1	Apr. 06, 2025
	1732.5	40.39	1.36		
	1745	39.86	1.38		
	1750	39.22	1.40		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 5\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 40.00(38.00-42.00)	$\delta$ [s/m] 1.40(1.33-1.47)		
Head	1850.2	41.72	1.34	21.4	Apr. 05, 2025
	1852.4	40.68	1.34		
	1860	40.18	1.35		
	1880	39.81	1.37		
	1900	39.52	1.39		
	1907.6	38.76	1.40		
	1909.8	38.42	1.41		

Tissue Stimulant Measurement for 2450MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 5\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 39.2(37.24-41.16)	$\delta$ [s/m] 1.80(1.71-1.89)		
Head	2437	39.62	1.79	21.0	Apr. 08, 2025
	2450	38.96	1.81		

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Tissue Stimulant Measurement for 2600MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 5\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 39(37.05-40.95)	$\delta$ [s/m]1.96(1.86-2.06)		
	2510	40.66	1.87	21.3	Apr. 09, 2025
	2535	40.32	1.89		
	2560	39.97	1.90		
	2600	39.78	1.92		

Tissue Stimulant Measurement for 5200MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 5\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 36.0(34.105-37.695)	$\delta$ [s/m] 4.66(4.427-4.893)		
	5200	35.44	4.57	21.1	Apr. 10, 2025

Tissue Stimulant Measurement for 5800MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 5\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 35.3 (33.535-37.065)	$\delta$ [s/m] 5.27 (5.0065-5.5335)		
	5785	36.32	5.16	19.8	Apr. 11, 2025
	5800	36.10	5.18		

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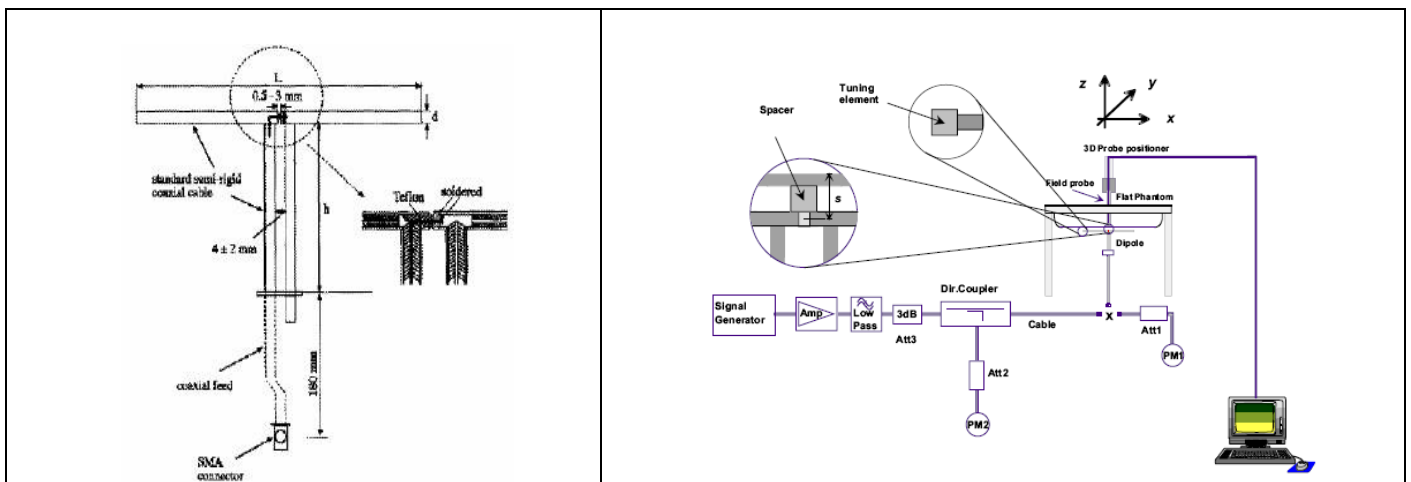
## 6. SAR SYSTEM CHECK PROCEDURE

### 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.

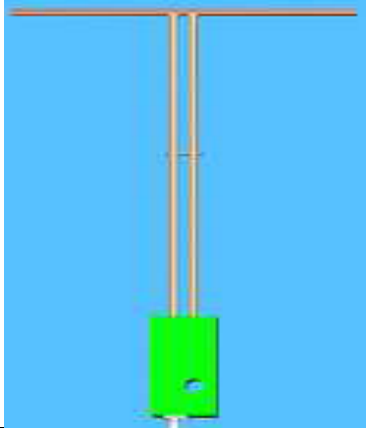

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



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## 6.2. SAR System Check

### 6.2.1. Dipoles

	<p>The dipoles are based on the IEEE-1528 standard, and are complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical Specifications for the dipoles.</p>
	<p>The dipole is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. The table below provides details for the mechanical and electrical specifications for the wave guide.</p>

Frequency	L (mm)	h (mm)	d (mm)
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
5000MHz	20.6	40.3	3.6

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## 6.2.2. System Check Result

System Performance Check at 835MHz &1800MHz &1900MHz &2450MHz&2600MHz & 5200-5800MHz for Head								
Validation Kit: 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& SN 17/22 DIP 5G000-671								
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		
835	9.67	6.14	8.703-10.637	5.526-6.754	9.00	6.45	20.5	Apr. 07, 2025
835	9.67	6.14	8.703-10.637	5.526-6.754	10.30	6.55	20.5	Apr. 07, 2025
1800	37.76	19.60	33.984-41.536	17.640-21.560	37.12	18.92	21.1	Apr. 06, 2025
1800	37.76	19.60	33.984-41.536	17.640-21.560	34.96	19.00	21.1	Apr. 06, 2025
1900	41.26	20.86	37.134-45.386	18.774-22.946	40.40	20.57	21.4	Apr. 05, 2025
1900	41.26	20.86	37.134-45.386	18.774-22.946	40.48	21.57	21.4	Apr. 05, 2025
2450	54.32	24.25	48.888-59.752	21.825-26.675	49.05	21.98	21.0	Apr. 08, 2025
2450	54.32	24.25	48.888-59.752	21.825-26.675	57.55	26.18	21.0	Apr. 08, 2025
2600	54.94	23.77	49.446-60.434	21.393-26.147	52.78	23.08	21.3	Apr. 09, 2025
2600	54.94	23.77	49.446-60.434	21.393-26.147	54.77	24.32	21.3	Apr. 09, 2025
5200	73.43	21.83	66.087-80.773	19.647-24.013	79.30	20.70	21.1	Apr. 10, 2025
5200	73.43	21.83	66.087-80.773	19.647-24.013	70.80	23.50	21.1	Apr. 10, 2025
5800	75.69	22.44	68.121-83.259	20.196-24.684	71.60	23.90	19.8	Apr. 11, 2025
5800	75.69	22.44	68.121-83.259	20.196-24.684	71.10	21.60	19.8	Apr. 11, 2025

Note:

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

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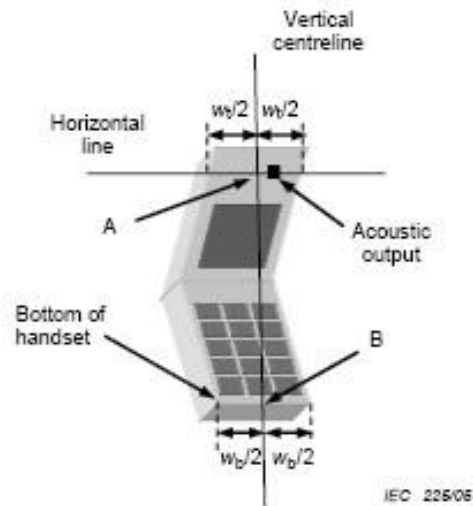
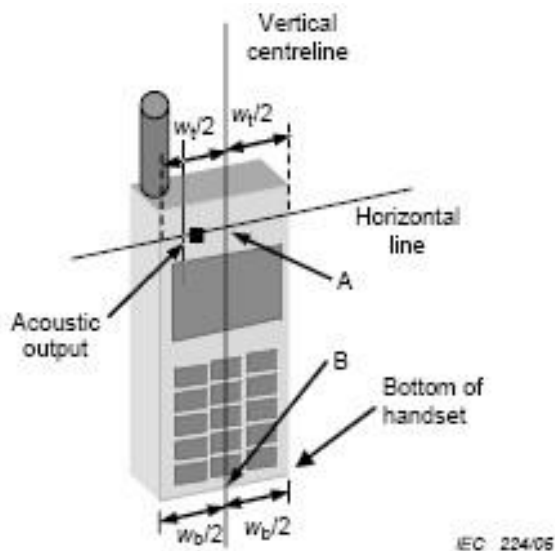
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## 7. EUT TEST POSITION

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

### 7.1. Define Two Imaginary Lines on the Handset

- (1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width  $w_t$  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

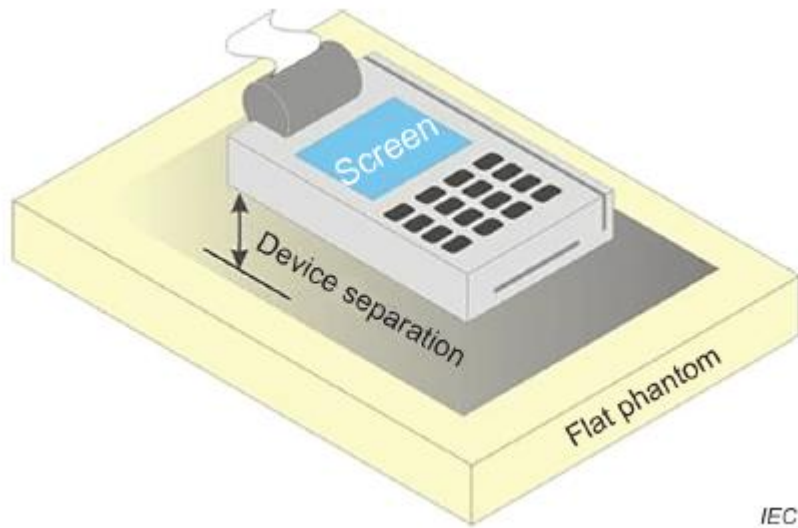
- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



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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 **5mm**.



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## 8. SAR EXPOSURE LIMITS

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

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

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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/>

## 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	2023-EPGO-414	N/A	Apr. 30, 2024	Apr. 29, 2025
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	GB46200384	N/A	May 28, 2024	May 27, 2025
Comm Tester	R&S- CMW500	121209	V3.7.40	May 23, 2024	May 22, 2025
Multimeter	Keithley 2000	4114939	N/A	May 24, 2024	May 23, 2025
SAR Software	MVG-OpenSAR	N/A	OpenSAR V4_02_35	N/A	N/A
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
Dipole	SID5000	SN 17/22 DIP 5G000-671	N/A	Apr. 28,2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	May 24, 2024	May 23, 2025
EXA Signal Analyzer	Agilent / N9010A	MY53470504	N/A	May 28, 2024	May 27, 2025
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Jul. 24, 2024	Jul. 23, 2025
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 06, 2024	June 05, 2025
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 06, 2024	June 05, 2025
Amplifier	AS0104-55_55	1004793	N/A	N/A	N/A
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Feb. 01, 2024	Jan. 31, 2026
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Feb. 01, 2024	Jan. 31, 2026
Power Sensor	NRP-Z21	104604	N/A	May 24, 2024	May 23, 2025
Power Sensor	NRP-Z23	100323	N/A	Jun. 05, 2024	Jun. 04, 2025
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	Nov. 08, 2024	Nov. 07, 2025
Thermometer	DigiMate/TP677	3811930452	N/A	June 06, 2024	June 05, 2025

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- 2023-EPGO-414 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	0.090	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	0.037	0.037	∞
Hemispherical Isotropy	E.2.2	0.090	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	0.037	0.037	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.890	R	$\sqrt{3}$	1	1	0.514	0.514	∞
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				10.526	10.341	
Expanded Uncertainty (95% Confidence interval)			K=2				21.052	20.682	

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SATIMO Uncertainty- 2023-EPGO-414									
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	0.090	R	$\sqrt{3}$	1	1	0.052	0.052	∞
Hemispherical Isotropy	E.2.2	0.090	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	0.890	R	$\sqrt{3}$	1	1	0.514	0.514	∞
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				10.459	10.272	
Expanded Uncertainty (95% Confidence interval)			K=2				20.917	20.545	

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SATIMO Uncertainty- 2023-EPGO-414									
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	0.090	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	0.090	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	0.890	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	<b>33.59</b>	-9	24.59
	836.6	33.54	-9	24.54
	848.8	33.47	-9	24.47
GPRS 850 (1 Slot)	824.2	33.41	-9	24.41
	836.6	33.36	-9	24.36
	848.8	33.42	-9	24.42
GPRS 850 (2 Slot)	824.2	32.98	-6	26.98
	836.6	32.99	-6	26.99
	848.8	32.95	-6	26.95
GPRS 850 (3 Slot)	824.2	31.88	-4.26	27.62
	836.6	31.96	-4.26	27.70
	848.8	31.79	-4.26	27.53
GPRS 850 (4 Slot)	824.2	30.67	-3	27.67
	836.6	30.81	-3	<b>27.81</b>
	848.8	30.78	-3	27.78

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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	31.04	-9	22.04
	1880	<b>31.13</b>	-9	22.13
	1909.8	30.04	-9	21.04
GPRS1900 ( 1 Slot )	1850.2	30.98	-9	21.98
	1880	30.84	-9	21.84
	1909.8	30.99	-9	21.99
GPRS1900 ( 2 Slot )	1850.2	30.65	-6	24.65
	1880	30.47	-6	24.47
	1909.8	30.58	-6	24.58
GPRS1900 ( 3 Slot )	1850.2	29.67	-4.26	<b>25.41</b>
	1880	29.32	-4.26	25.06
	1909.8	29.16	-4.26	24.90
GPRS1900 ( 4 Slot )	1850.2	28.31	-3	25.31
	1880	28.34	-3	25.34
	1909.8	28.39	-3	25.39

**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  $d = 15/15$ .



### 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)	$\beta_{ed}$ (Code s)	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	23.24
	1880	<b>23.25</b>
	1907.6	23.20
HSDPA Subtest 1	1852.4	21.61
	1880	21.61
	1907.6	21.33
HSDPA Subtest 2	1852.4	20.48
	1880	20.53
	1907.6	20.46
HSDPA Subtest 3	1852.4	19.98
	1880	19.74
	1907.6	19.42
HSDPA Subtest 4	1852.4	19.63
	1880	19.55
	1907.6	19.45
HSUPA Subtest 1	1852.4	19.27
	1880	20.14
	1907.6	20.35
HSUPA Subtest 2	1852.4	20.35
	1880	20.31
	1907.6	20.41
HSUPA Subtest 3	1852.4	20.06
	1880	20.14
	1907.6	20.28
HSUPA Subtest 4	1852.4	20.16
	1880	20.27
	1907.6	19.66
HSUPA Subtest 5	1852.4	20.56
	1880	20.51
	1907.6	20.72

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**UMTS BAND V**

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	<b>23.21</b>
	836.4	23.07
	846.6	23.14
HSDPA Subtest 1	826.4	21.51
	836.4	21.45
	846.6	21.25
HSDPA Subtest 2	826.4	20.25
	836.4	20.31
	846.6	20.44
HSDPA Subtest 3	826.4	19.87
	836.4	19.53
	846.6	19.42
HSDPA Subtest 4	826.4	19.41
	836.4	19.37
	846.6	19.24
HSUPA Subtest 1	826.4	19.27
	836.4	20.11
	846.6	20.24
HSUPA Subtest 2	826.4	20.31
	836.4	20.21
	846.6	20.18
HSUPA Subtest 3	826.4	20.04
	836.4	20.02
	846.6	20.13
HSUPA Subtest 4	826.4	20.06
	836.4	20.14
	846.6	19.45
HSUPA Subtest 5	826.4	20.53
	836.4	20.42
	846.6	20.51

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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 $\beta_c/\beta_d=12/15$ , $\beta_{hs}/\beta_c=24/15$ . 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

Average 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	22.80	22.76	22.76
			3	0	22.98	22.98	22.95
			5	0	22.82	22.74	22.75
		3	0	0	22.90	22.88	22.88
			2	0	22.91	22.87	22.87
			3	0	22.88	22.90	22.84
		6	0	1	21.86	21.83	21.76
	16QAM	1	0	1	21.93	21.79	21.74
			3	1	22.21	22.01	21.94
			5	1	21.93	21.85	21.75
		3	0	1	21.87	22.04	22.01
			2	1	21.81	21.89	22.01
			3	1	21.90	21.99	22.00
		6	0	2	20.93	20.83	20.88
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18615	18900	19185
3MHz	QPSK	1	0	0	22.98	22.80	22.77
			7	0	22.86	22.78	22.79
			14	0	22.85	22.73	22.74
		8	0	1	22.26	21.77	21.75
			4	1	22.31	21.77	21.77
			7	1	22.16	21.77	21.78
		15	0	1	22.33	21.84	21.79
	16QAM	1	0	1	21.87	22.44	21.88
			7	1	21.83	22.38	21.91
			14	1	21.80	22.36	21.88
		8	0	2	20.91	21.02	20.80
			4	2	20.96	21.03	20.81
			7	2	20.90	21.03	20.79
		15	0	2	20.95	20.95	20.79

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Average 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	22.74	22.69	22.68
			13	0	22.93	22.89	22.84
			24	0	22.72	22.71	22.68
		12	0	1	22.26	21.77	21.69
			6	1	22.23	21.73	21.72
			13	1	22.28	21.81	21.74
		25	0	1	22.27	21.81	21.76
	16QAM	1	0	1	21.77	21.67	22.00
			13	1	21.93	21.78	22.13
			24	1	21.79	21.64	21.94
		12	0	2	20.77	20.80	20.79
			6	2	20.80	20.82	20.75
			13	2	20.80	20.85	20.81
		25	0	2	20.98	20.89	20.77
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18650	18900	19150
10MHz	QPSK	1	0	0	22.89	22.77	22.74
			25	0	<b>23.00</b>	22.89	22.91
			49	0	22.75	22.72	22.75
		25	0	1	22.27	21.73	21.79
			13	1	22.25	21.76	21.78
			25	1	22.19	21.80	21.79
		50	0	1	22.27	21.80	21.78
	16QAM	1	0	1	21.81	22.35	21.88
			25	1	22.06	22.47	22.05
			49	1	21.71	22.33	21.82
		25	0	2	21.05	20.86	20.89
			13	2	20.97	20.83	20.92
			25	2	20.91	20.91	20.87
		50	0	2	21.01	20.85	20.85

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Average 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	22.81	22.63	22.68
			38	0	22.78	22.78	22.78
			74	0	22.65	22.67	22.64
		36	0	1	22.24	21.81	21.84
			18	1	22.28	21.77	21.82
			39	1	22.20	21.76	21.87
		75	0	1	22.27	21.79	21.78
	16QAM	1	0	1	22.11	22.31	21.78
			38	1	22.21	22.42	21.92
			74	1	22.11	22.14	21.75
		36	0	2	20.77	20.81	20.84
			18	2	20.78	20.83	20.89
			39	2	20.93	20.83	20.87
		75	0	2	20.84	20.80	20.97
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18700	18900	19100
20MHz	QPSK	1	0	0	22.43	22.56	22.48
			50	0	22.83	22.94	22.93
			99	0	22.46	22.48	22.46
		50	0	1	22.35	21.75	21.88
			25	1	22.31	21.76	21.86
			50	1	21.67	21.76	21.83
		100	0	1	22.25	21.77	21.86
	16QAM	1	0	1	22.03	21.88	21.72
			50	1	22.52	22.29	22.15
			99	1	22.09	21.76	21.65
		50	0	2	20.91	20.81	20.96
			25	2	20.90	20.78	20.94
			50	2	20.76	20.82	20.90
		100	0	2	20.80	20.84	20.94

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Average 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	22.72	22.61	22.53
			3	0	22.92	22.75	22.71
			5	0	22.71	22.52	22.53
		3	0	0	22.86	22.68	22.61
			2	0	<b>22.93</b>	22.67	22.65
			3	0	22.86	22.67	22.61
		6	0	1	21.81	21.64	21.60
	16QAM	1	0	1	21.83	21.59	21.66
			3	1	22.02	21.76	21.87
			5	1	21.81	21.59	21.66
		3	0	1	22.00	21.90	21.55
			2	1	22.06	21.87	21.54
			3	1	22.02	21.88	21.60
		6	0	2	20.82	20.70	20.67
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19965	20175	20385
3MHz	QPSK	1	0	0	22.83	22.64	22.59
			7	0	22.80	22.54	22.60
			14	0	22.77	22.54	22.56
		8	0	1	21.83	21.61	21.58
			4	1	21.80	21.62	21.59
			7	1	21.81	21.60	21.56
		15	0	1	21.79	21.65	21.58
	16QAM	1	0	1	21.92	22.19	21.72
			7	1	21.85	22.19	21.74
			14	1	21.86	22.16	21.68
		8	0	2	20.94	20.84	20.62
			4	2	20.95	20.85	20.62
			7	2	20.95	20.85	20.60
		15	0	2	20.94	20.80	20.58

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Average 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	22.71	22.52	22.50
			13	0	22.83	22.64	22.64
			24	0	22.73	22.52	22.50
		12	0	1	21.74	21.60	21.55
			6	1	21.75	21.59	21.55
			13	1	21.76	21.57	21.56
		25	0	1	21.78	21.60	21.54
	16QAM	1	0	1	21.83	21.43	21.79
			13	1	21.93	21.52	21.91
			24	1	21.76	21.44	21.76
		12	0	2	20.75	20.67	20.63
			6	2	20.73	20.65	20.63
			13	2	20.79	20.60	20.61
		25	0	2	20.88	20.72	20.60
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20000	20175	20350
10MHz	QPSK	1	0	0	22.80	22.64	22.57
			25	0	22.87	22.77	22.72
			49	0	22.67	22.80	22.60
		25	0	1	21.70	21.65	21.64
			13	1	21.73	21.64	21.63
			25	1	21.74	21.62	21.56
		50	0	1	21.79	21.66	21.64
	16QAM	1	0	1	21.83	22.19	21.70
			25	1	21.93	22.35	21.90
			49	1	21.67	22.33	21.70
		25	0	2	20.88	20.81	20.74
			13	2	20.90	20.80	20.75
			25	2	20.89	20.73	20.69
		50	0	2	20.86	20.76	20.69

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Average 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	22.69	22.52	22.50
			38	0	22.69	22.65	22.67
			74	0	22.49	22.43	22.49
		36	0	1	21.76	21.67	21.65
			18	1	21.76	21.68	21.62
			39	1	21.77	21.57	21.64
		75	0	1	21.76	21.71	21.62
	16QAM	1	0	1	22.18	22.14	21.66
			38	1	22.17	22.23	21.82
			74	1	22.03	22.09	21.62
		36	0	2	20.77	20.72	20.67
			18	2	20.78	20.74	20.67
			39	2	20.78	20.71	20.68
		75	0	2	20.77	20.73	20.66
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20050	20175	20300
20MHz	QPSK	1	0	0	22.51	22.42	22.38
			50	0	22.87	22.82	22.81
			99	0	22.37	22.40	22.39
		50	0	1	21.62	21.73	21.65
			25	1	21.64	21.69	21.63
			50	1	21.65	21.61	21.65
		100	0	1	21.68	21.72	21.63
	16QAM	1	0	1	22.14	21.70	21.60
			50	1	22.45	22.14	22.04
			99	1	21.97	21.72	21.56
		50	0	2	20.71	20.80	20.73
			25	2	20.73	20.79	20.70
			50	2	20.71	20.70	20.71
		100	0	2	20.75	20.79	20.68

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Average 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	23.12	22.98	22.89
			3	0	23.33	23.16	23.14
			5	0	23.13	22.97	22.89
		3	0	0	23.23	23.09	23.00
			2	0	23.24	23.10	23.00
			3	0	23.27	23.09	23.00
		6	0	1	22.21	22.03	21.94
	16QAM	1	0	1	22.16	22.02	22.00
			3	1	22.36	22.20	22.21
			5	1	22.18	22.05	22.03
		3	0	1	22.31	22.27	21.99
			2	1	22.34	22.26	21.98
			3	1	22.30	22.29	22.00
		6	0	2	21.17	21.09	21.03
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20415	20525	20635
3MHz	QPSK	1	0	0	23.20	23.04	23.02
			7	0	23.23	23.03	22.98
			14	0	23.16	23.00	22.98
		8	0	1	22.50	22.18	22.01
			4	1	22.31	22.18	22.01
			7	1	22.22	22.12	21.97
		15	0	1	22.61	22.05	21.98
	16QAM	1	0	1	22.25	22.71	22.15
			7	1	22.18	22.64	22.10
			14	1	22.13	22.61	22.15
		8	0	2	21.30	21.28	20.99
			4	2	21.28	21.28	21.01
			7	2	21.31	21.27	20.98
		15	0	2	21.28	21.14	21.00

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Average 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	23.39	23.08	22.96
			13	0	23.58	23.15	23.02
			24	0	23.34	22.96	22.92
		12	0	1	22.65	22.34	22.10
			6	1	22.62	22.37	22.02
			13	1	22.65	22.29	21.94
		25	0	1	22.63	22.40	21.97
	16QAM	1	0	1	22.22	21.97	22.20
			13	1	22.33	22.00	22.29
			24	1	22.26	21.87	22.22
		12	0	2	21.51	21.22	21.10
			6	2	21.45	21.41	21.11
			13	2	21.45	21.35	20.96
		25	0	2	21.45	21.25	21.01
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20450	20525	20600
10MHz	QPSK	1	0	0	23.71	23.24	23.10
			25	0	<b>23.86</b>	23.31	23.13
			49	0	23.55	23.18	23.00
		25	0	1	22.72	22.47	22.35
			13	1	22.70	22.43	22.30
			25	1	22.72	22.38	22.08
		50	0	1	22.70	22.62	22.14
	16QAM	1	0	1	22.49	22.83	22.29
			25	1	22.75	22.88	22.27
			49	1	22.43	22.61	22.28
		25	0	2	21.86	21.56	21.24
			13	2	21.83	21.48	21.26
			25	2	21.89	21.58	21.08
		50	0	2	21.76	21.43	21.15

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Average 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	21.97	21.98	21.96
			12	0	22.10	22.14	22.09
			24	0	21.98	21.94	21.95
		12	0	1	21.09	21.07	21.06
			6	1	21.06	21.12	21.08
			13	1	21.13	21.12	21.01
		25	0	1	21.08	21.06	21.02
	16QAM	1	0	1	21.09	20.91	21.24
			12	1	21.25	21.05	21.42
			24	1	21.08	20.90	21.24
		12	0	2	20.05	20.11	20.09
			6	2	20.04	20.06	20.10
			13	2	20.09	20.09	20.01
		25	0	2	20.18	20.12	20.02
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20800	21100	21400
10MHz	QPSK	1	0	0	22.01	22.08	21.99
			24	0	22.23	22.21	22.21
			49	0	22.07	21.99	21.96
		25	0	1	21.10	21.12	21.09
			12	1	21.10	21.12	21.10
			25	1	21.15	21.12	21.06
		50	0	1	21.08	21.11	21.01
	16QAM	1	0	1	21.05	21.69	21.18
			24	1	21.30	21.77	21.37
			49	1	21.10	21.61	21.16
		25	0	2	20.19	20.17	20.11
			12	2	20.19	20.18	20.15
			25	2	20.28	20.18	20.07
		50	0	2	20.15	20.12	20.04

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**Average 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	21.92	22.00	21.93
			37	0	22.12	22.05	22.03
			74	0	22.00	21.87	21.87
		37	0	1	21.10	21.12	21.07
			16	1	21.13	21.11	21.08
			35	1	21.11	21.13	21.08
		75	0	1	21.09	21.11	21.04
	16QAM	1	0	1	21.38	21.60	21.08
			37	1	21.56	21.64	21.20
			74	1	21.43	21.50	21.05
		37	0	2	20.11	20.10	20.07
			16	2	20.08	20.10	20.05
			35	2	20.10	20.11	20.06
		75	0	2	20.09	20.08	20.05
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20850	21100	21350
20MHz	QPSK	1	0	0	21.75	21.88	21.84
			49	0	22.25	<b>22.25</b>	22.18
			99	0	21.75	21.72	21.72
		50	0	1	21.04	21.04	21.06
			25	1	21.03	21.04	21.05
			49	1	21.09	21.03	20.99
		100	0	1	21.06	21.08	21.06
	16QAM	1	0	1	21.34	21.24	21.05
			49	1	21.86	21.53	21.37
			99	1	21.40	21.08	20.94
		50	0	2	20.06	20.03	20.07
			25	2	20.06	20.05	20.06
			49	2	20.11	20.05	19.99
		100	0	2	20.10	20.08	20.06

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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

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**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	$\leq 2$
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	10.61
		06	2437	10.36
		11	2462	10.13
802.11g	6	01	2412	10.56
		06	2437	10.17
		11	2462	9.96
802.11n(20)	6.5	01	2412	10.41
		06	2437	10.11
		11	2462	9.98
802.11n(40)	13.5	03	2422	13.06
		06	2437	11.64
		09	2452	11.37

# Bluetooth\_BR/EDR

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	1.04
	39	2441	0.75
	78	2480	0.19
$\pi$ /4-DQPSK	0	2402	0.34
	39	2441	0.10
	78	2480	-0.46
8-DPSK	0	2402	0.30
	39	2441	0.19
	78	2480	-0.41

# Bluetooth\_BLE

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK_1M	0	2402	-1.90
	19	2440	-1.22
	39	2480	-2.00
GFSK_2M	0	2402	-2.07
	19	2440	-1.15
	39	2480	-1.94

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### 5GHz WIFI

Mode	channel	Frequency	Avg. Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	10.49	10.34	10.29	10.10	10.00	9.82	9.82	9.68
	40	5200	9.95	9.90	9.79	9.77	9.70	9.58	9.42	9.34
	48	5240	9.69	9.58	9.47	9.35	9.26	9.24	9.06	8.91
	149	5745	8.93	8.74	8.60	8.58	8.45	8.40	8.40	8.29
	157	5785	8.45	8.44	8.33	8.22	8.07	8.03	7.97	7.86
	165	5825	9.00	8.96	8.84	8.82	8.79	8.78	8.62	8.60
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	36	5180	10.23	10.05	10.00	9.91	9.78	9.66	9.53	9.39
	40	5200	9.75	9.59	9.51	9.40	9.40	9.38	9.32	9.24
	48	5240	9.55	9.45	9.31	9.11	9.01	8.97	8.84	8.67
	149	5745	8.68	8.55	8.54	8.34	8.29	8.10	8.04	7.84
	157	5785	8.34	8.24	8.09	7.94	7.77	7.58	7.55	7.52
	165	5825	8.90	8.77	8.72	8.62	8.54	8.45	8.28	8.14
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (40)	38	5190	10.14	10.09	10.06	9.99	9.97	9.92	9.92	9.83
	46	5230	9.52	9.42	9.23	9.13	9.08	8.97	8.94	8.81
	151	5755	8.58	8.41	8.33	8.25	8.19	8.10	8.09	8.02
	159	5795	8.35	8.27	8.24	8.06	7.89	7.76	7.57	7.42
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	10.29	10.21	10.09	9.94	9.87	9.72	9.68	9.52
	40	5200	9.94	9.88	9.76	9.62	9.60	9.41	9.30	9.28
	48	5240	9.64	9.57	9.45	9.31	9.12	8.96	8.82	8.78
	149	5745	8.68	8.63	8.51	8.51	8.50	8.43	8.34	8.14
	157	5785	8.29	8.11	7.97	7.87	7.79	7.59	7.44	7.40
	165	5825	8.93	8.75	8.70	8.69	8.69	8.57	8.54	8.37
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	10.09	10.02	9.86	9.75	9.58	9.40	9.40	9.25
	46	5230	9.52	9.36	9.22	9.16	9.10	8.95	8.81	8.72
	151	5755	8.52	8.32	8.21	8.10	8.10	7.98	7.90	7.87
	159	5795	8.49	8.33	8.26	8.13	7.99	7.86	7.69	7.66
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (80)	42	5210	9.53	9.52	9.44	9.38	9.25	9.10	8.99	8.95
	155	5775	8.49	8.44	8.42	8.33	8.13	8.10	8.09	8.01

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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 5mm from the phantom.

#### 13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,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 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.
5. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.
  - (1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
  - (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, SAR is not required for that subsequent test configuration.
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

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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 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 (%): 57.3					
Product: VIU-500 model 700									
Test Mode: GSM850 with GMSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
SIM 1 Card									
Left Cheek	voice	128	824.2	-0.30	1.094	33.60	33.59	1.097	1.6
Left Cheek	voice	190	836.6	0.24	1.165	33.60	33.54	1.181	1.6
Left Cheek	voice	251	848.8	-0.14	1.145	33.60	33.47	1.180	1.6
Left Tilt	voice	190	836.6	-0.12	0.669	33.60	33.54	0.678	1.6
Right Cheek	voice	128	824.2	0.28	1.142	33.60	33.59	1.145	1.6
Right Cheek	voice	190	836.6	-0.00	1.205	33.60	33.54	1.222	1.6
Right Cheek	voice	251	848.8	-0.14	1.187	33.60	33.47	1.223	1.6
Right Tilt	voice	190	836.6	0.29	0.700	33.60	33.54	0.710	1.6
Body back	voice	190	836.6	-0.30	0.300	33.60	33.54	0.304	1.6
Body front	voice	128	824.2	0.22	0.986	33.60	33.59	0.988	1.6
Body front	voice	190	836.6	-0.13	0.976	33.60	33.54	0.990	1.6
Body front	voice	251	848.8	0.12	1.039	33.60	33.47	1.071	1.6
Body back	GPRS-4 slot	190	836.6	-0.30	0.522	30.90	30.81	0.533	1.6
Body front	GPRS-4 slot	128	824.2	-0.19	1.140	30.90	30.67	1.202	1.6
Body front	GPRS-4 slot	190	836.6	0.22	1.168	30.90	30.81	1.192	1.6
Body front	GPRS-4 slot	251	848.8	-0.20	1.194	30.90	30.78	1.227	1.6
Edge 1 (Top)	GPRS-4 slot	190	836.6	0.04	0.187	30.90	30.81	0.191	1.6
Edge 4(Left)	GPRS-4 slot	128	824.2	-0.09	0.772	30.90	30.67	0.814	1.6
Edge 4(Left)	GPRS-4 slot	190	836.6	-0.26	0.805	30.90	30.81	0.822	1.6
Edge 4(Left)	GPRS-4 slot	251	848.8	0.06	0.809	30.90	30.78	0.832	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 5mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 54.4					
Product: VIU-500 model 700									
Test Mode: PCS1900 with GMSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
SIM 1 Card									
Left Cheek	voice	661	1880.0	-0.12	0.428	31.20	31.13	0.435	1.6
Left Tilt	voice	661	1880.0	0.15	0.139	31.20	31.13	0.141	1.6
Right Cheek	voice	661	1880.0	-0.27	<b>0.708</b>	31.20	31.13	<b>0.720</b>	1.6
Right Tilt	voice	661	1880.0	-0.20	0.166	31.20	31.13	0.169	1.6
Body back	voice	661	1880.0	-0.09	0.043	31.20	31.13	0.044	1.6
Body front	voice	661	1880.0	0.20	<b>0.162</b>	31.20	31.13	<b>0.165</b>	1.6
Body back	GPRS-3 slot	661	1880	-0.11	0.056	29.70	29.32	0.061	1.6
Body front	GPRS-3 slot	661	1880.0	0.04	<b>0.289</b>	29.70	29.32	<b>0.315</b>	1.6
Edge 1 (Top)	GPRS-3 slot	661	1880.0	-0.28	0.051	29.70	29.32	0.056	1.6
Edge 4(Left)	GPRS-3 slot	661	1880.0	0.33	0.166	29.70	29.32	0.181	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 5mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 54.4					
Product: VIU-500 model 700									
Test Mode: WCDMA Band II with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	9262	1852.4	-0.07	0.911	23.30	23.24	0.924	1.6
Left Cheek	RMC 12.2kbps	9400	1880	-0.27	0.917	23.30	23.25	0.928	1.6
Left Cheek	RMC 12.2kbps	9538	1907.6	0.27	0.923	23.30	23.20	0.944	1.6
Left Tilt	RMC 12.2kbps	9400	1880	-0.08	0.301	23.30	23.25	0.304	1.6
Right Cheek	RMC 12.2kbps	9262	1852.4	-0.14	1.175	23.30	23.24	1.191	1.6
Right Cheek	RMC 12.2kbps	9400	1880	0.32	<b>1.178</b>	23.30	23.25	1.192	1.6
Right Cheek	RMC 12.2kbps	9538	1907.6	-0.12	1.172	23.30	23.20	<b>1.199</b>	1.6
Right Tilt	RMC 12.2kbps	9400	1880	0.28	0.330	23.30	23.25	0.334	1.6
Body back	RMC 12.2kbps	9400	1880	-0.23	0.066	23.30	23.25	0.067	1.6
Body front	RMC 12.2kbps	9400	1880	-0.23	<b>0.372</b>	23.30	23.25	<b>0.376</b>	1.6
Edge 1 (Top)	RMC 12.2kbps	9400	1880	-0.16	0.063	23.30	23.25	0.064	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	0.15	0.258	23.30	23.25	0.261	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 5mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 57.3					
Product: VIU-500 model 700									
Test Mode: WCDMA Band V with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	RMC 12.2kbps	4132	826.4	-0.04	1.155	23.30	23.21	1.179	1.6
Left Cheek	RMC 12.2kbps	4183	836.4	0.03	1.179	23.30	23.07	1.243	1.6
Left Cheek	RMC 12.2kbps	4233	846.6	-0.11	1.179	23.30	23.14	1.223	1.6
Left Tilt	RMC 12.2kbps	4183	836.4	-0.08	0.731	23.30	23.07	0.771	1.6
Right Cheek	RMC 12.2kbps	4132	826.4	0.23	1.194	23.30	23.21	1.219	1.6
Right Cheek	RMC 12.2kbps	4183	836.4	-0.23	1.196	23.30	23.07	1.261	1.6
Right Cheek	RMC 12.2kbps	4233	846.6	0.28	1.209	23.30	23.14	1.254	1.6
Right Tilt	RMC 12.2kbps	4183	836.4	-0.15	0.690	23.30	23.07	0.728	1.6
Body back	RMC 12.2kbps	4183	836.4	0.25	0.277	23.30	23.07	0.292	1.6
Body front	RMC 12.2kbps	4183	836.4	0.09	0.658	23.30	23.07	0.694	1.6
Edge 1 (Top)	RMC 12.2kbps	4183	836.4	-0.04	0.107	23.30	23.07	0.113	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.4	0.12	0.340	23.30	23.07	0.358	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 5mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%):54.4						
Product: VIU-500 model 700												
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	18700	1860	-0.29	0.760	23.00	22.43	0.867	1.6
		Left Cheek	1	0	18900	1880	0.14	0.807	23.00	22.56	0.893	1.6
		Left Cheek	1	0	19100	1900	-0.04	0.810	23.00	22.48	0.913	1.6
		Left Tilt	1	0	18900	1880	0.12	0.402	23.00	22.56	0.445	1.6
		Right Cheek	1	0	18700	1860	-0.00	1.071	23.00	22.43	<b>1.221</b>	1.6
		Right Cheek	1	0	18900	1880	-0.14	1.070	23.00	22.56	1.184	1.6
		Right Cheek	1	0	19100	1900	0.04	<b>1.076</b>	23.00	22.48	1.213	1.6
		Right Tilt	1	0	18900	1880	-0.32	0.479	23.00	22.56	0.530	1.6
		Body back	1	0	18900	1880	-0.26	0.081	23.00	22.56	0.090	1.6
		Body front	1	0	18900	1880	0.32	<b>0.404</b>	23.00	22.56	<b>0.447</b>	1.6
		Edge 1 (Top)	1	0	18900	1880	-0.24	0.054	23.00	22.56	0.060	1.6
		Edge 4(Left)	1	0	18900	1880	0.06	0.254	23.00	22.56	0.281	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 5mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 51.9							
Product: VIU-500 model 700												
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	20050	1720	-0.15	1.105	22.60	22.51	1.128	1.6
		Left Cheek	1	0	20175	1732.5	-0.16	0.990	22.60	22.42	1.032	1.6
		Left Cheek	1	0	20300	1745	0.04	<b>1.133</b>	22.60	22.38	<b>1.192</b>	1.6
		Left Tilt	1	0	20175	1732.5	-0.04	0.528	22.60	22.42	0.550	1.6
		Right Cheek	1	0	20050	1720	-0.10	1.035	22.60	22.51	1.057	1.6
		Right Cheek	1	0	20175	1732.5	0.24	1.037	22.60	22.42	1.081	1.6
		Right Cheek	1	0	20300	1745	-0.29	1.094	22.60	22.38	1.151	1.6
		Right Tilt	1	0	20175	1732.5	0.23	0.564	22.60	22.42	0.588	1.6
		Body back	1	0	20175	1732.5	-0.11	0.077	22.60	22.42	0.080	1.6
		Body front	1	0	20175	1732.5	-0.20	<b>0.391</b>	22.60	22.42	<b>0.408</b>	1.6
		Edge 1 (Top)	1	0	20175	1732.5	0.13	0.087	22.60	22.42	0.091	1.6
		Edge 4(Left)	1	0	20175	1732.5	-0.10	0.220	22.60	22.42	0.229	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 5mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 57.3							
Product: VIU-500 model 700												
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 Allocati on	UL RB START								
10	QPSK	Left Cheek	1	0	20450	829	-0.19	1.041	23.90	23.71	1.088	1.6
		Left Cheek	1	0	20525	836.5	-0.27	1.041	23.30	23.24	1.055	1.6
		Left Cheek	1	0	20600	844	0.14	1.054	23.20	23.10	1.079	1.6
		Left Tilt	1	0	20525	836.5	-0.06	0.594	23.30	23.24	0.602	1.6
		Right Cheek	1	0	20450	829	0.24	1.174	23.90	23.71	1.227	1.6
		Right Cheek	1	0	20525	836.5	-0.25	1.199	23.30	23.24	1.216	1.6
		Right Cheek	1	0	20600	844	-0.26	1.201	23.20	23.10	1.229	1.6
		Right Tilt	1	0	20525	836.5	0.01	0.774	23.30	23.24	0.785	1.6
		Body back	1	0	20525	836.5	-0.31	0.297	23.30	23.24	0.301	1.6
		Body front	1	0	20450	829	0.16	0.799	23.90	23.71	0.835	1.6
		Body front	1	0	20525	836.5	-0.23	0.801	23.30	23.24	0.812	1.6
		Body front	1	0	20600	844	-0.21	0.808	23.20	23.10	0.827	1.6
		Edge 1 (Top)	1	0	20525	836.5	-0.19	0.100	23.30	23.24	0.101	1.6
		Edge 4(Left)	1	0	20525	836.5	0.05	0.362	23.30	23.24	0.367	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 5mm of all above table.

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 53.3						
Product: VIU-500 model 700												
Test Mode: LTE Band 7												
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	20850	2510	-0.31	1.002	21.90	21.75	1.037	1.6
		Left Cheek	1	0	21100	2535	0.14	1.051	21.90	21.88	1.056	1.6
		Left Cheek	1	0	21350	2560	-0.30	1.074	21.90	21.84	1.089	1.6
		Left Tilt	1	0	21100	2535	-0.33	0.774	21.90	21.88	0.778	1.6
		Right Cheek	1	0	20850	2510	0.10	1.177	21.90	21.75	<b>1.218</b>	1.6
		Right Cheek	1	0	21100	2535	-0.31	1.167	21.90	21.88	1.172	1.6
		Right Cheek	1	0	21350	2560	0.22	<b>1.198</b>	21.90	21.84	1.215	1.6
		Right Tilt	1	0	20850	2510	-0.01	0.773	21.90	21.75	0.800	1.6
		Right Tilt	1	0	21100	2535	-0.05	0.808	21.90	21.88	0.812	1.6
		Right Tilt	1	0	21350	2560	0.27	0.830	21.90	21.84	0.842	1.6
		Body back	1	0	21100	2535	-0.24	0.144	21.90	21.88	0.145	1.6
		Body front	1	0	20850	2510	-0.32	1.157	21.90	21.75	1.198	1.6
		Body front	1	0	21100	2535	0.16	<b>1.204</b>	21.90	21.88	<b>1.210</b>	1.6
		Body front	1	0	21350	2560	-0.08	1.173	21.90	21.84	1.189	1.6
		Edge 1 (Top)	1	0	21100	2535	-0.14	0.195	21.90	21.88	0.196	1.6
		Edge 4(Left)	1	0	21100	2535	0.18	0.454	21.90	21.88	0.456	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 5mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 56.2					
Product: VIU-500 model 700									
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	-0.28	<b>0.147</b>	10.70	10.36	<b>0.159</b>	1.6
Left Tilt	DTS	6	2437	-0.31	0.099	10.70	10.36	0.107	1.6
Right Cheek	DTS	6	2437	-0.32	0.109	10.70	10.36	0.118	1.6
Right Tilt	DTS	6	2437	0.04	0.093	10.70	10.36	0.101	1.6
Body back	DTS	6	2437	-0.17	0.082	10.70	10.36	0.089	1.6
Body front	DTS	6	2437	-0.03	0.081	10.70	10.36	0.088	1.6
Edge 2(Right)	DTS	6	2437	0.26	<b>0.151</b>	10.70	10.36	<b>0.163</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 5mm of all above table.

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SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 48.6			
Product: VIU-500 model 700								
Test Mode: 5.2GHz WIFI-802.11a								
Position	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	40	5200	-0.21	<b>0.282</b>	10.50	9.95	<b>0.320</b>	1.6
Left Tilt	40	5200	0.23	0.192	10.50	9.95	0.218	1.6
Right Cheek	40	5200	-0.17	0.278	10.50	9.95	0.316	1.6
Right Tilt	40	5200	-0.25	0.215	10.50	9.95	0.244	1.6
Body back	40	5200	-0.30	0.361	10.50	9.95	0.410	1.6
Body front	40	5200	-0.17	0.319	10.50	9.95	0.362	1.6
Edge 2(Right)	40	5200	0.23	<b>0.558</b>	10.50	9.95	<b>0.633</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 5mm of all above table

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SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 45.2			
Product: VIU-500 model 700								
Test Mode: 5.8GHz WIFI-802.11a								
Position	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	157	5785	-0.28	0.322	8.50	8.45	0.326	1.6
Left Tilt	157	5785	0.01	0.271	8.50	8.45	0.274	1.6
Right Cheek	157	5785	-0.02	<b>0.328</b>	8.50	8.45	<b>0.332</b>	1.6
Right Tilt	157	5785	-0.16	0.305	8.50	8.45	0.309	1.6
Body back	157	5785	0.23	0.399	8.50	8.45	0.404	1.6
Body front	157	5785	-0.04	0.317	8.50	8.45	0.321	1.6
Edge 2(Right)	157	5785	0.10	<b>0.576</b>	8.50	8.45	<b>0.583</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 5mm of all above table

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Repeated SAR											
Product: VIU-500 model 700											
Test Mode: GSM850& WCDMA Band II & WCDMA Band V & LTE Band 2 & LTE Band 4 & LTE Band 5 & LTE Band 7											
Position	Mode		Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
Right Cheek	voice		190	836.6	0.13	1.179	--	--	--	--	1.6
Right Cheek	RMC 12.2kbps		9400	1880	0.25	1.181	--	--	--	--	1.6
Right Cheek	RMC 12.2kbps		4233	846.6	0.07	1.205	--	--	--	--	1.6
Position	Mode		Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
	UL RB Allocation	UL RB START									
Right Cheek	1	0	19100	1900	0.27	1.005	--	--	--	--	1.6
Left Cheek	1	0	20300	1745	0.05	1.119	--	--	--	--	1.6
Right Cheek	1	0	20600	844	0.26	1.195	--	--	--	--	1.6
Body front	1	0	21100	2535	0.09	1.163	--	--	--	--	1.6

The second repeated SAR judge reference									
Product: VIU-500 model 700									
Band	Position	Mode		Ch.	Fr. (MHz)	Original SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
GSM850	Right Cheek	voice		190	836.6	1.205	1.179	1.022	<1.2
WCDMA Band II	Right Cheek	RMC 12.2kbps		9400	1880	1.178	1.181	0.997	<1.2
WCDMA Band V	Right Cheek	RMC 12.2kbps		4233	846.6	1.209	1.205	1.003	<1.2
Band	Position	Mode		Ch.	Fr. (MHz)	Original SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
		UL RB Allocation	UL RB START						
LTE Band 2	Right Cheek	1	0	19100	1900	1.076	1.005	1.071	<1.2
LTE Band 4	Left Cheek	1	0	20300	1745	1.133	1.119	1.013	<1.2
LTE Band 5	Right Cheek	1	0	20600	844	1.201	1.195	1.005	<1.2
LTE Band 7	Body front	1	0	21100	2535	1.204	1.163	1.035	<1.2

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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/ 5GHz (data)	Yes	Yes	-
2	GSM(voice)+ Bluetooth(data)	Yes	Yes	-
3	GSM (Data) + WLAN 2.4GHz/ 5GHz (data)	-	Yes	Yes
4	GSM (Data) + Bluetooth(data)	-	Yes	Yes
5	WCDMA+ WLAN 2.4GHz/ 5GHz (data)	Yes	Yes	Yes
6	WCDMA+ Bluetooth(data)	Yes	Yes	Yes
7	LTE + WLAN 2.4GHz/ 5GHz (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 D01, BT SAR is excluded as below table.
4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for head SAR and 5mm for body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:  
For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:  

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR<sup>30</sup>, where
  - f(GHz) is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation<sup>31</sup>
  - The result is rounded to one decimal place for comparison
  - The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below
The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.
6. If the test separation distance is  $< 5$ mm, 5mm is used for excluded SAR calculation.
7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
  - (1) Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
  - (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
  - (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
  - (4) When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \text{ W/kg for test separation distances } \leq 50 \text{ mm};$$
where  $x = 7.5$  for 1-g SAR, and  $x = 18.75$  for 10-g SAR.

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8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by  $(SAR1 + SAR2)1.5/R_i$ , 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.

Estimated SAR		Max Power including Tune-up Tolerance		Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW		
BT	Head	1.5	1.413	0	0.058
	Body	1.5	1.413	5	0.058

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	2.4GHz Wi-Fi Band	Bluetooth		
Head (voice)	Left Touch	1.181	0.159		1.340	No
	Left Tilt	0.678	0.107		0.785	No
	Right Touch	1.223	0.118		1.341	No
	Right Tilt	0.710	0.101		0.811	No
Head (voice)	Left Touch	1.181		0.058	1.239	No
	Left Tilt	0.678		0.058	0.736	No
	Right Touch	1.223		0.058	1.281	No
	Right Tilt	0.710		0.058	0.768	No
Body-worn (voice)	Rear	0.304	0.089		0.393	No
		0.304		0.058	0.362	No
	Front	1.071	0.088		1.159	No
		1.071		0.058	1.129	No
Body-worn (Data)	Rear	0.533		0.058	0.591	No
		0.533	0.089		0.622	No
	Front	1.227		0.058	1.285	No
		1.227	0.088		1.315	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.2GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head (voice)	Left Touch	1.181	0.320		1.501	No
	Left Tilt	0.678	0.218		0.896	No
	Right Touch	1.223	0.316		1.539	No
	Right Tilt	0.710	0.244		0.954	No
Head (voice)	Left Touch	1.181		0.326	1.507	No
	Left Tilt	0.678		0.274	0.952	No
	Right Touch	1.223		0.332	1.555	No
	Right Tilt	0.710		0.309	1.019	No
Body-worn (voice)	Rear	0.304	0.410		0.714	No
		0.304		0.404	0.708	No
	Front	1.071	0.362		1.433	No
		1.071		0.321	1.392	No
Body-worn (Data)	Rear	0.533		0.404	0.937	No
		0.533	0.410		0.943	No
	Front	1.227		0.321	1.548	No
		1.227	0.362		1.589	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			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 1900	2.4GHz Wi-Fi Band	Bluetooth		
Head (voice)	Left Touch	0.435	0.159		0.594	No
	Left Tilt	0.141	0.107		0.248	No
	Right Touch	0.720	0.118		0.838	No
	Right Tilt	0.169	0.101		0.270	No
Head (voice)	Left Touch	0.435		0.058	0.493	No
	Left Tilt	0.141		0.058	0.199	No
	Right Touch	0.720		0.058	0.778	No
	Right Tilt	0.169		0.058	0.227	No
Body-worn (voice)	Rear	0.044	0.089		0.133	No
		0.044		0.058	0.102	No
	Front	0.165	0.088		0.253	No
		0.165		0.058	0.223	No
Body-worn (Data)	Rear	0.061		0.058	0.119	No
		0.061	0.089		0.150	No
	Front	0.315		0.058	0.373	No
		0.315	0.088		0.403	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 1900	5.2GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head (voice)	Left Touch	0.435	0.320		0.755	No
	Left Tilt	0.141	0.218		0.359	No
	Right Touch	0.720	0.316		1.036	No
	Right Tilt	0.169	0.244		0.413	No
Head (voice)	Left Touch	0.435		0.326	0.761	No
	Left Tilt	0.141		0.274	0.415	No
	Right Touch	0.720		0.332	1.052	No
	Right Tilt	0.169		0.309	0.478	No
Body-worn (voice)	Rear	0.044	0.410		0.454	No
		0.044		0.404	0.448	No
	Front	0.165	0.362		0.527	No
		0.165		0.321	0.486	No
Body-worn (Data)	Rear	0.061		0.404	0.465	No
		0.061	0.410		0.471	No
	Front	0.315		0.321	0.636	No
		0.315	0.362		0.677	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			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	2.4GHz Wi-Fi Band	Bluetooth		
Head	Left Touch	0.944	0.159		1.103	No
	Left Tilt	0.304	0.107		0.411	No
	Right Touch	1.199	0.118		1.317	No
	Right Tilt	0.334	0.101		0.435	No
Head	Left Touch	0.944		0.058	1.002	No
	Left Tilt	0.304		0.058	0.362	No
	Right Touch	1.199		0.058	1.257	No
	Right Tilt	0.334		0.058	0.392	No
Body-worn	Rear	0.067	0.089		0.156	No
	Front	0.376	0.088		0.464	No
	Rear	0.067		0.058	0.125	No
	Front	0.376		0.058	0.434	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.2GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head	Left Touch	0.944	0.320		1.264	No
	Left Tilt	0.304	0.218		0.522	No
	Right Touch	1.199	0.316		1.515	No
	Right Tilt	0.334	0.244		0.578	No
Head	Left Touch	0.944		0.326	1.270	No
	Left Tilt	0.304		0.274	0.578	No
	Right Touch	1.199		0.332	1.531	No
	Right Tilt	0.334		0.309	0.643	No
Body-worn	Rear	0.067	0.410		0.477	No
	Front	0.376	0.362		0.738	No
	Rear	0.067		0.404	0.471	No
	Front	0.376		0.321	0.697	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			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	2.4GHz Wi-Fi Band	Bluetooth		
Head	Left Touch	1.243	0.159		1.402	No
	Left Tilt	0.771	0.107		0.878	No
	Right Touch	1.261	0.118		1.379	No
	Right Tilt	0.728	0.101		0.829	No
Head	Left Touch	1.243		0.058	1.301	No
	Left Tilt	0.771		0.058	0.829	No
	Right Touch	1.261		0.058	1.319	No
	Right Tilt	0.728		0.058	0.786	No
Body-worn	Rear	0.292	0.089		0.381	No
	Front	0.694	0.088		0.782	No
	Rear	0.292		0.058	0.350	No
	Front	0.694		0.058	0.752	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.2GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head	Left Touch	1.243	0.320		1.563	No
	Left Tilt	0.771	0.218		0.989	No
	Right Touch	1.261	0.316		1.577	No
	Right Tilt	0.728	0.244		0.972	No
Head	Left Touch	1.243		0.326	1.569	No
	Left Tilt	0.771		0.274	1.045	No
	Right Touch	1.261		0.332	<b>1.593</b>	No
	Right Tilt	0.728		0.309	1.037	No
Body-worn	Rear	0.292	0.410		0.702	No
	Front	0.694	0.362		1.056	No
	Rear	0.292		0.404	0.696	No
	Front	0.694		0.321	1.015	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			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	2.4GHz Wi-Fi Band	Bluetooth		
Head	Left Touch	0.913	0.159		1.072	No
	Left Tilt	0.445	0.107		0.552	No
	Right Touch	1.221	0.118		1.339	No
	Right Tilt	0.530	0.101		0.631	No
Head	Left Touch	0.913		0.058	0.971	No
	Left Tilt	0.445		0.058	0.503	No
	Right Touch	1.221		0.058	1.279	No
	Right Tilt	0.530		0.058	0.588	No
Body-worn	Rear	0.090	0.089		0.179	No
	Front	0.447	0.088		0.535	No
	Rear	0.090		0.058	0.148	No
	Front	0.447		0.058	0.505	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.2GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head	Left Touch	0.913	0.320		1.233	No
	Left Tilt	0.445	0.218		0.663	No
	Right Touch	1.221	0.316		1.537	No
	Right Tilt	0.530	0.244		0.774	No
Head	Left Touch	0.913		0.326	1.239	No
	Left Tilt	0.445		0.274	0.719	No
	Right Touch	1.221		0.332	1.553	No
	Right Tilt	0.530		0.309	0.839	No
Body-worn	Rear	0.090	0.410		0.500	No
	Front	0.447	0.362		0.809	No
	Rear	0.090		0.404	0.494	No
	Front	0.447		0.321	0.768	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			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	2.4GHz Wi-Fi Band	Bluetooth		
Head	Left Touch	1.192	0.159		1.351	No
	Left Tilt	0.550	0.107		0.657	No
	Right Touch	1.151	0.118		1.269	No
	Right Tilt	0.588	0.101		0.689	No
Head	Left Touch	1.192		0.058	1.250	No
	Left Tilt	0.550		0.058	0.608	No
	Right Touch	1.151		0.058	1.209	No
	Right Tilt	0.588		0.058	0.646	No
Body-worn	Rear	0.080	0.089		0.169	No
	Front	0.408	0.088		0.496	No
	Rear	0.080		0.058	0.138	No
	Front	0.408		0.058	0.466	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.2GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head	Left Touch	1.192	0.320		1.512	No
	Left Tilt	0.550	0.218		0.768	No
	Right Touch	1.151	0.316		1.467	No
	Right Tilt	0.588	0.244		0.832	No
Head	Left Touch	1.192		0.326	1.518	No
	Left Tilt	0.550		0.274	0.824	No
	Right Touch	1.151		0.332	1.483	No
	Right Tilt	0.588		0.309	0.897	No
Body-worn	Rear	0.080	0.410		0.490	No
	Front	0.408	0.362		0.770	No
	Rear	0.080		0.404	0.484	No
	Front	0.408		0.321	0.729	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			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	2.4GHz Wi-Fi Band	Bluetooth		
Head	Left Touch	1.079	0.159		1.238	No
	Left Tilt	0.602	0.107		0.709	No
	Right Touch	1.229	0.118		1.347	No
	Right Tilt	0.785	0.101		0.886	No
Head	Left Touch	1.079		0.058	1.137	No
	Left Tilt	0.602		0.058	0.660	No
	Right Touch	1.229		0.058	1.287	No
	Right Tilt	0.785		0.058	0.843	No
Body-worn	Rear	0.301	0.089		0.390	No
	Front	0.835	0.088		0.923	No
	Rear	0.301		0.058	0.359	No
	Front	0.835		0.058	0.893	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.2GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head	Left Touch	1.079	0.320		1.399	No
	Left Tilt	0.602	0.218		0.820	No
	Right Touch	1.229	0.316		1.545	No
	Right Tilt	0.785	0.244		1.029	No
Head	Left Touch	1.079		0.326	1.405	No
	Left Tilt	0.602		0.274	0.876	No
	Right Touch	1.229		0.332	1.561	No
	Right Tilt	0.785		0.309	1.094	No
Body-worn	Rear	0.301	0.410		0.711	No
	Front	0.835	0.362		1.197	No
	Rear	0.301		0.404	0.705	No
	Front	0.835		0.321	1.156	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			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	2.4GHz Wi-Fi Band	Bluetooth		
Head	Left Touch	1.089	0.159		1.248	No
	Left Tilt	0.778	0.107		0.885	No
	Right Touch	1.218	0.118		1.336	No
	Right Tilt	0.842	0.101		0.943	No
Head	Left Touch	1.089		0.058	1.147	No
	Left Tilt	0.778		0.058	0.836	No
	Right Touch	1.218		0.058	1.276	No
	Right Tilt	0.842		0.058	0.900	No
Body-worn	Rear	0.145	0.089		0.234	No
	Front	1.210	0.088		1.298	No
	Rear	0.145		0.058	0.203	No
	Front	1.210		0.058	1.268	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	5.2GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head	Left Touch	1.089	0.320		1.409	No
	Left Tilt	0.778	0.218		0.996	No
	Right Touch	1.218	0.316		1.534	No
	Right Tilt	0.842	0.244		1.086	No
Head	Left Touch	1.089		0.326	1.415	No
	Left Tilt	0.778		0.274	1.052	No
	Right Touch	1.218		0.332	1.550	No
	Right Tilt	0.842		0.309	1.151	No
Body-worn	Rear	0.145	0.410		0.555	No
	Front	1.210	0.362		1.572	No
	Rear	0.145		0.404	0.549	No
	Front	1.210		0.321	1.531	No

**Note:**

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

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## APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab

Date: Apr. 07, 2025

System Check Head 835 MHz

DUT: Dipole 835 MHz Type: SID 835

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.89

Frequency: 835 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 42.59$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section; Input Power=18dBm

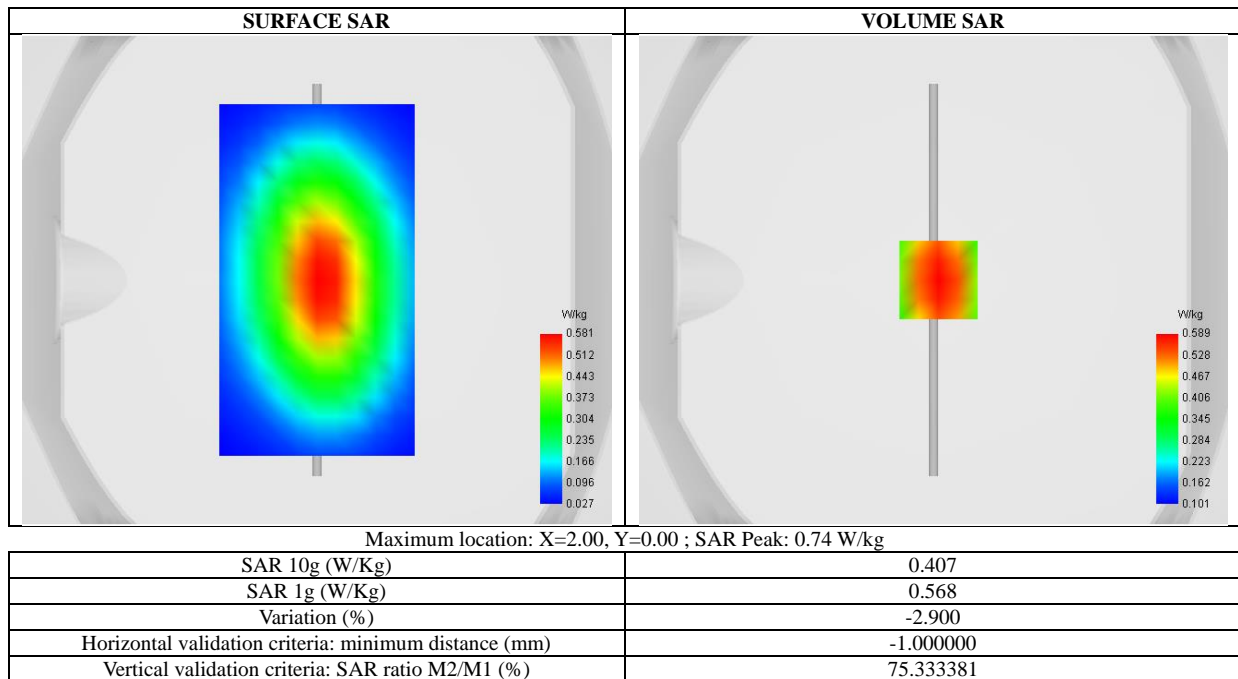
Ambient temperature (°C):20.8, Liquid temperature (°C): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

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



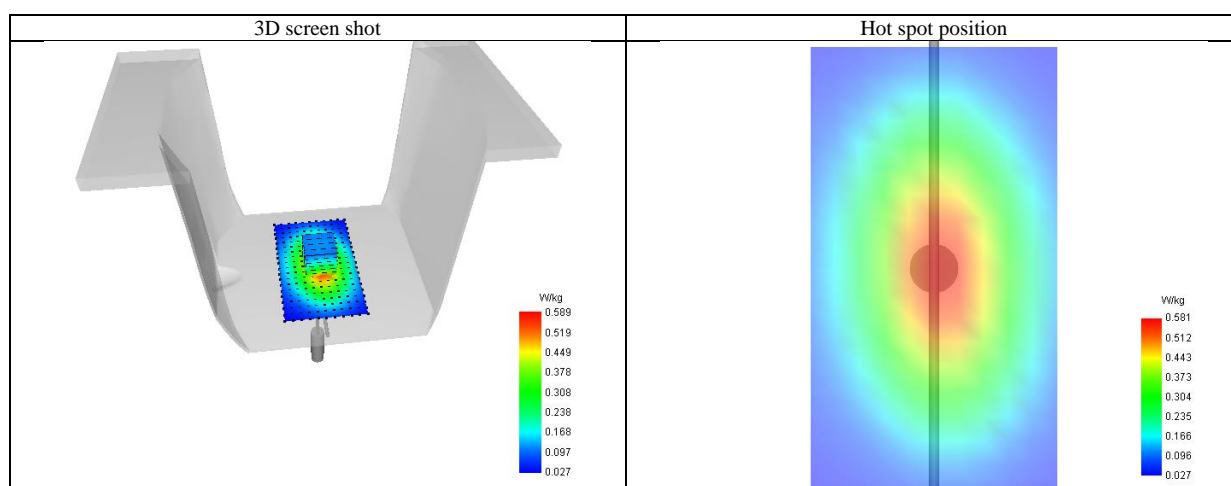
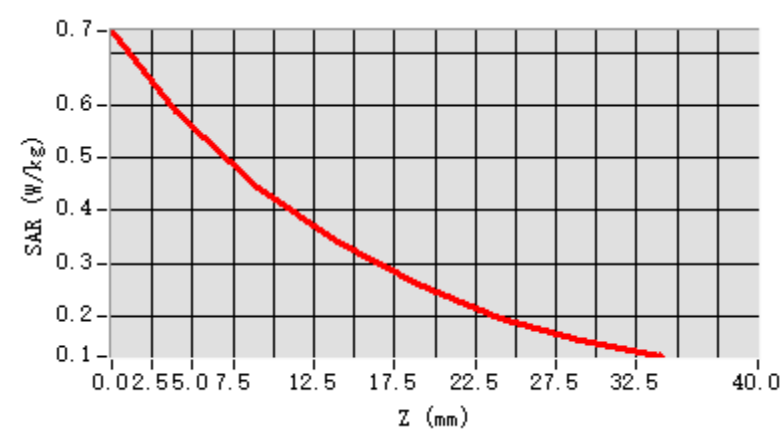
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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.741	0.589	0.444	0.341	0.258	0.196	0.152



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

**Test Laboratory: AGC Lab**  
**System Check Head 835 MHz**  
**DUT: Dipole 835 MHz    Type: SID 835**

**Date: Apr. 07, 2025**

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.89  
Frequency: 835 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma=0.93 \text{ mho/m}$ ;  $\epsilon_r=42.59$ ;  $\rho= 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm

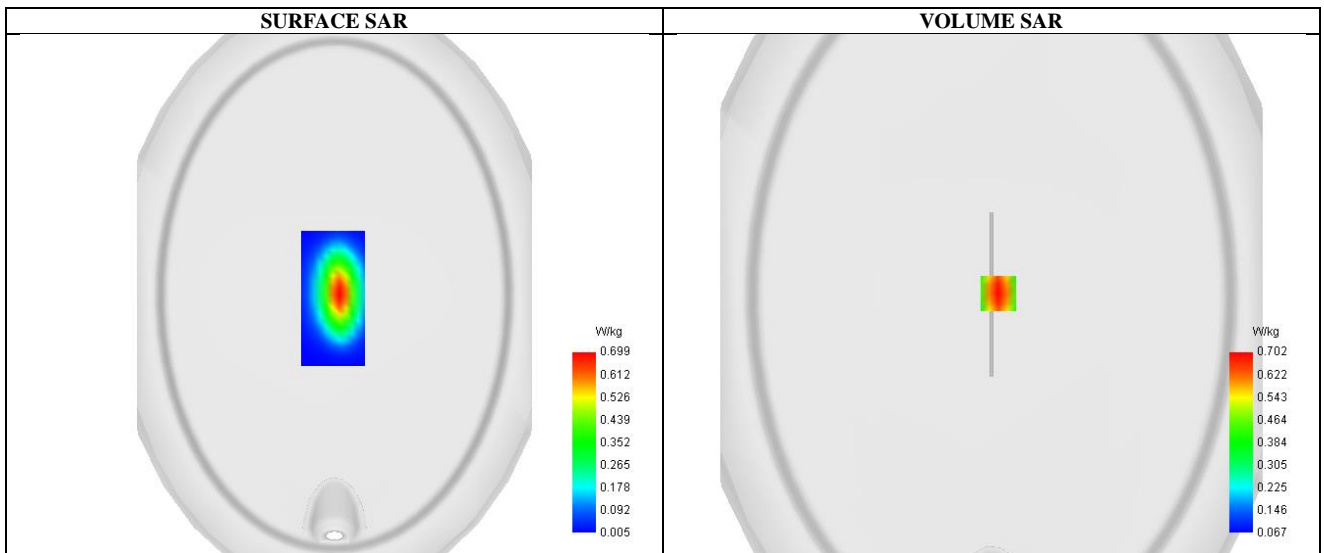
Ambient temperature (°C):20.8, Liquid temperature (°C): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**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

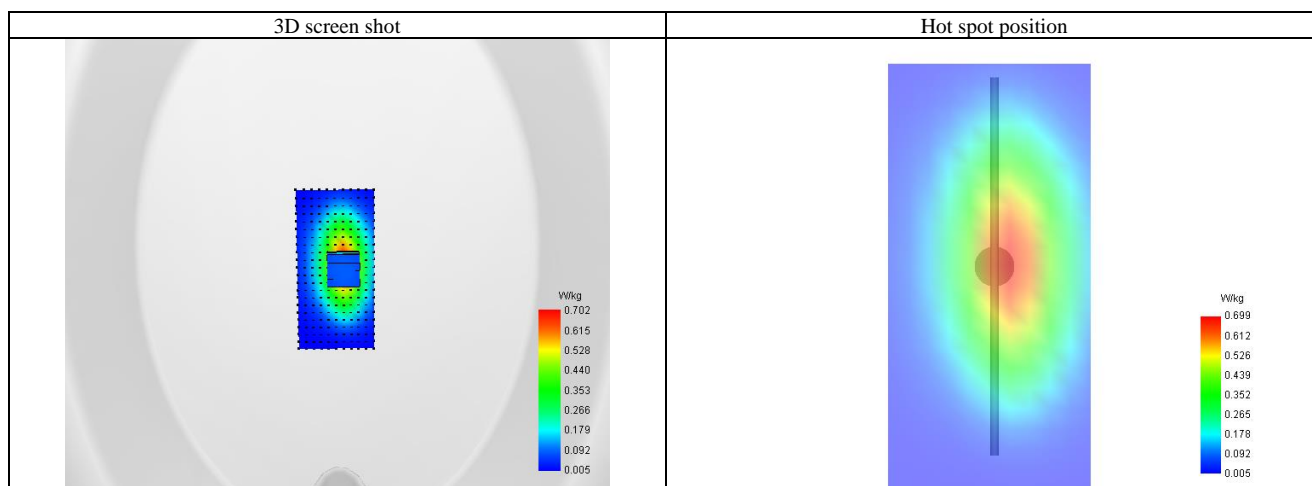
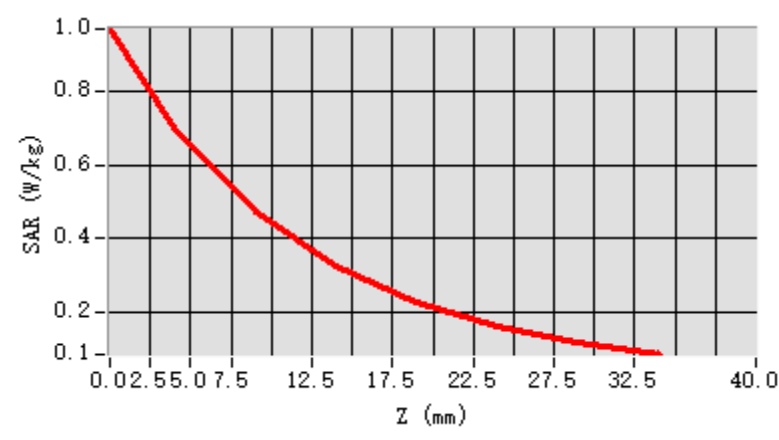


SAR 10g (W/Kg)	0.413
SAR 1g (W/Kg)	0.650
Variation (%)	-1.700
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	67.028299

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.947	0.682	0.450	0.304	0.207	0.142	0.100



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**Test Laboratory: AGC Lab**  
**System Check Head 1750MHz**  
**DUT: Dipole 1800 MHz; Type: SID 1800**

**Date: Apr. 06, 2025**

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=2.28  
Frequency: 1750 MHz; Medium parameters used:  $f = 1750\text{MHz}$ ;  $\sigma = 1.40\text{ mho/m}$ ;  $\epsilon_r = 39.22$ ;  $\rho = 1000\text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.1

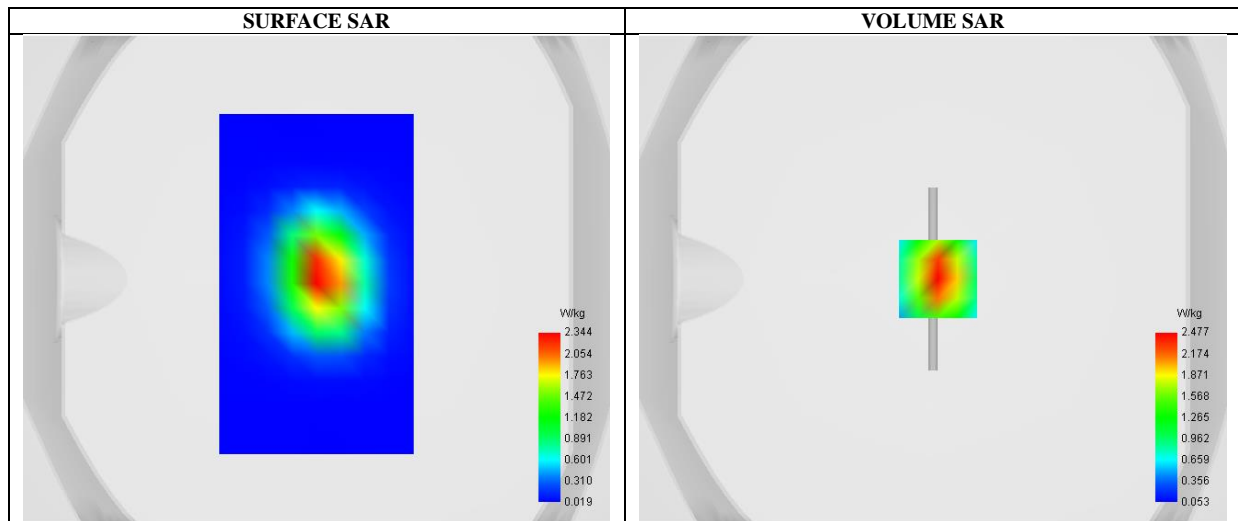
SATIMO Configuration:

Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

**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=2.00, Y=0.00 ; SAR Peak: 4.03 W/kg

SAR 10g (W/Kg)	1.194
SAR 1g (W/Kg)	2.342
Variation (%)	-1.700
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.449285

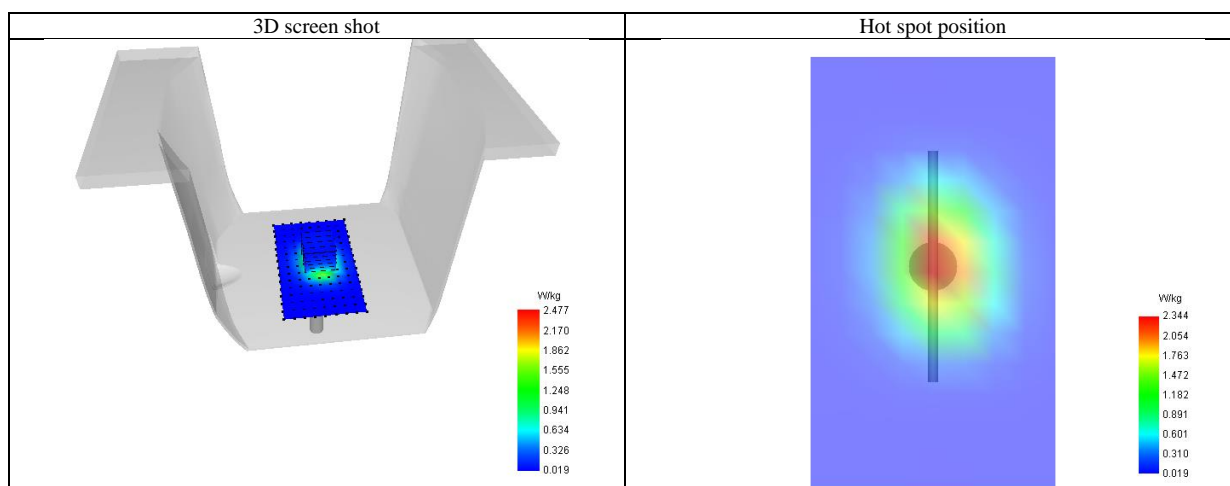
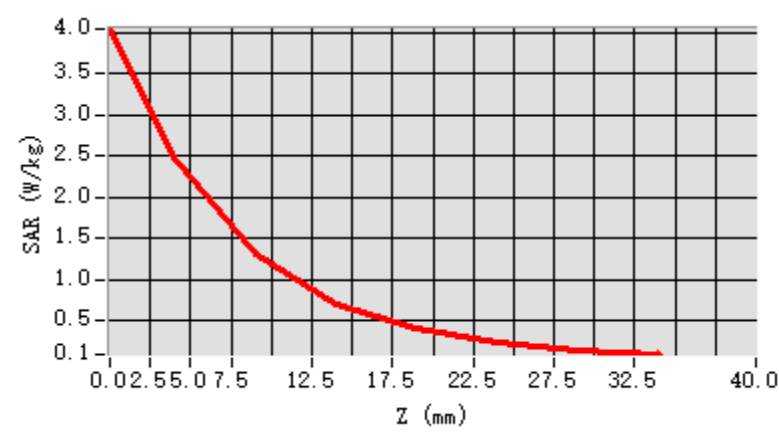
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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.061	2.495	1.303	0.728	0.413	0.247	0.155



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**Test Laboratory: AGC Lab**  
**System Check Head 1750MHz**  
**DUT: Dipole 1800 MHz; Type: SID 1800**

**Date: Apr. 06, 2025**

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=2.28  
Frequency: 1750 MHz; Medium parameters used:  $f = 1750\text{MHz}$ ;  $\sigma = 1.40\text{ mho/m}$ ;  $\epsilon_r = 39.22$ ;  $\rho = 1000\text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm

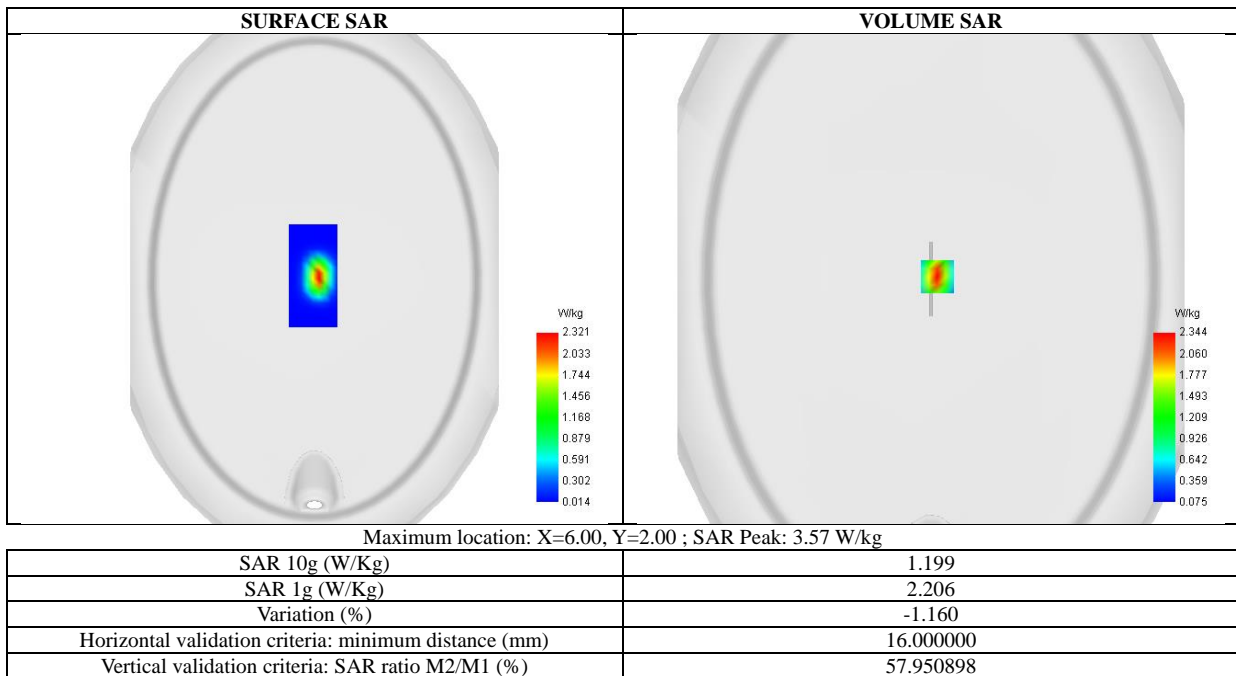
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**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

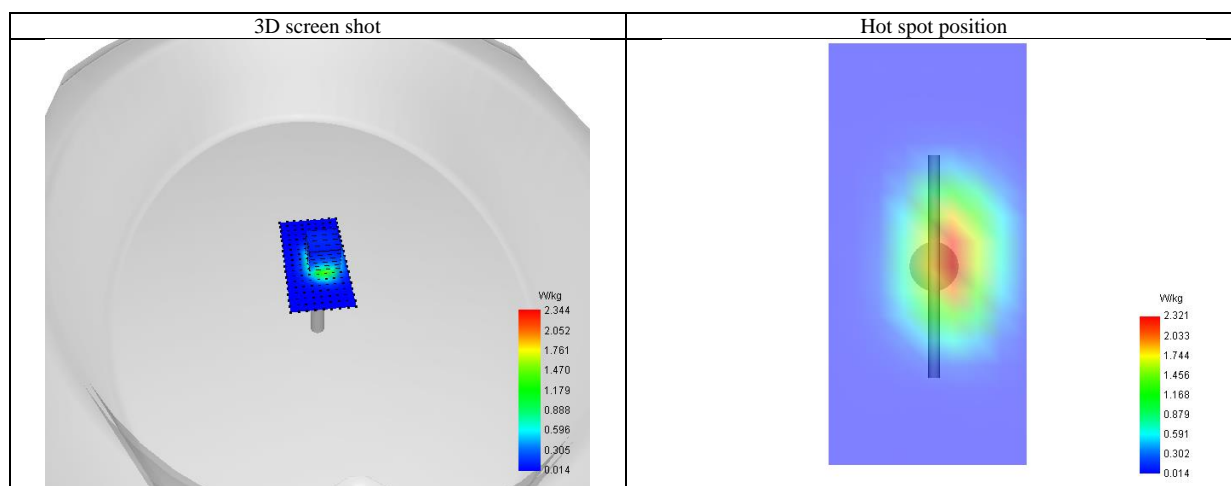
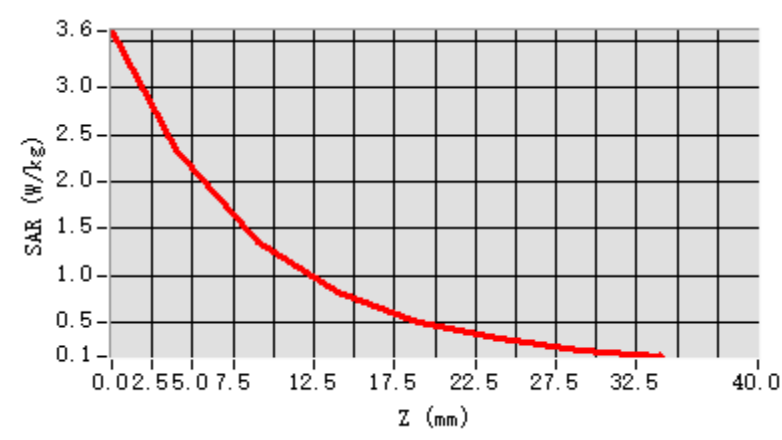


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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.622	2.368	1.370	0.843	0.538	0.357	0.230



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**Test Laboratory: AGC Lab**  
**System Check Head 1900MHz**  
**DUT: Dipole 1900 MHz; Type: SID 1900**

**Date: Apr. 05, 2025**

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.08  
Frequency: 1900 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.52$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):21.8, Liquid temperature (°C): 21.4

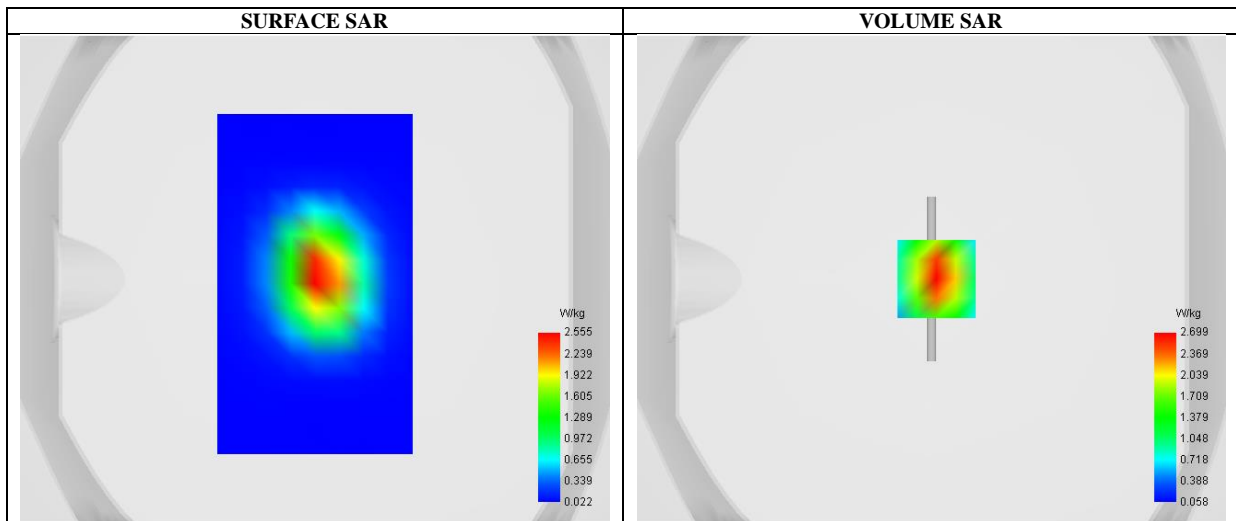
SATIMO Configuration:

Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

**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: 4.39 W/kg

SAR 10g (W/Kg)	1.298
SAR 1g (W/Kg)	2.549
Variation (%)	-1.610
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.497833

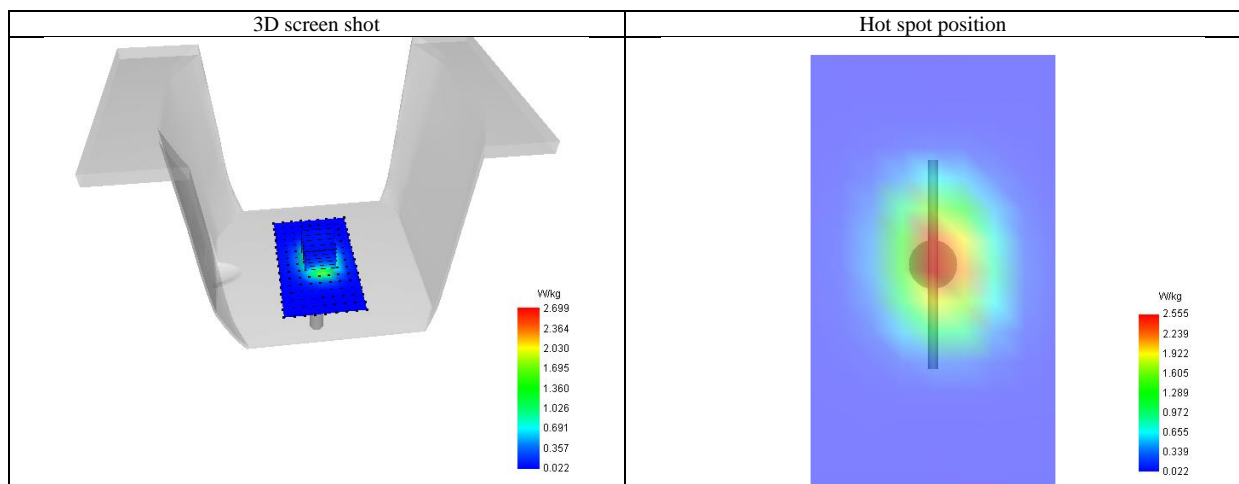
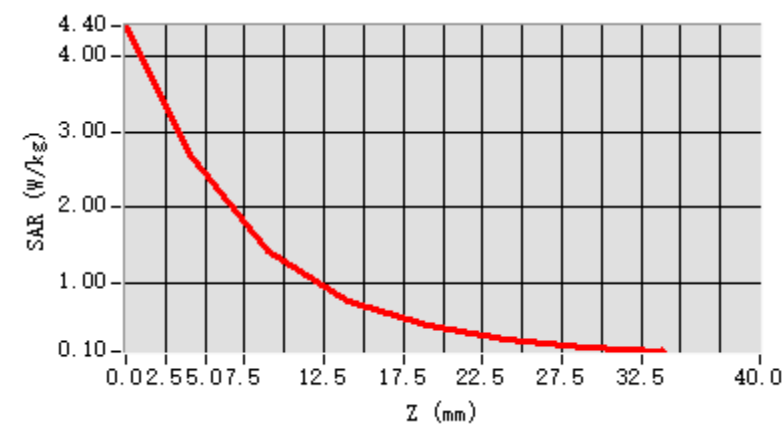
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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.421	2.715	1.438	0.799	0.450	0.275	0.172



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

**Test Laboratory: AGC Lab**  
**System Check Head 1900MHz**  
**DUT: Dipole 1900 MHz; Type: SID 1900**

**Date: Apr. 05, 2025**

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.08  
Frequency: 1900 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.39$  mho/m;  $\epsilon_r = 39.52$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm

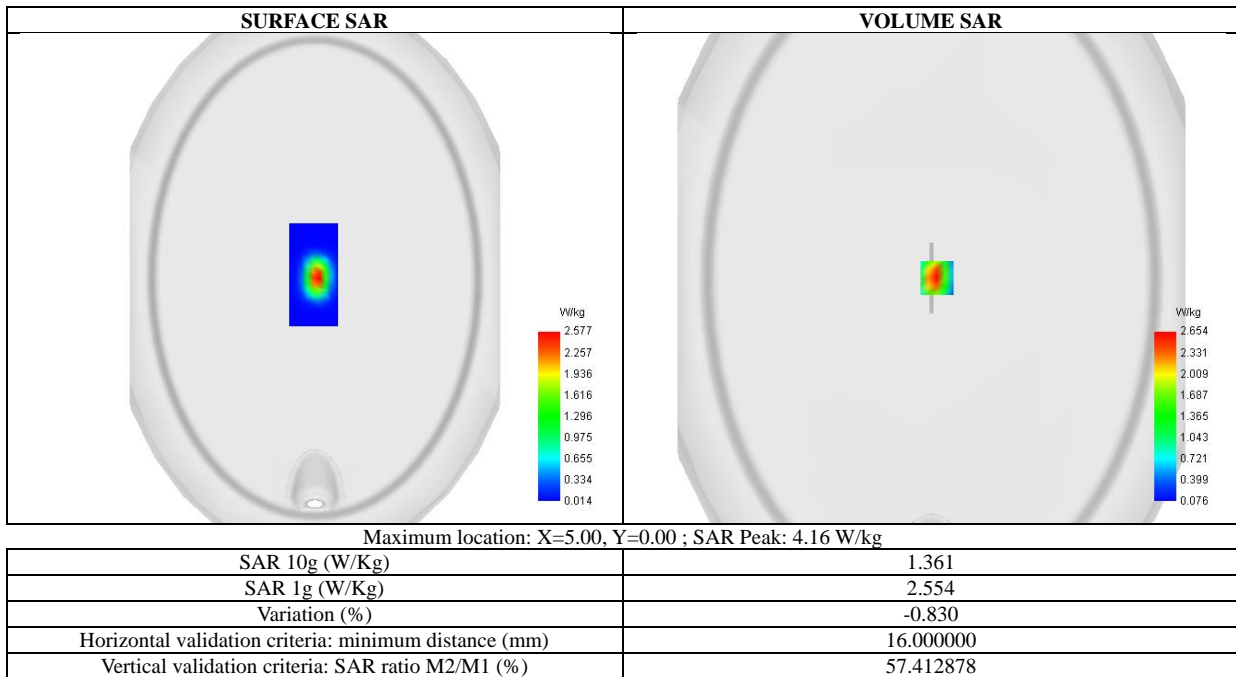
Ambient temperature (°C):21.8, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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

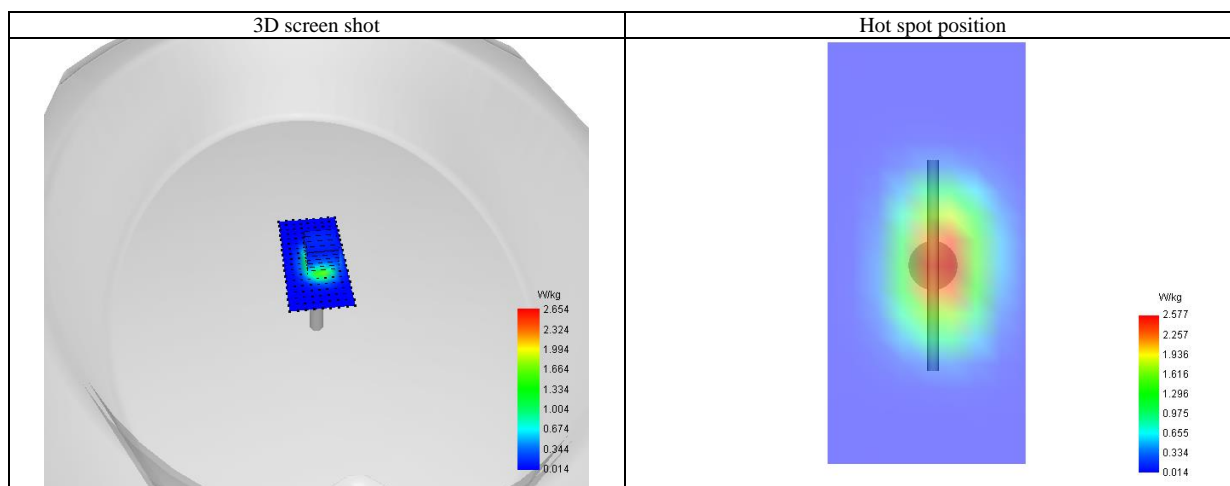
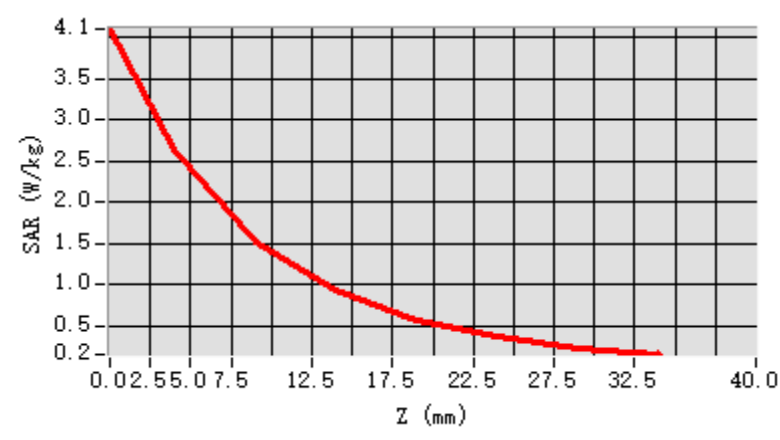
**Configuration/System Check 1900MHz Head/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm



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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.136	2.689	1.553	0.951	0.596	0.390	0.273



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Test Laboratory: AGC Lab

Date: Apr. 08, 2025

System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.16

Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 38.96$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section; Input Power=18dBm

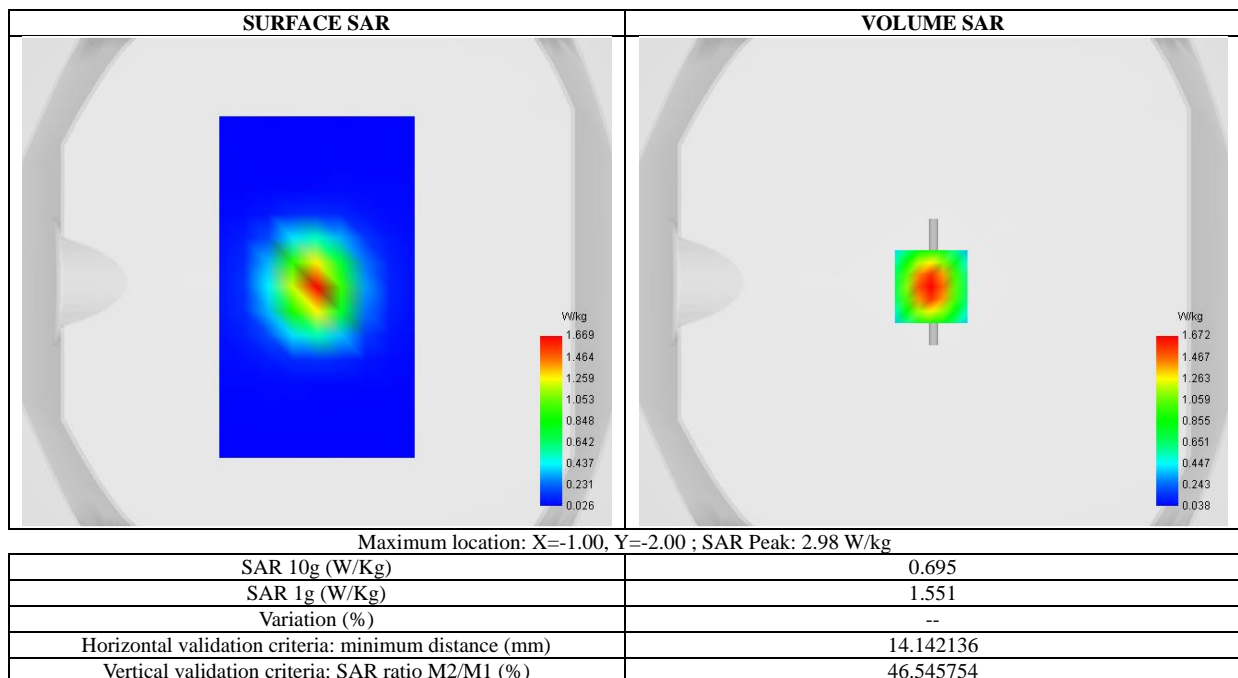
Ambient temperature (°C):21.2, Liquid temperature (°C): 21.0

SATIMO Configuration

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

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



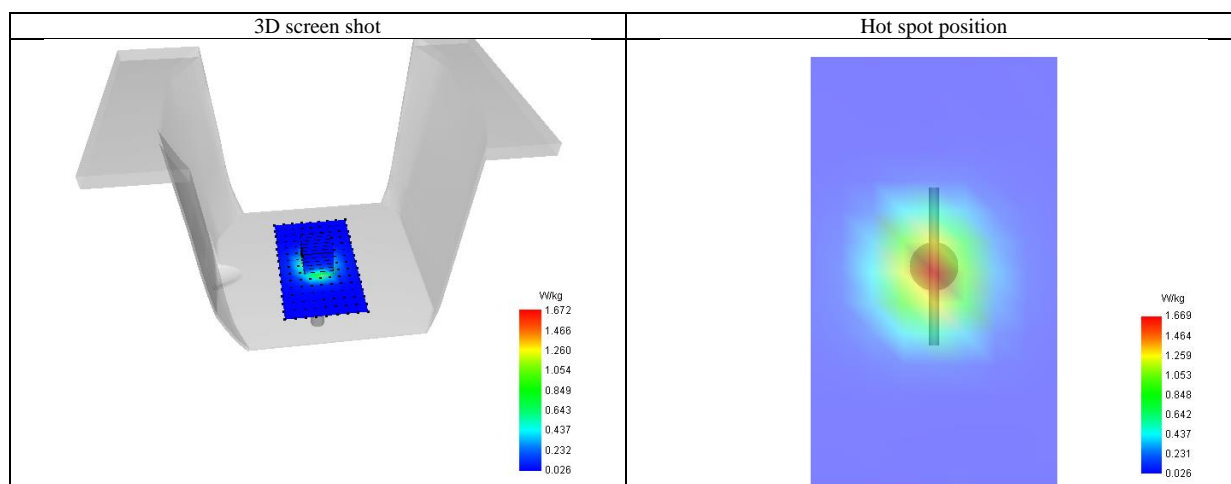
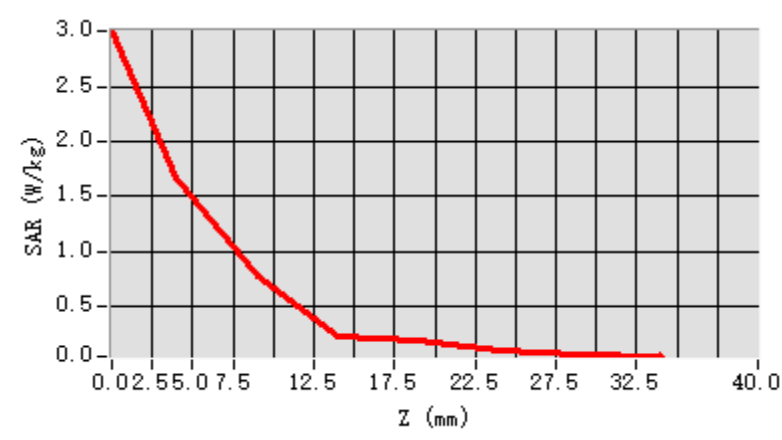
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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.005	1.672	0.778	0.234	0.194	0.109	0.067



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Test Laboratory: AGC Lab

Date: Apr. 08, 2025

System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.16

Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 38.96$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section; Input Power=18dBm

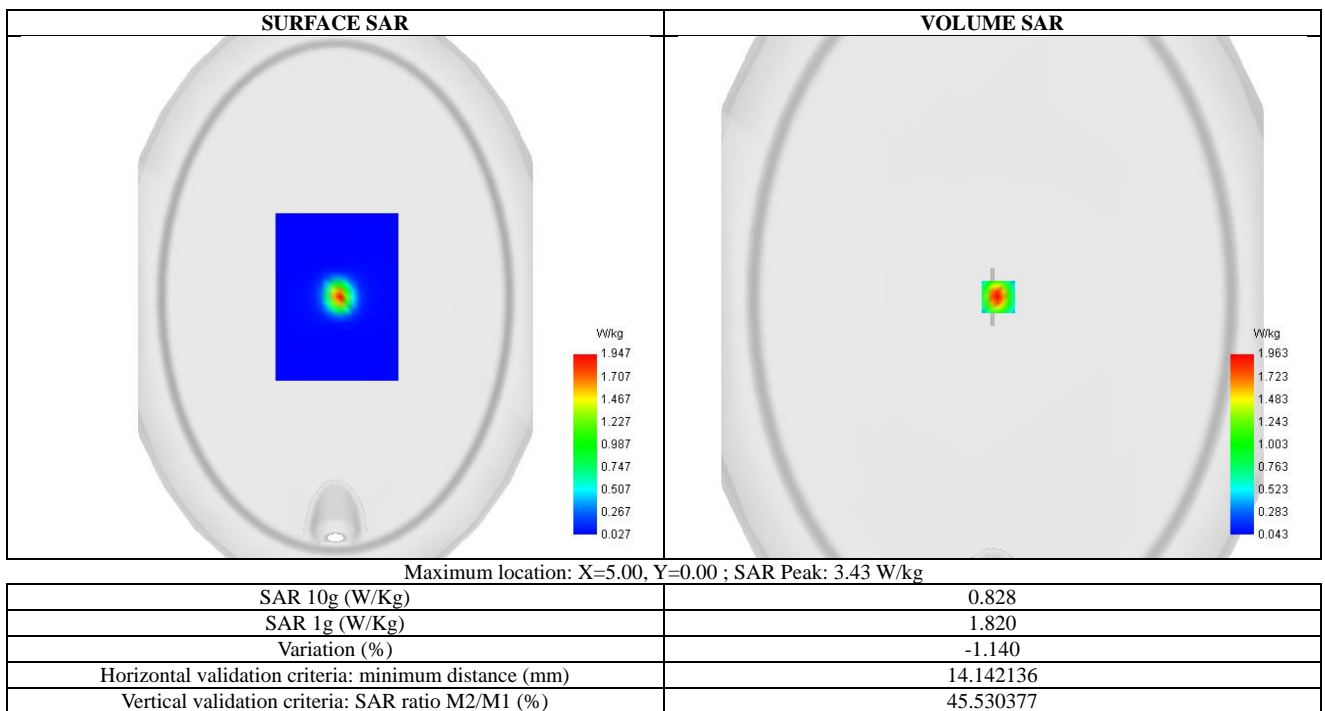
Ambient temperature (°C):21.2, Liquid temperature (°C): 21.0

SATIMO Configuration

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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



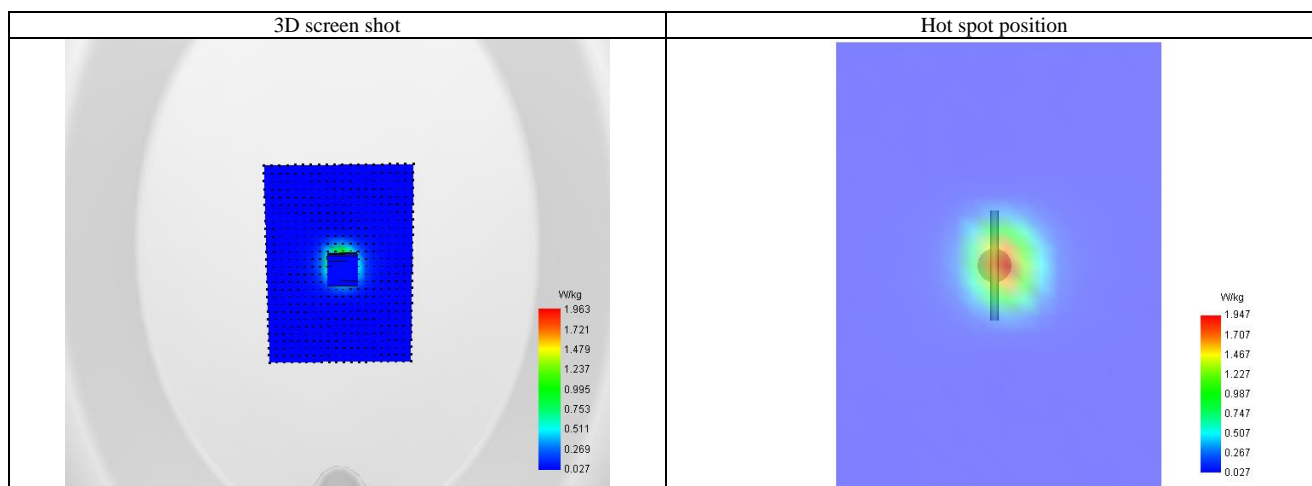
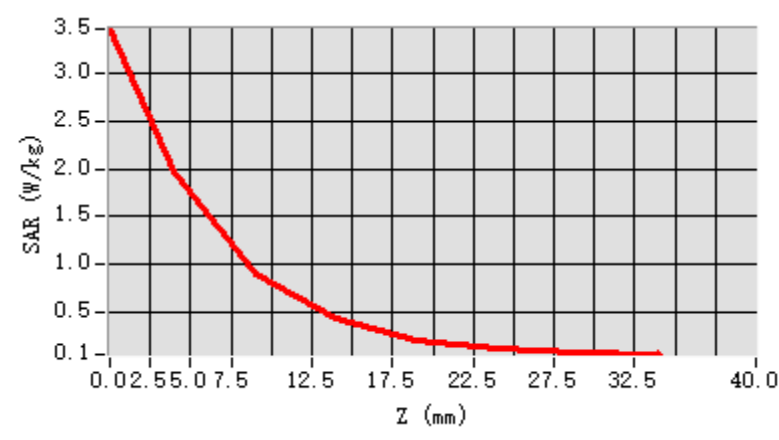
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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.470	1.963	0.894	0.429	0.212	0.119	0.073



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**Test Laboratory: AGC Lab**  
**System Check Head 2600MHz**  
**DUT: Dipole 2600 MHz; Type: SID 2600**

**Date: Apr. 09, 2025**

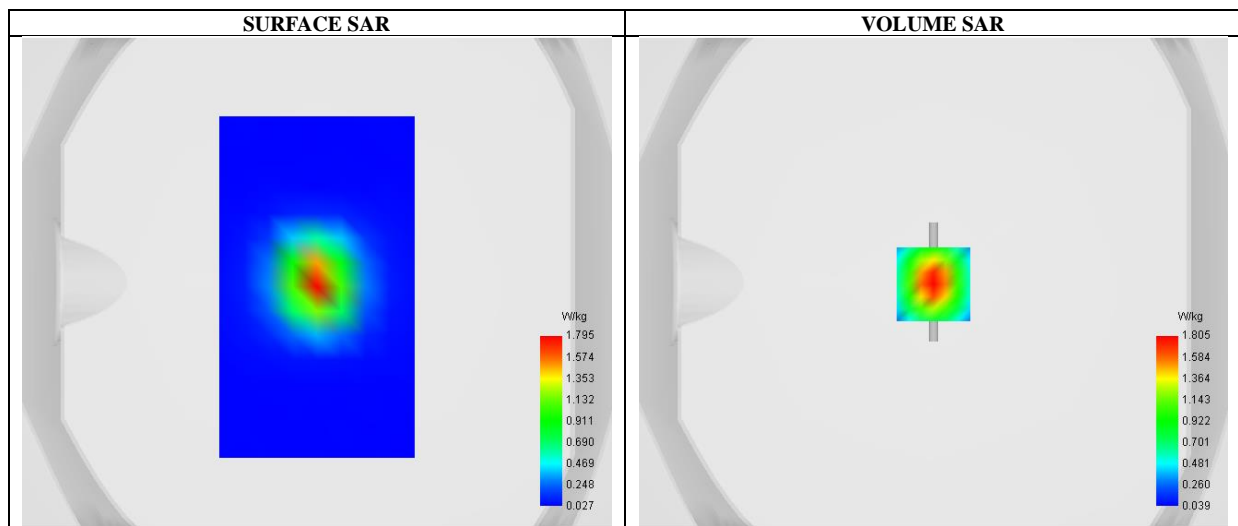
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=2.06  
Frequency:2600 MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 39.78$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

**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



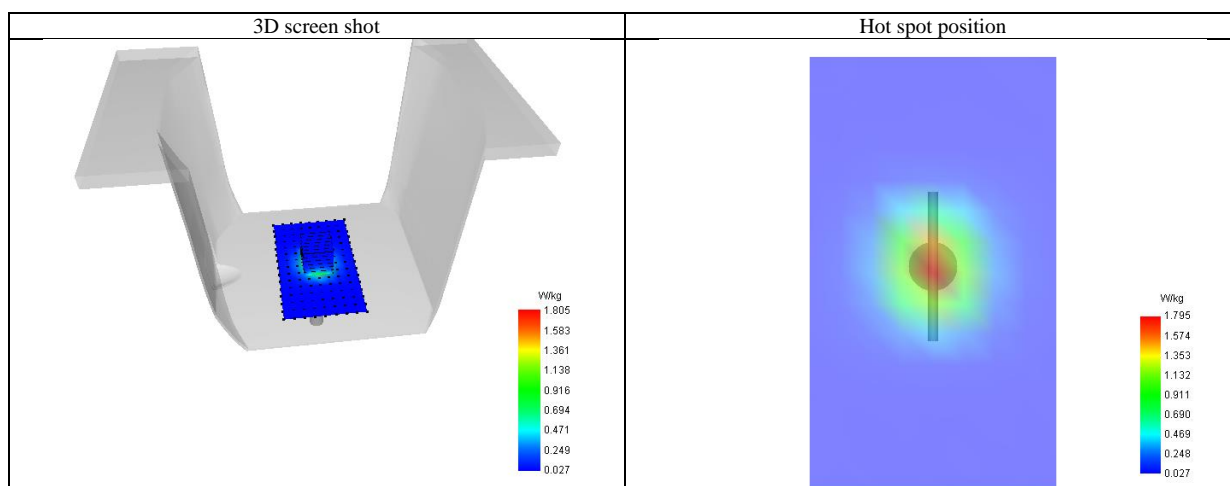
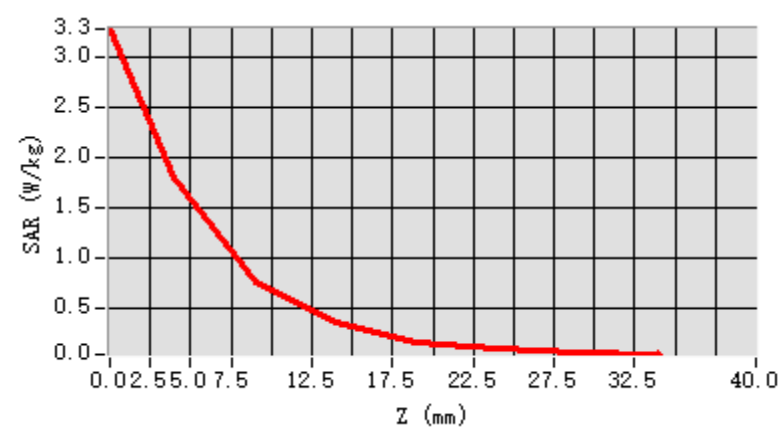
Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 3.25 W/kg

SAR 10g (W/Kg)	0.730
SAR 1g (W/Kg)	1.669
Variation (%)	0.860
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	42.984585

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.288	1.805	0.776	0.360	0.175	0.100	0.066



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**Test Laboratory: AGC Lab**  
**System Check Head 2600MHz**  
**DUT: Dipole 2600 MHz; Type: SID 2600**

**Date: TTDD9**

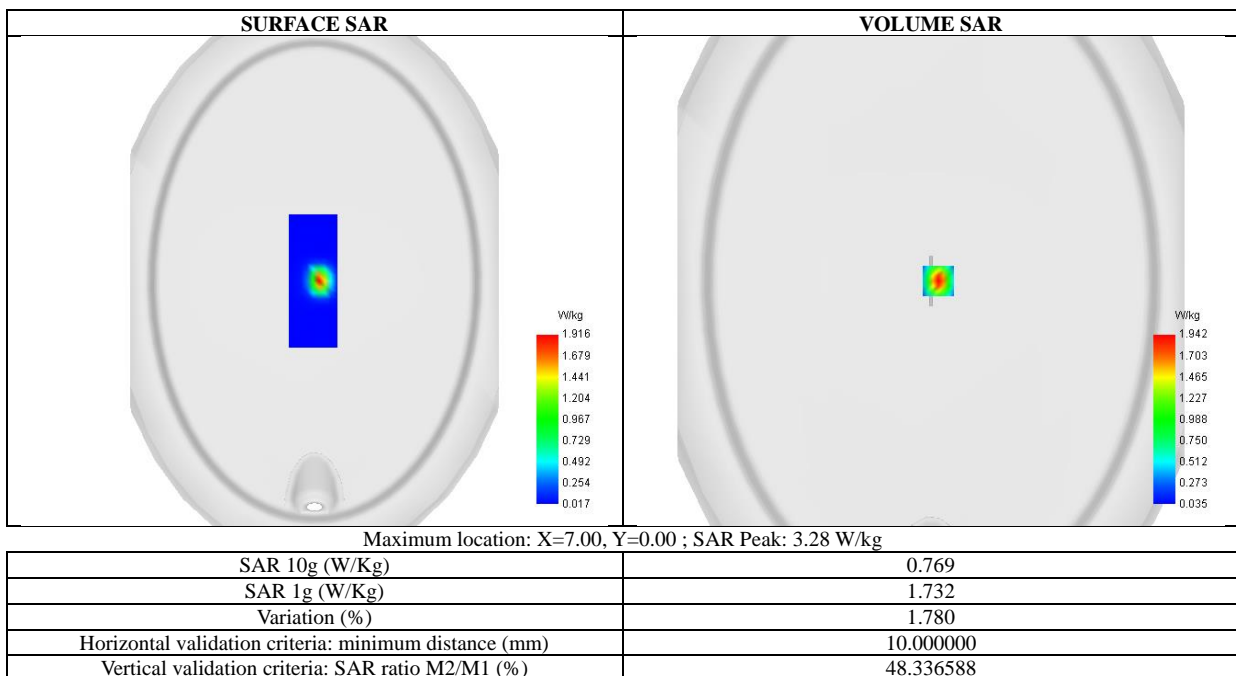
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=2.06  
Frequency:2600 MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 39.78$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

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

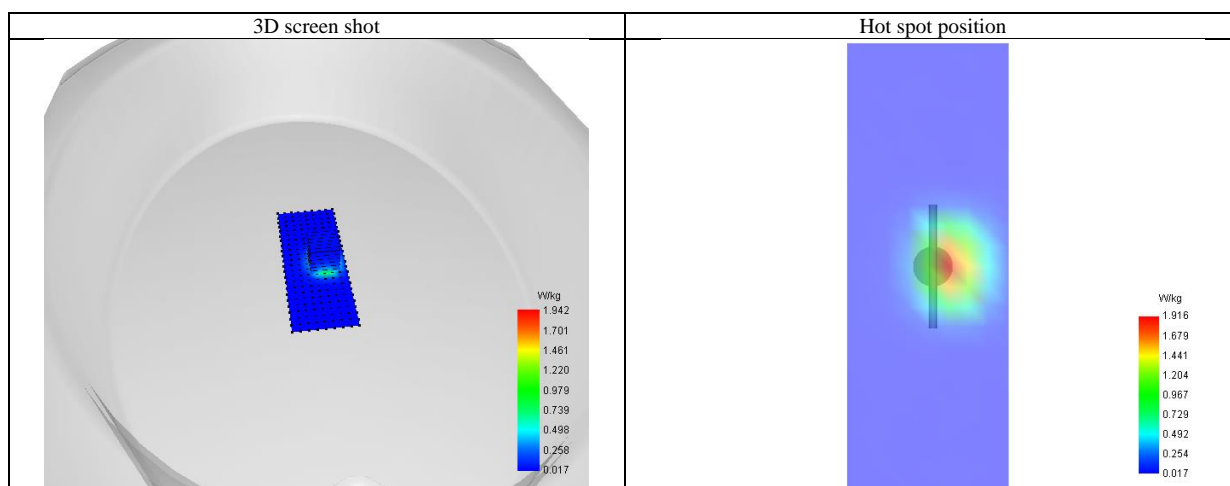
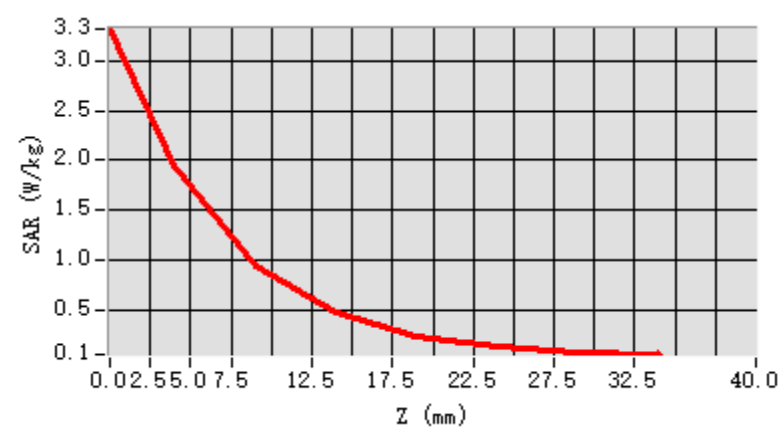
**Configuration/System Check 2600 Head/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm



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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.297	1.922	0.915	0.457	0.220	0.118	0.063



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Test Laboratory: AGC Lab

Date: Apr. 10, 2025

System Check 5200 MHz

DUT: Dipole 5000MHz Type: SID5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.53

Frequency: 5200 MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.57$  mho/m;  $\epsilon_r = 35.44$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section; Input Power=10dBm

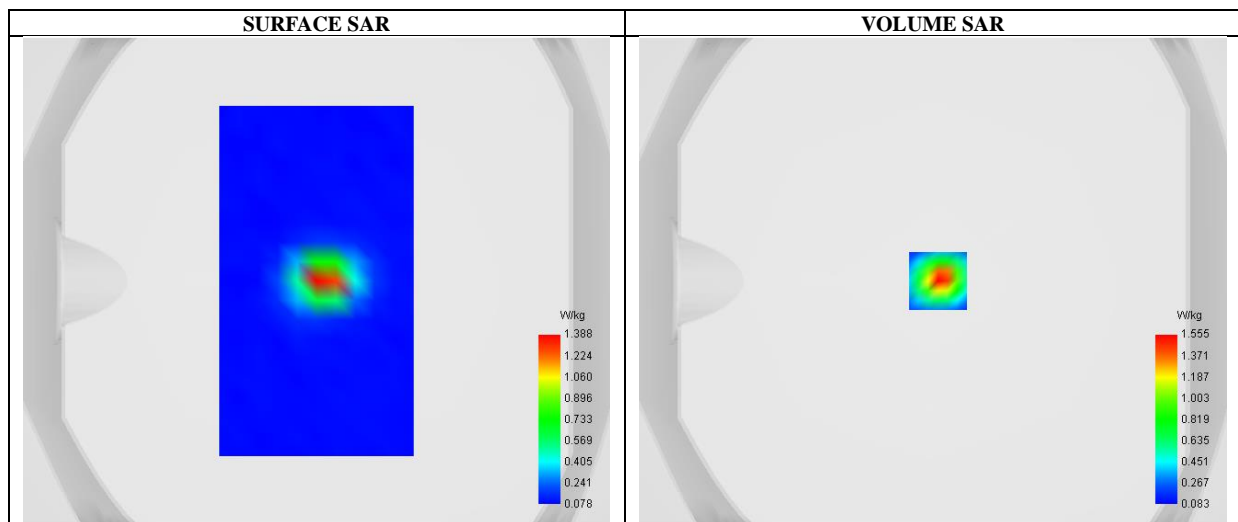
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm, dy=4mm, dz=2mm



Maximum location: X=2.00, Y=0.00 ; SAR Peak: 2.72 W/kg

SAR 10g (W/Kg)	0.207
SAR 1g (W/Kg)	0.793
Variation (%)	6.050
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.773495

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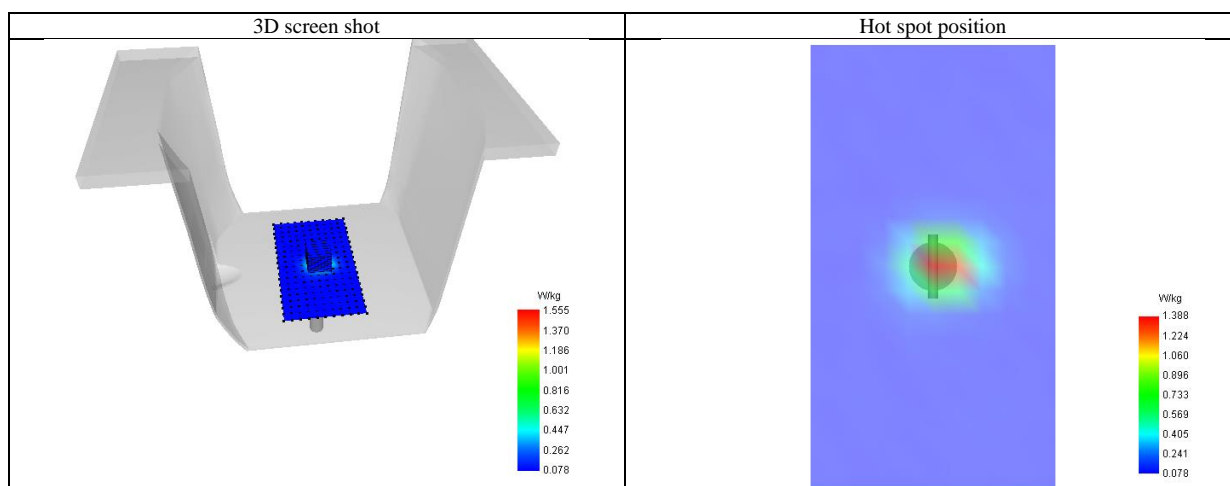
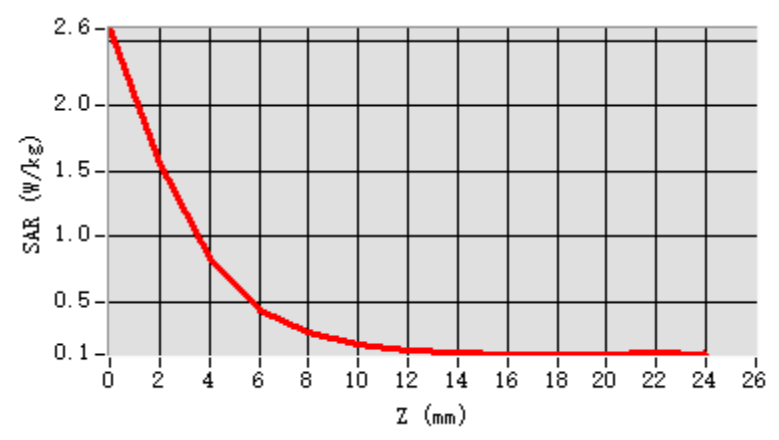
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Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.586	1.555	0.836	0.443	0.260	0.179	0.127	0.109	0.101	0.099	0.102	0.107



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Test Laboratory: AGC Lab

Date: Apr. 10, 2025

System Check 5200 MHz

DUT: Dipole 5000MHz Type: SID5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.53

Frequency: 5200 MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.57$  mho/m;  $\epsilon_r = 35.44$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section; Input Power=10dBm

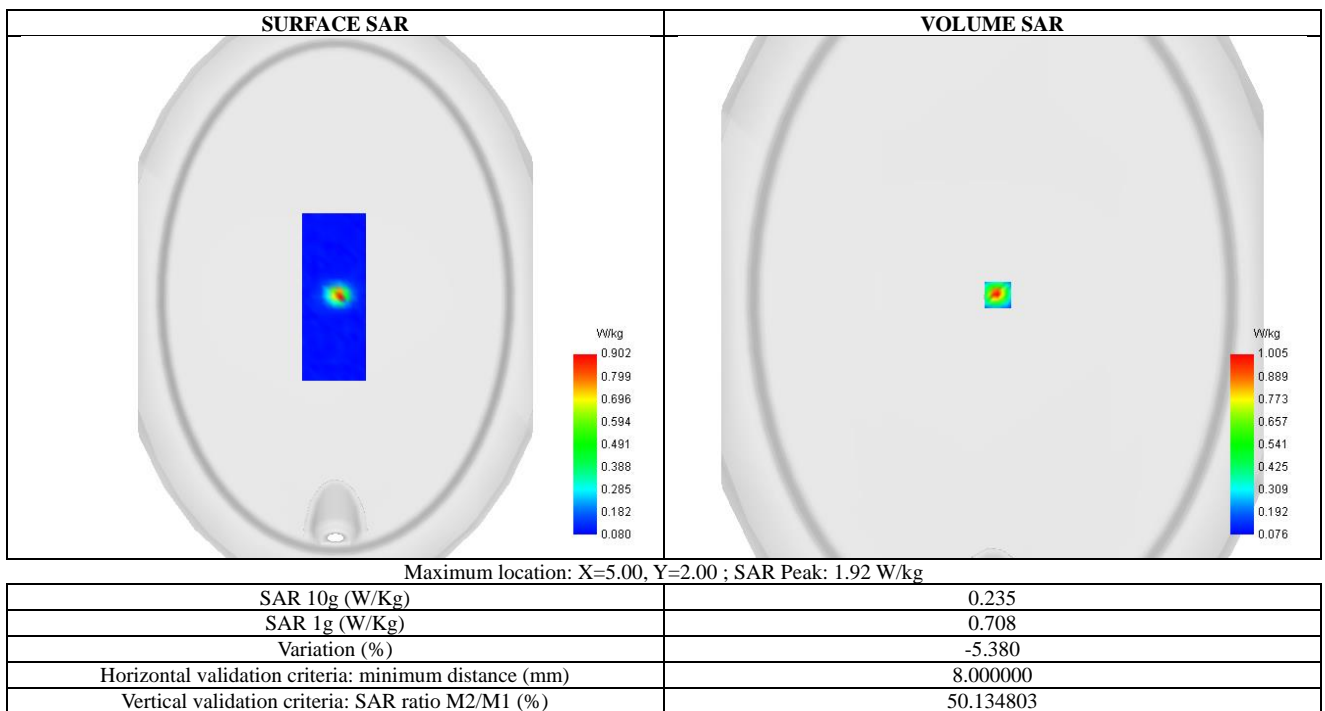
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm, dy=4mm, dz=2mm



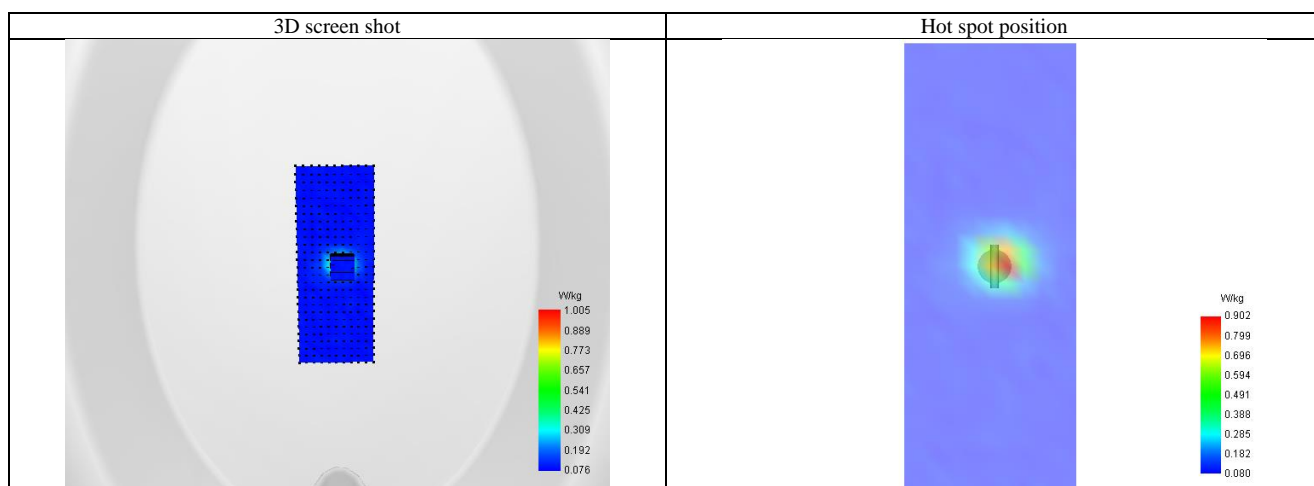
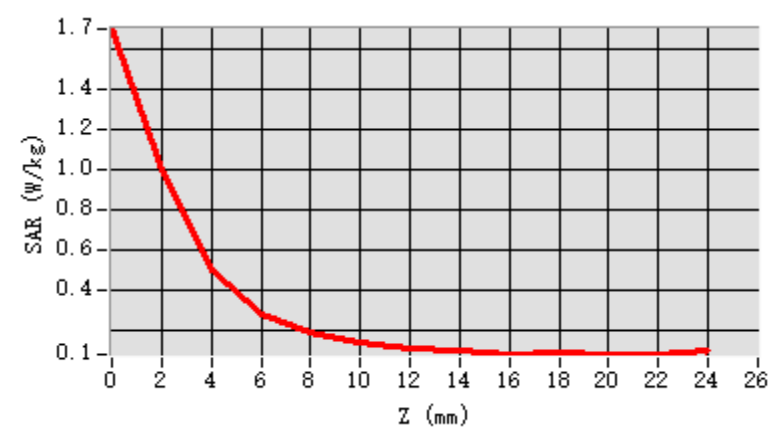
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Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.813	1.427	0.729	0.495	0.399	0.257	0.202	0.108	0.101	0.097	0.104	0.083



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**Test Laboratory: AGC Lab**  
**System Check Head 5800 MHz**  
**DUT: Dipole 5000MHz Type: SID5800**

**Date: Apr. 11, 2025**

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.37  
Frequency: 5800 MHz; Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.18$  mho/m;  $\epsilon_r = 36.10$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm

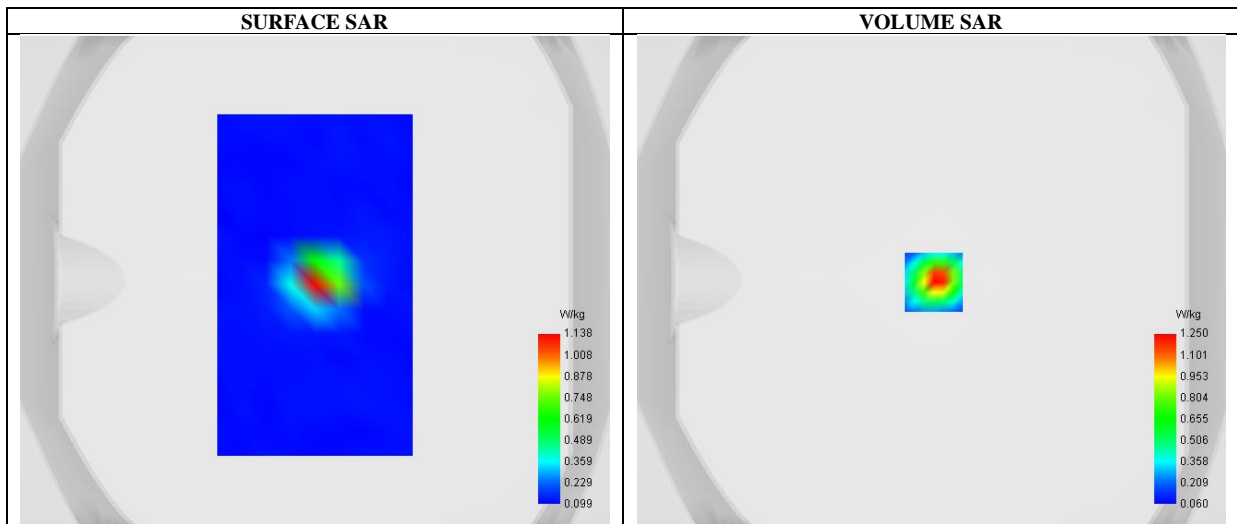
Ambient temperature (°C): 20.0, Liquid temperature (°C): 19.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/System Check 5800 MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 5800 MHz Head/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm



Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 2.26 W/kg

SAR 10g (W/Kg)	0.239
SAR 1g (W/Kg)	0.716
Variation (%)	4.670
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.989010

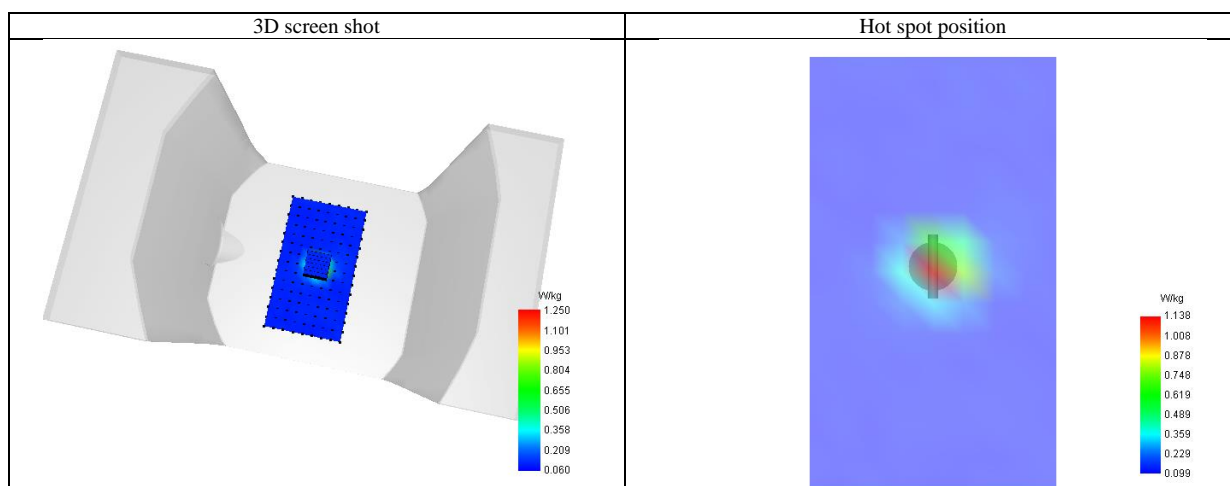
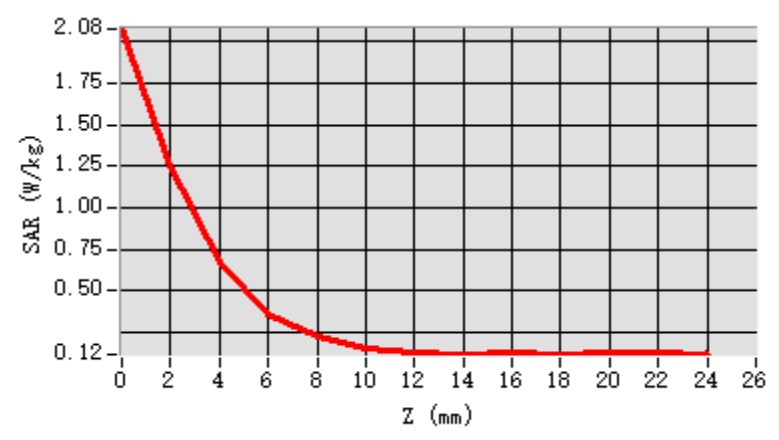
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Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.077	1.250	0.675	0.360	0.229	0.151	0.127	0.121	0.126	0.118	0.131	0.132



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**Test Laboratory: AGC Lab**  
**System Check Head 5800 MHz**  
**DUT: Dipole 5000MHz Type: SID5800**

**Date: Apr. 11, 2025**

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.37  
Frequency: 5800 MHz; Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.18$  mho/m;  $\epsilon_r = 36.10$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm

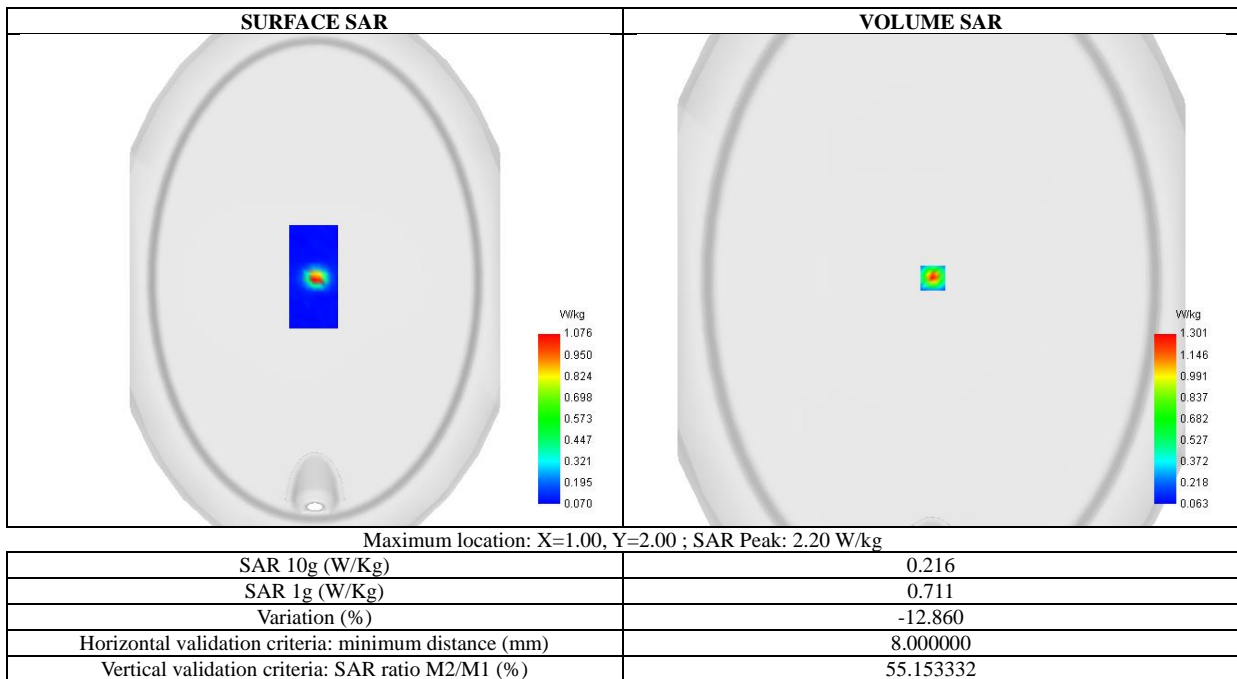
Ambient temperature (°C): 20.0, Liquid temperature (°C): 19.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/System Check 5800 MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

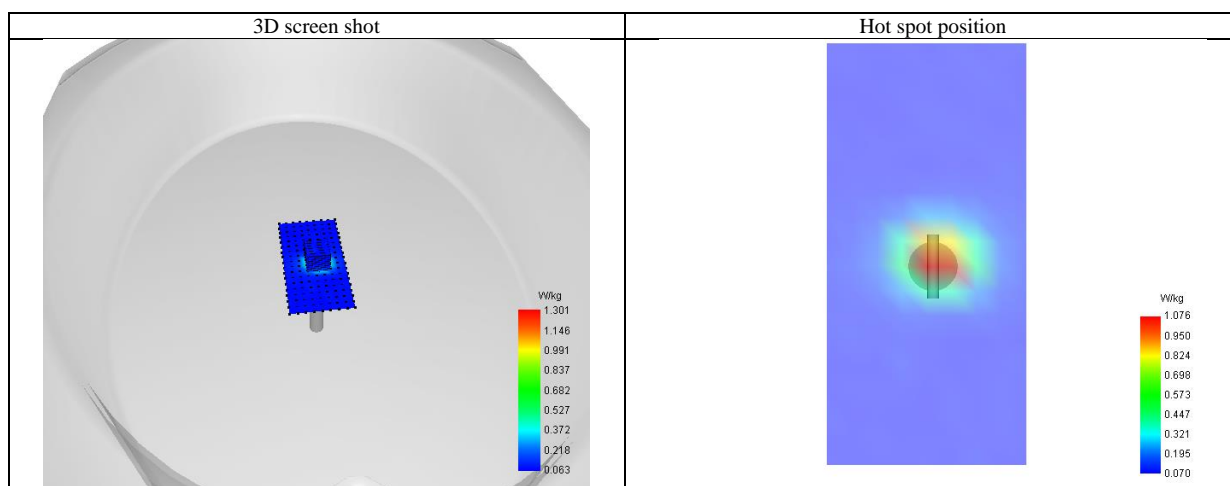
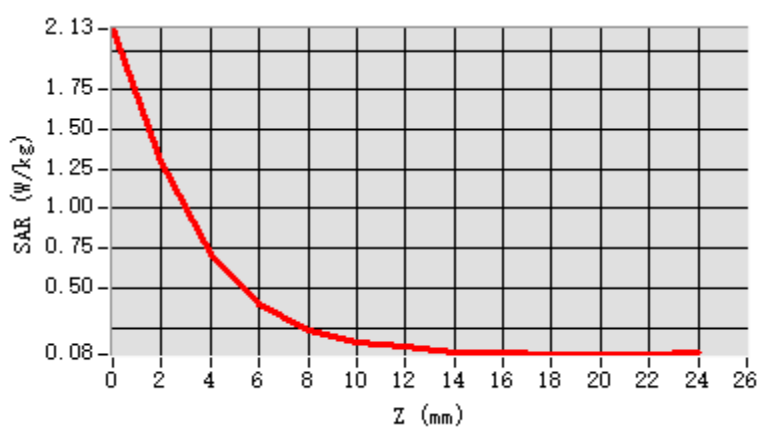
**Configuration/System Check 5800 MHz Head/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm



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Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.117	1.285	0.702	0.389	0.212	0.144	0.105	0.060	0.079	0.066	0.061	0.069



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## APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab

Date: Apr. 07, 2025

GSM 850 Mid- Touch-Right &lt;SIM 1&gt;

DUT: VIU-500 model 700; Type: VIU-500 Model 700

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.89;  
Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.93$  mho/m;  $\epsilon_r = 41.96$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section

Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

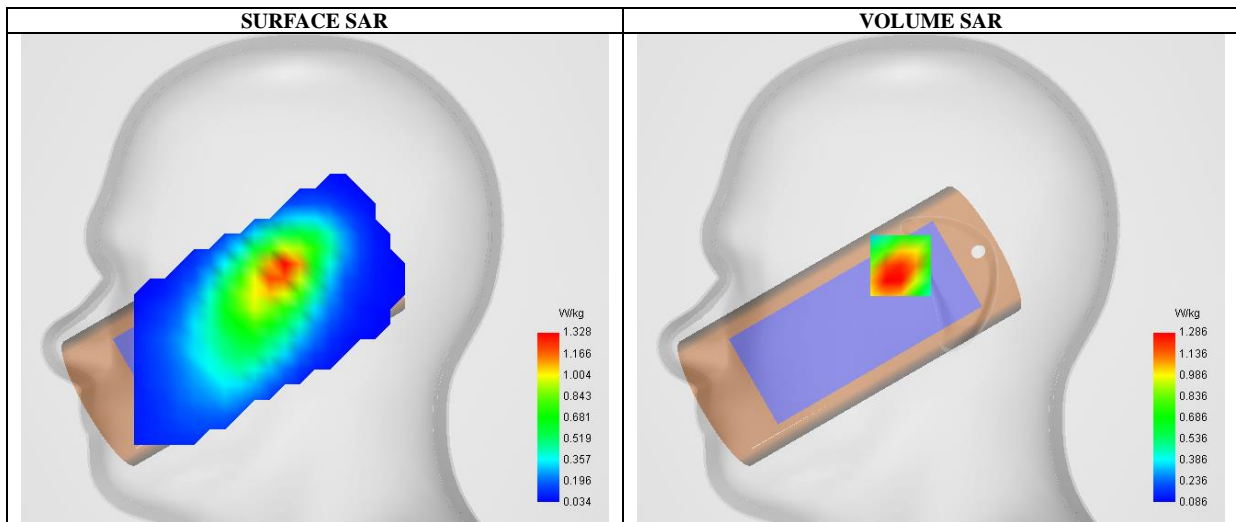
SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

**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;

<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>	GSM 850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)



Maximum location: X=-16.00, Y=7.00 ; SAR Peak: 1.98 W/kg

SAR 10g (W/Kg)	0.656
SAR 1g (W/Kg)	1.205
Variation (%)	-5.690
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	64.122500

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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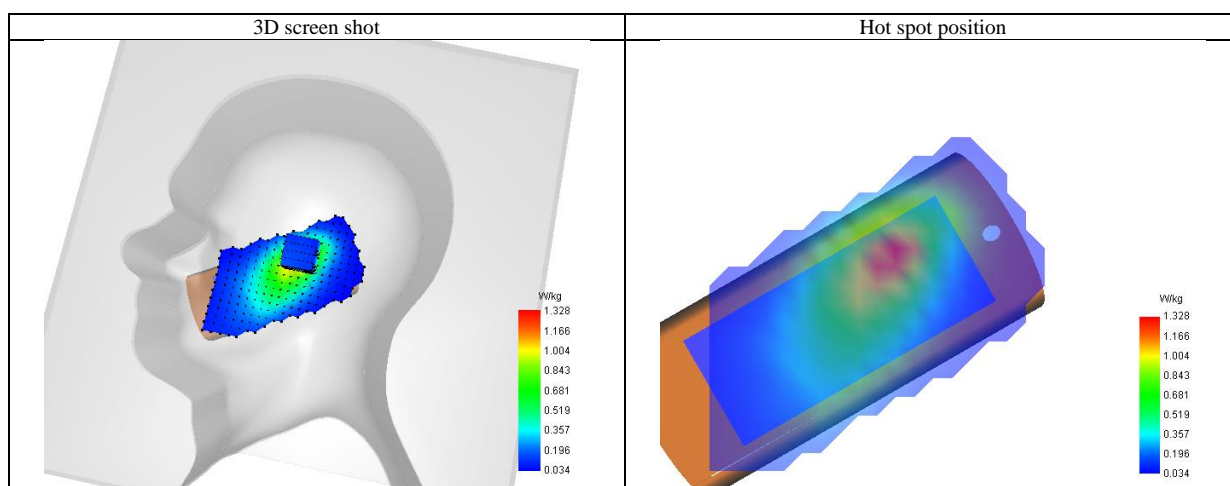
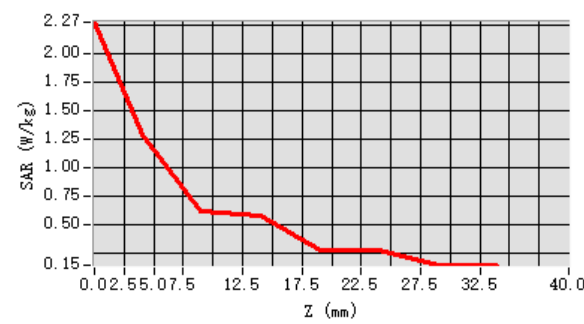
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SAR (W/Kg)	2.271	1.286	0.627	0.580	0.285	0.283	0.149
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Test Laboratory: AGC Lab  
GSM 850 High- Touch-Right <SIM 1>  
DUT: VIU-500 model 700; Type: VIU-500 Model 700

Date: Apr. 07, 2025

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.89;  
Frequency: 848.8 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 40.67$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section

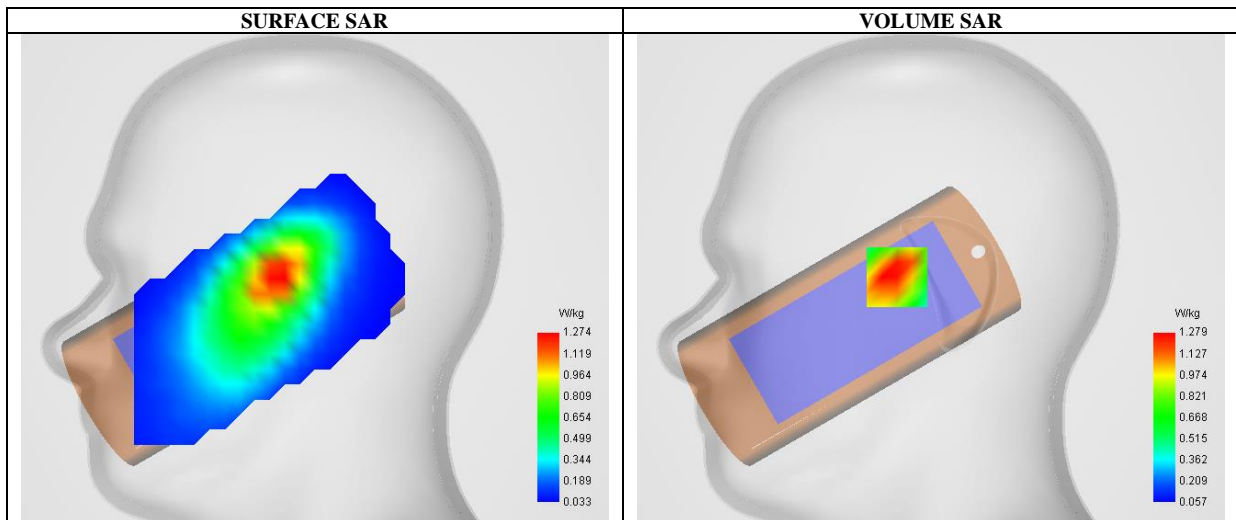
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/GSM 850 High-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm  
Configuration/GSM 850 High-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	High
Signal	TDMA (Crest factor: 8.0)



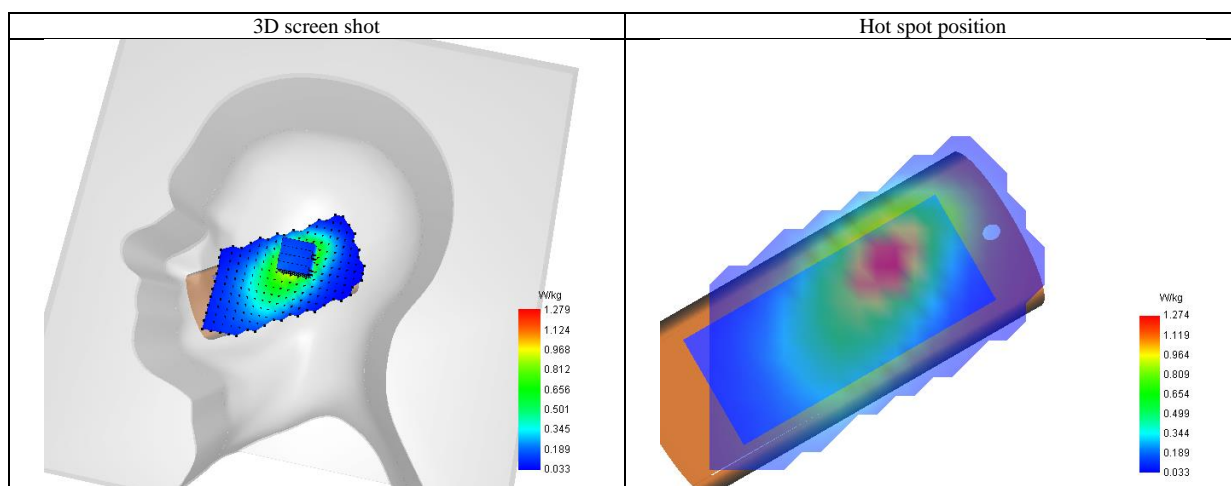
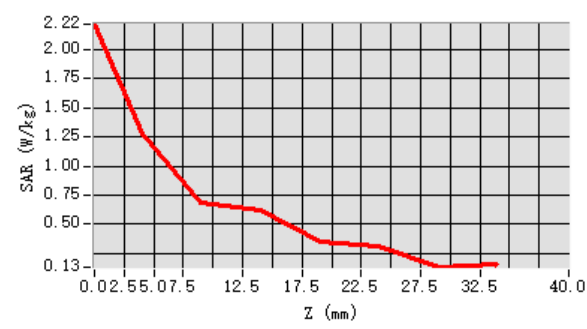
Maximum location: X=-18.00, Y=1.00 ; SAR Peak: 1.93 W/kg

SAR 10g (W/Kg)	0.701
SAR 1g (W/Kg)	1.187
Variation (%)	0.720
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	66.597750

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.216	1.279	0.691	0.620	0.353	0.309	0.132



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**Test Laboratory:** AGC Lab  
**GSM 850 High- Body- Front ( MS) <SIM 1>**  
**DUT:** VIU-500 model 700; **Type:** VIU-500 Model 700

**Date:** Apr. 07, 2025

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.89;  
Frequency: 848.8 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 40.67$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section

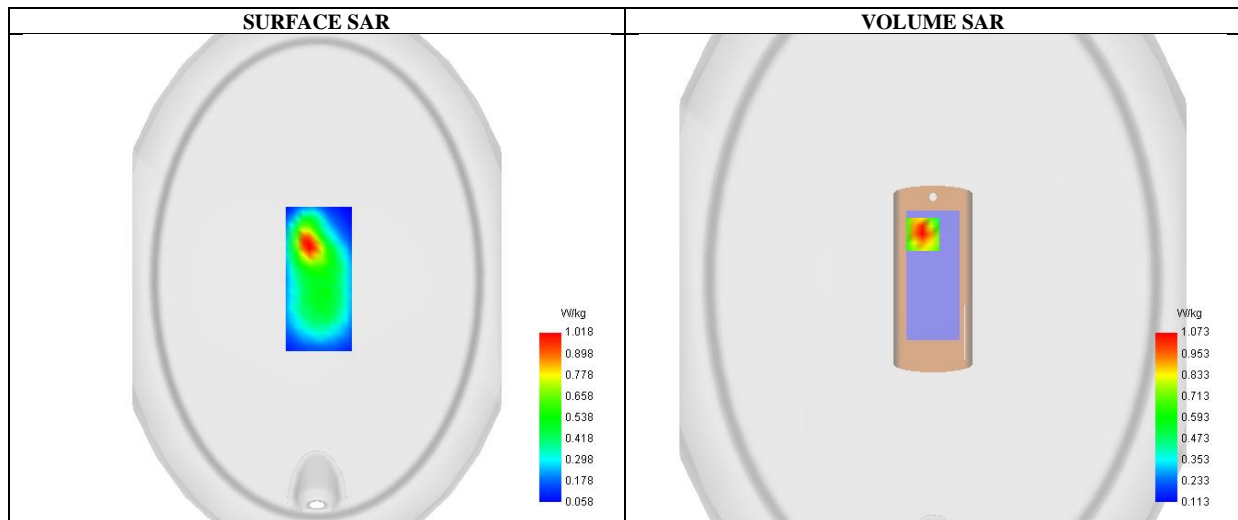
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/GSM 850 High-Body- Front /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/GSM 850 High-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>ZoomScan</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>	High
<b>Signal</b>	TDMA (Crest factor: 8.0)



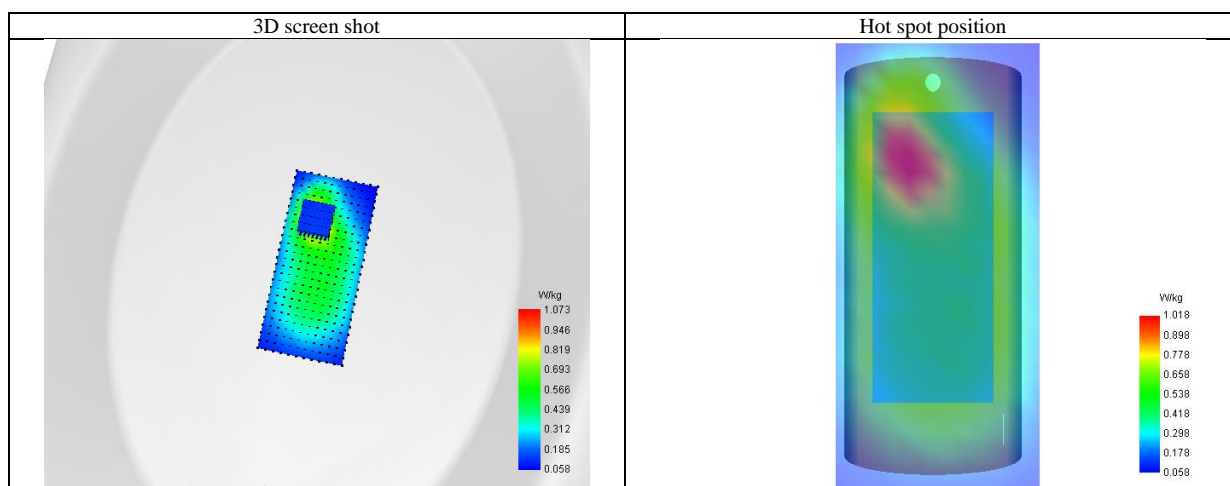
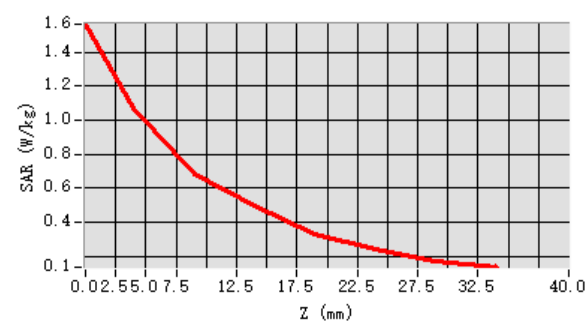
Maximum location: X=-10.00, Y=43.00 ; SAR Peak: 1.62 W/kg

SAR 10g (W/Kg)	0.639
SAR 1g (W/Kg)	1.039
Variation (%)	-5.050
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	63.403880

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.563	1.073	0.681	0.500	0.330	0.246	0.175



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**Test Laboratory: AGC Lab**  
**GPRS 850 High- Body- Front (4up)**  
**DUT: VIU-500 model 700; Type: VIU-500 Model 700**

**Date: Apr. 07, 2025**

Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1; Conv.F=1.89;  
Frequency: 848.8 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 40.67$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section

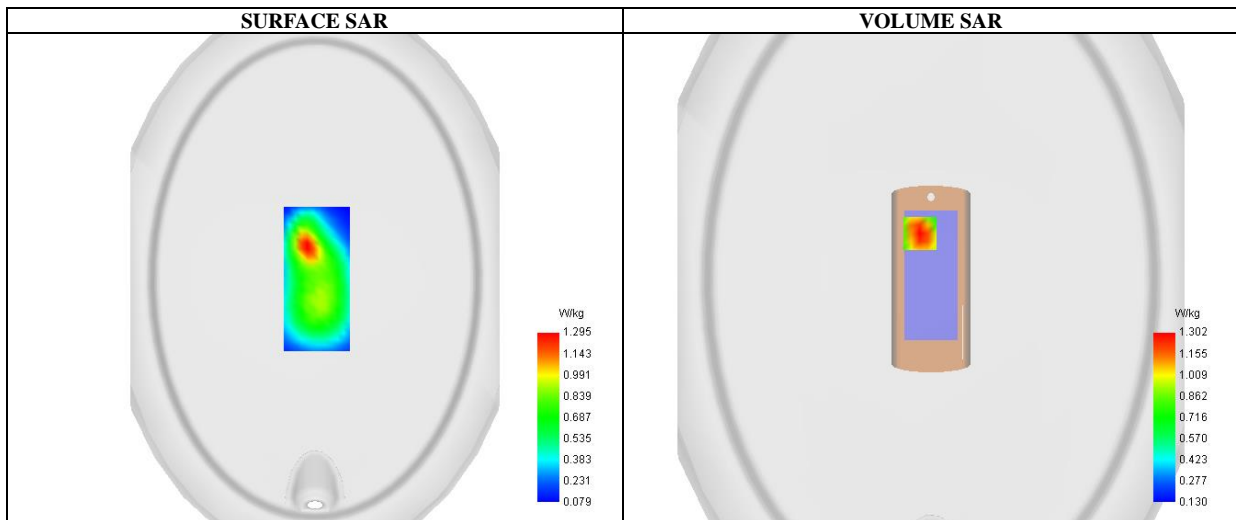
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/GPRS 850 High-Body-Front/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/GPRS 850 High-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>	High
<b>Signal</b>	TDMA (Crest factor: 2.0)



Maximum location: X=-11.00, Y=44.00 ; SAR Peak: 1.86 W/kg

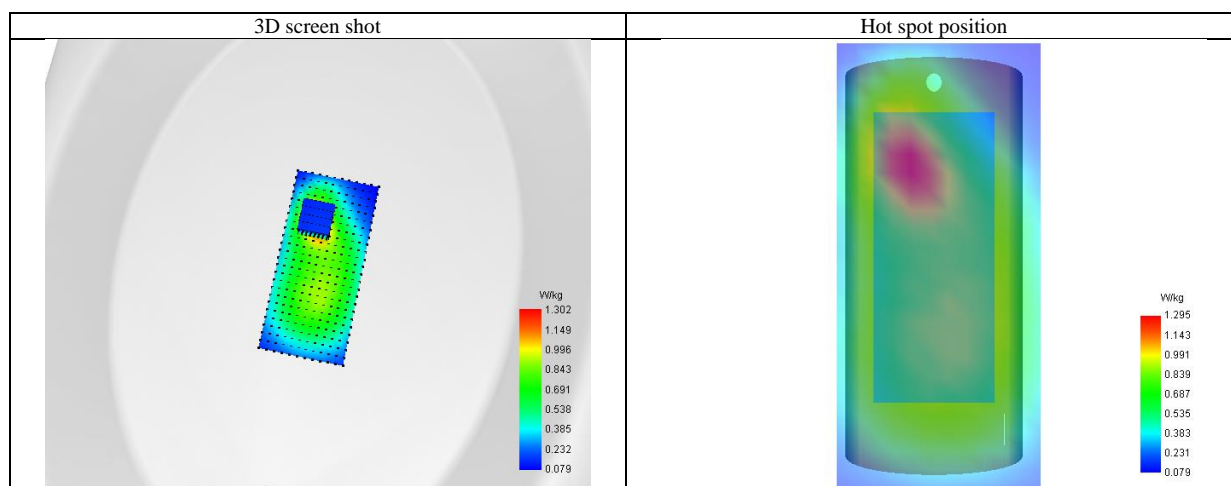
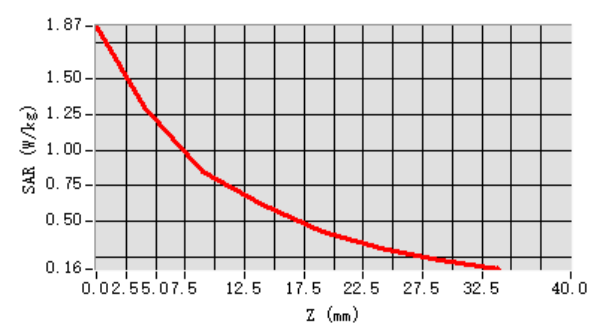
SAR 10g (W/Kg)	0.742
SAR 1g (W/Kg)	1.194
Variation (%)	-0.870
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	65.111600

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.868	1.302	0.848	0.612	0.430	0.312	0.227



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Test Laboratory: AGC Lab  
PCS 1900 Mid-Touch-Right <SIM 1>  
DUT: VIU-500 model 700; Type: VIU-500 Model 700

Date: Apr. 05, 2025

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.08;  
Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 39.81$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section

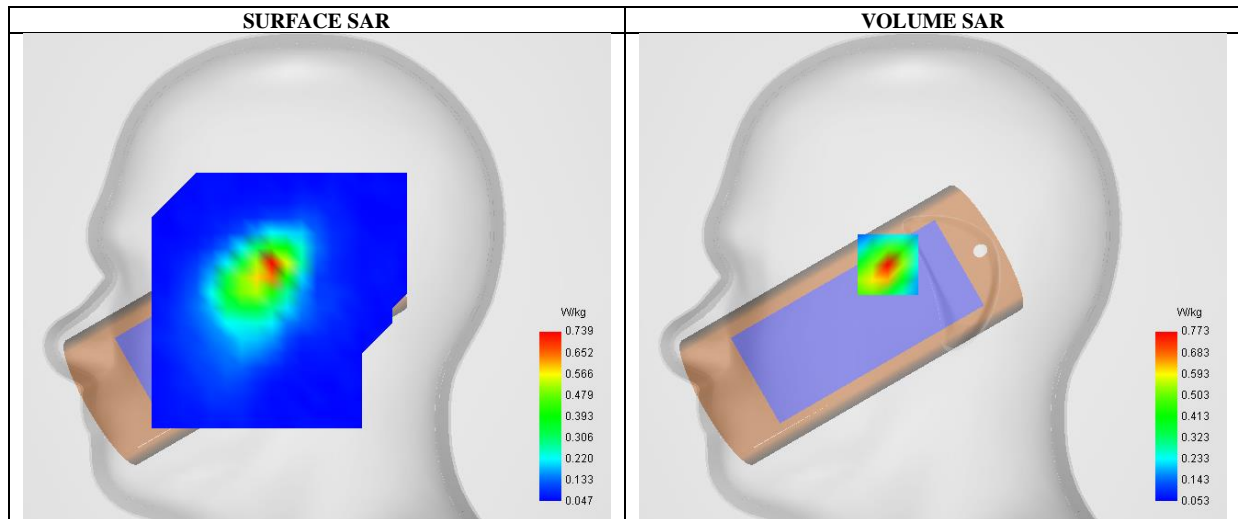
Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

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

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



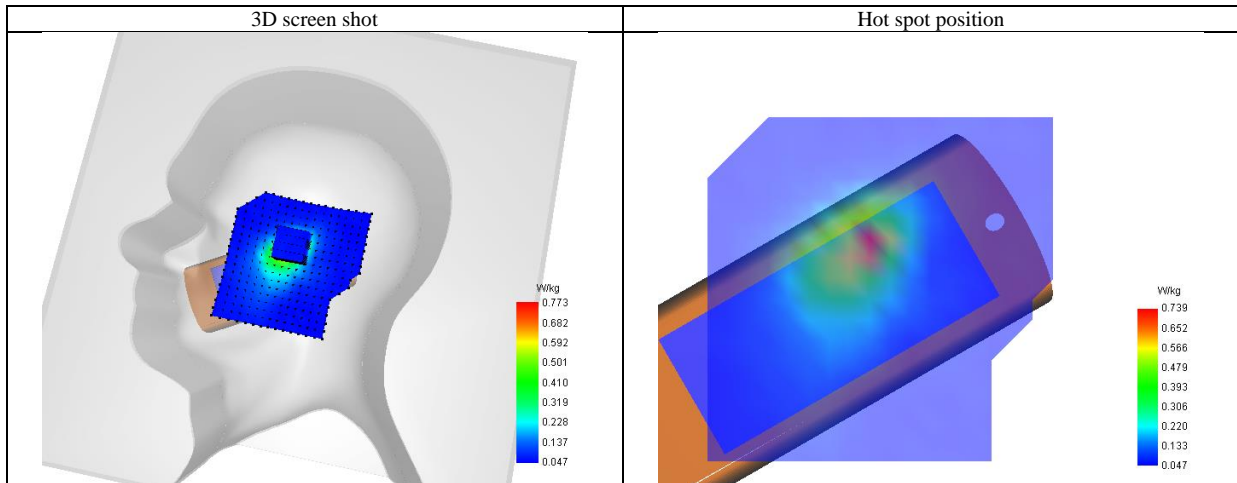
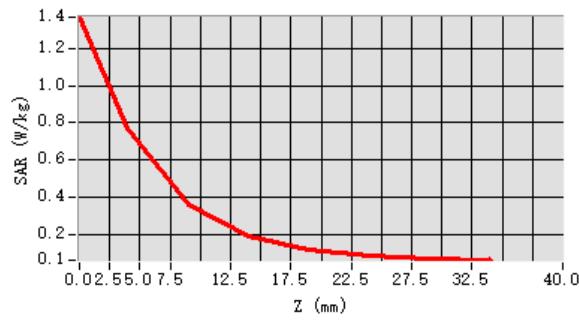
Maximum location: X=-24.00, Y=7.00 ; SAR Peak: 1.36 W/kg

SAR 10g (W/Kg)	0.329
SAR 1g (W/Kg)	0.708
Variation (%)	-2.220
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	46.784728

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.368	0.773	0.362	0.191	0.115	0.085	0.066



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Test Laboratory: AGC Lab  
PCS 1900 Mid-Body -Front (MS) <SIM 1>  
DUT: VIU-500 model 700; Type: VIU-500 Model 700

Date: Apr. 05, 2025

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.08;  
Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 39.81$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section

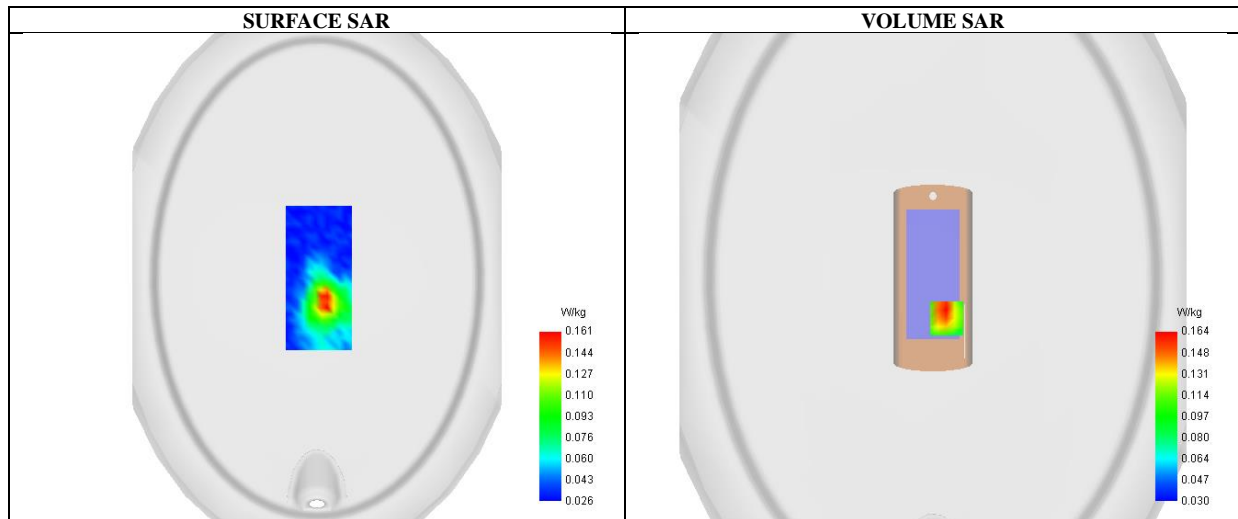
Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/PCS1900 Mid-Body- Front /Area Scan: Measurement grid: dx=8mm, dy=8mm  
Configuration/PCS1900 Mid-Body- Front /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	ELLI
Device Position	Body Front
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



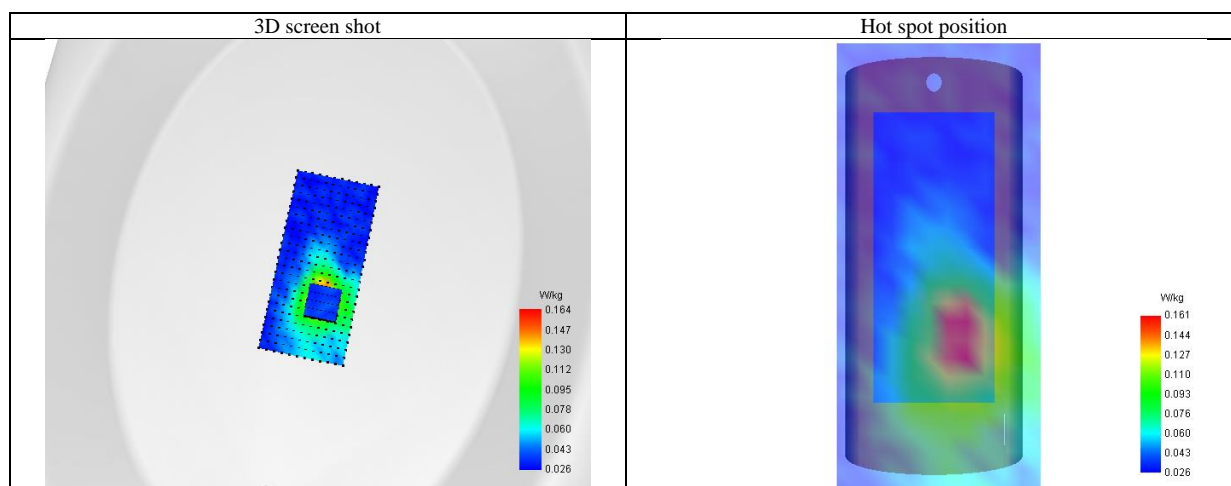
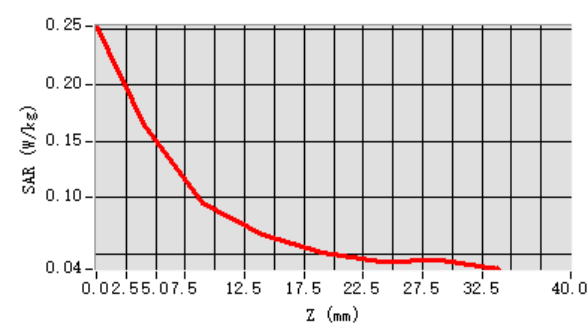
Maximum location: X=13.00, Y=-39.00 ; SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.093
SAR 1g (W/Kg)	0.162
Variation (%)	-7.210
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	57.203684

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.253	0.164	0.095	0.067	0.051	0.043	0.045



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**Test Laboratory:** AGC Lab  
**GPRS 1900 Mid-Body-Front (3up)**  
**DUT:** VIU-500 model 700; **Type:** VIU-500 Model 700

**Date:** Apr. 05, 2025

Communication System: GPRS-3Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.7; Conv.F=2.08;  
Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 39.81$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section

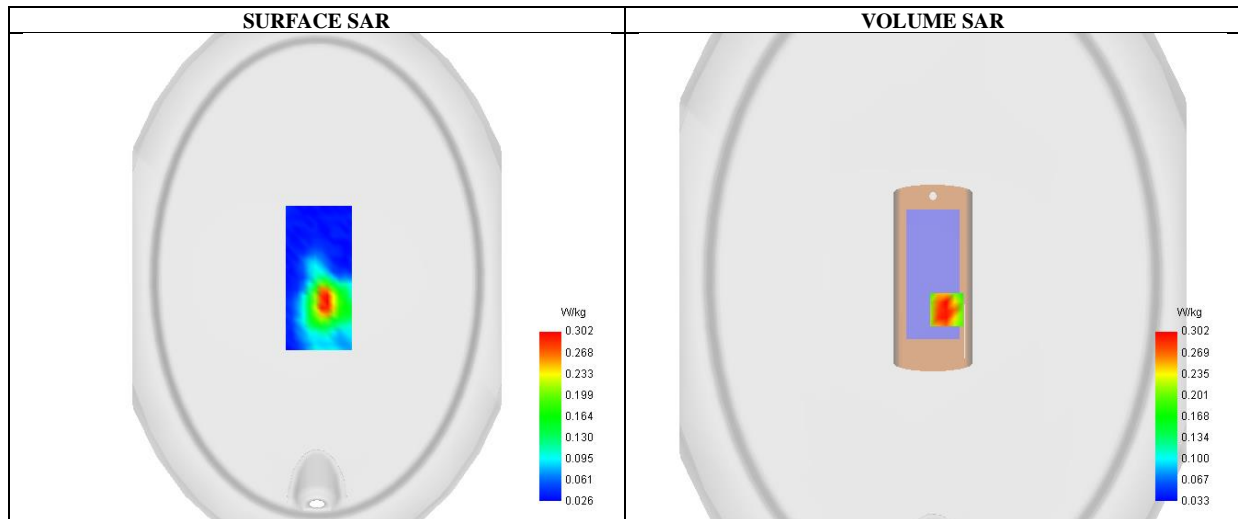
Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/GPRS1900 Mid-Body-Front/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/GPRS1900 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>	PCS 1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 2.7)



Maximum location: X=13.00, Y=-31.00 ; SAR Peak: 0.47 W/kg

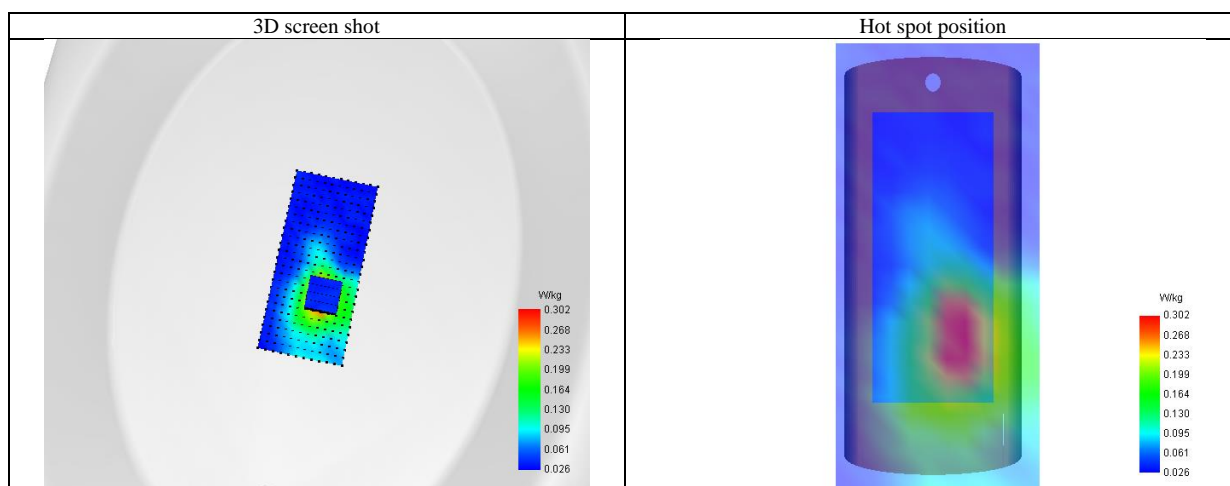
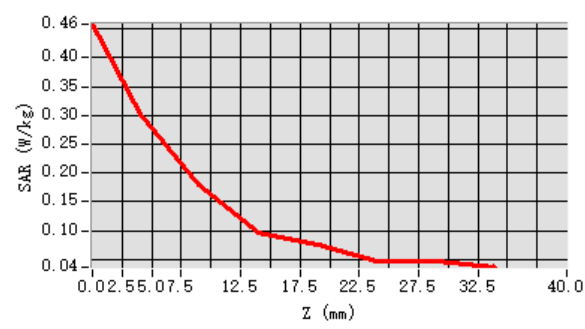
SAR 10g (W/Kg)	0.168
SAR 1g (W/Kg)	0.289
Variation (%)	19.500
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	56.745392

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.458	0.302	0.178	0.097	0.076	0.045	0.047



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**Test Laboratory:** AGC Lab  
**WCDMA Band II Mid-Touch-Right (RMC)**  
**DUT:** VIU-500 model 700; **Type:** VIU-500 Model 700

**Date:** Apr. 05, 2025

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.08;  
Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 39.81$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section

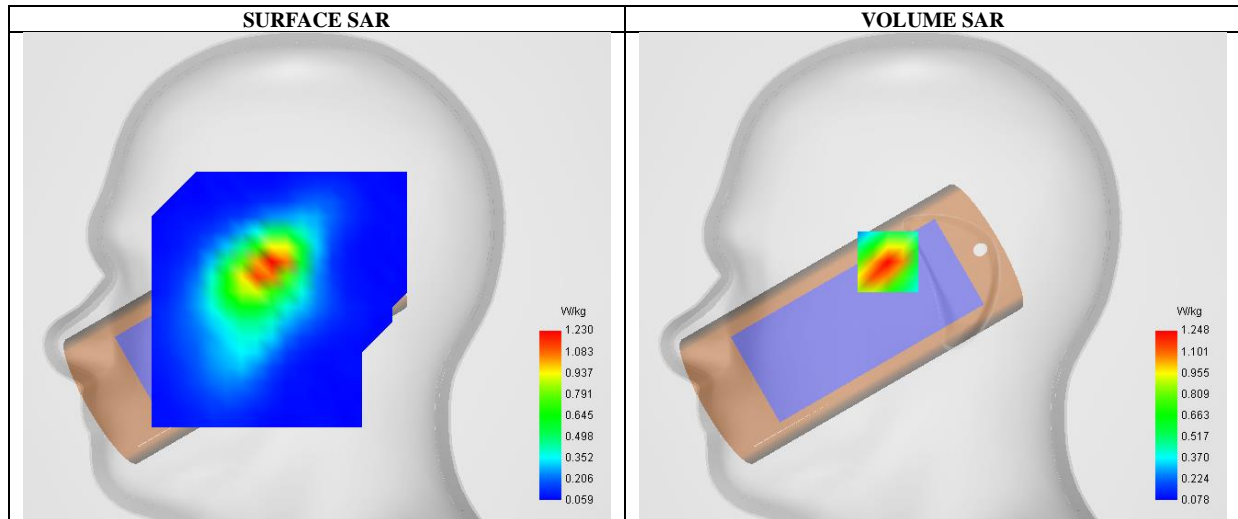
Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

**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)



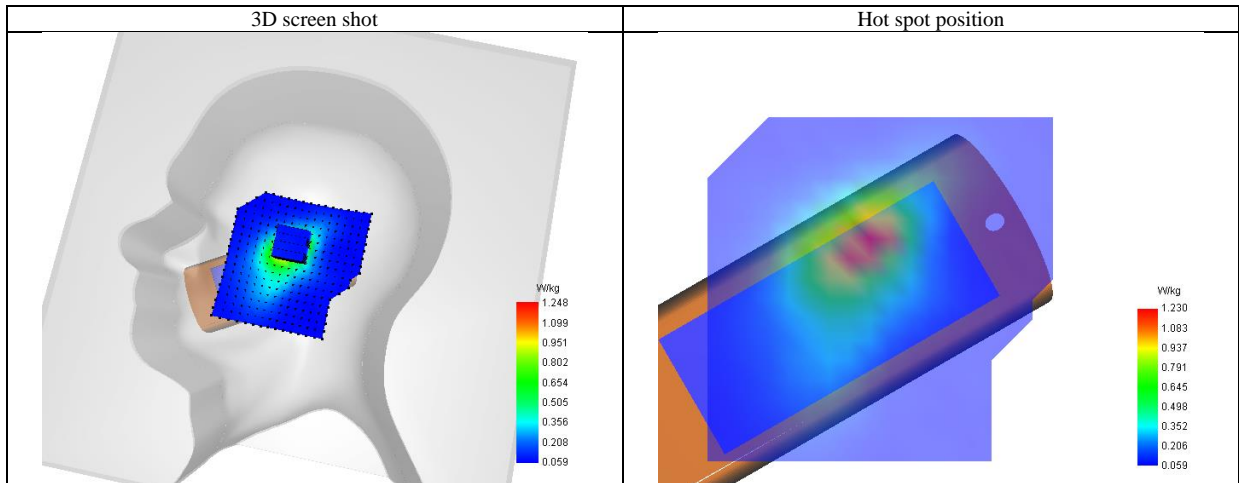
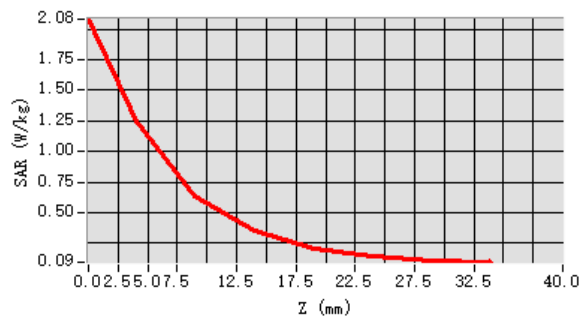
Maximum location: X=-24.00, Y=8.00 ; SAR Peak: 2.11 W/kg

SAR 10g (W/Kg)	0.597
SAR 1g (W/Kg)	1.178
Variation (%)	-1.710
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.076728

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.083	1.248	0.637	0.355	0.210	0.142	0.107



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**Test Laboratory: AGC Lab**  
**WCDMA Band II High-Touch-Right (RMC)**  
**DUT: VIU-500 model 700; Type: VIU-500 Model 700**

**Date: Apr. 05, 2025**

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.08;  
Frequency: 1907.6 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.40$  mho/m;  $\epsilon_r = 38.76$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section

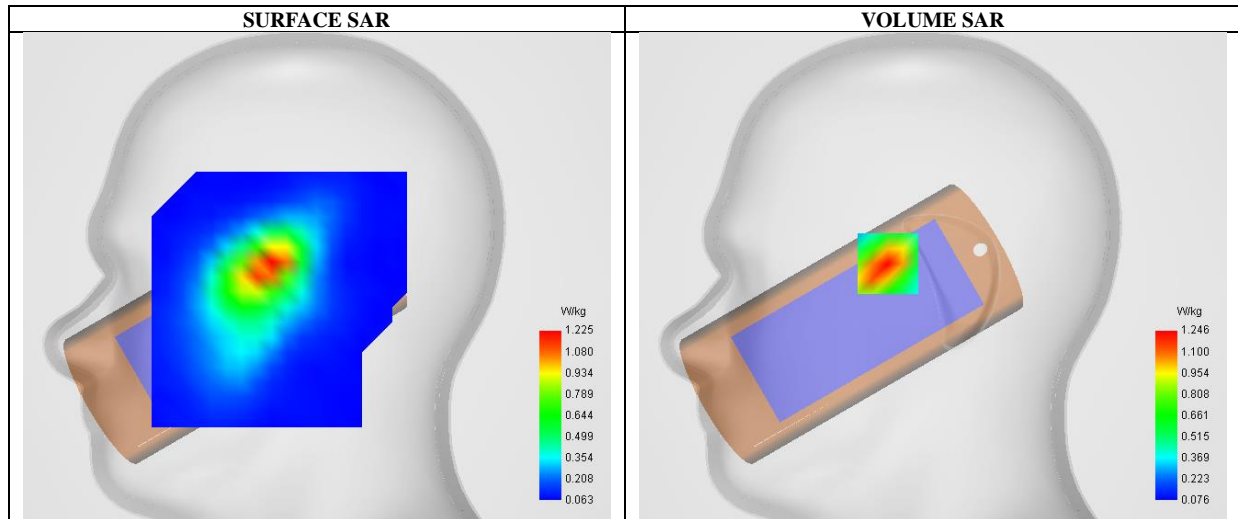
Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/WCDMA band II High-Touch-Right/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/WCDMA band II High-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>	High
<b>Signal</b>	CDMA (Crest factor: 1.0)

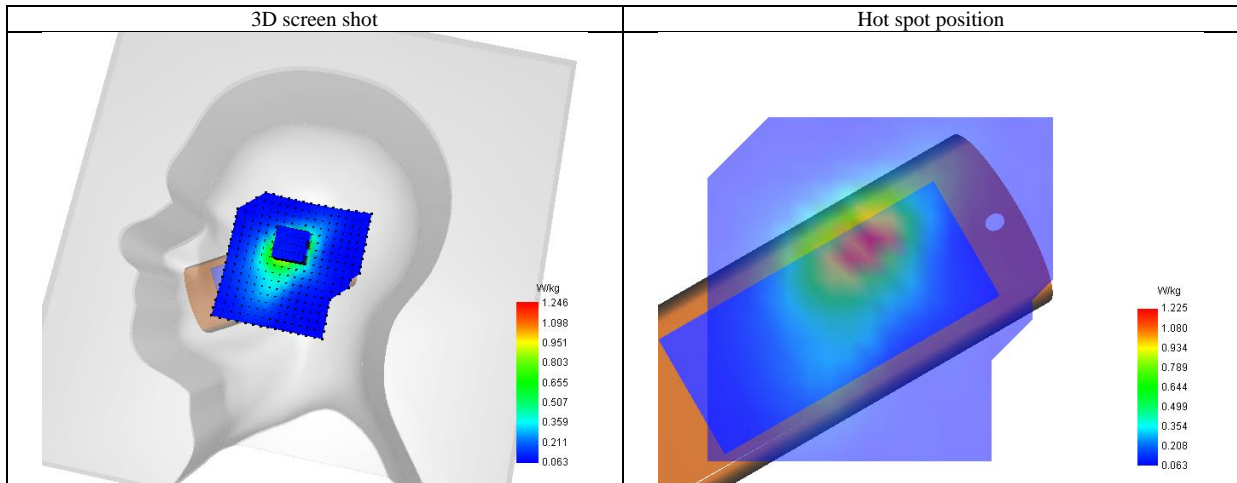
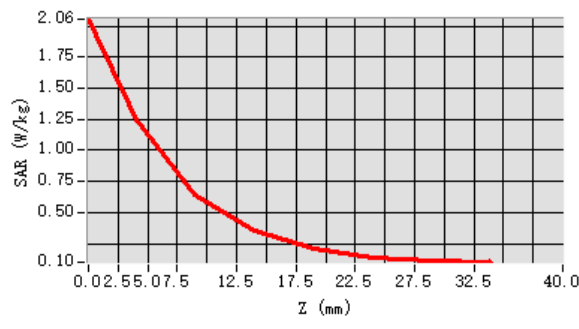


SAR 10g (W/Kg)	0.597
SAR 1g (W/Kg)	1.172
Variation (%)	-0.180
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.542595

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.056	1.246	0.642	0.359	0.213	0.141	0.116



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**Test Laboratory: AGC Lab**  
**WCDMA Band II Mid-Body-Towards Phantom (RMC 12.2kbps)**  
**DUT: VIU-500 model 700; Type: VIU-500 Model 700**

**Date: Apr. 05, 2025**

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.08;  
Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 39.81$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section

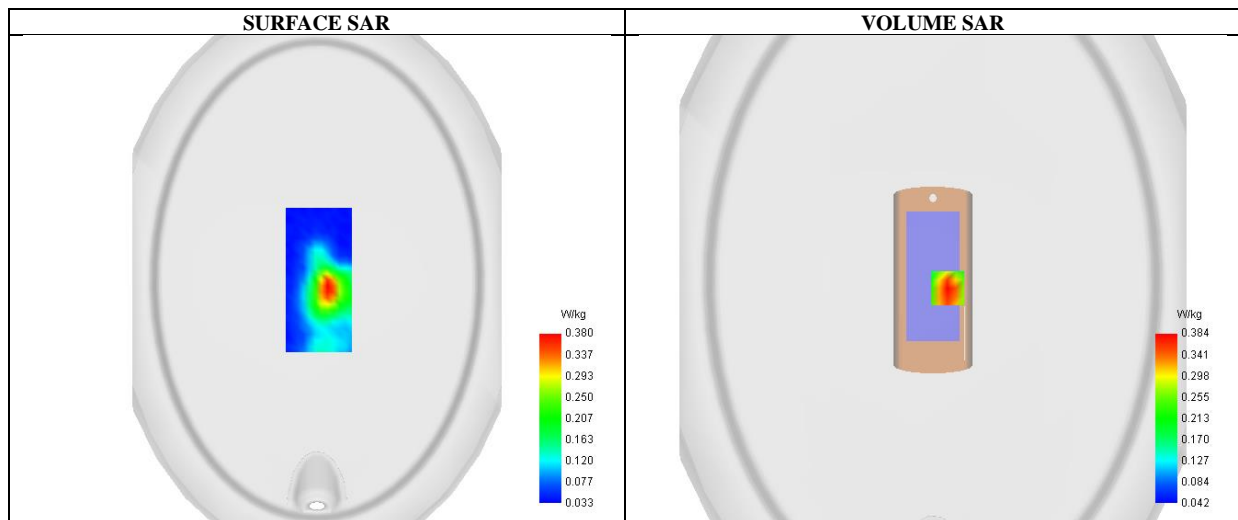
Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/ WCDMA band II Mid-Body-Front/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ WCDMA band II 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>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Front
<b>Band</b>	WCDMA band II
<b>Channels</b>	Middle
<b>Signal</b>	CDMA (Crest factor: 1.0)



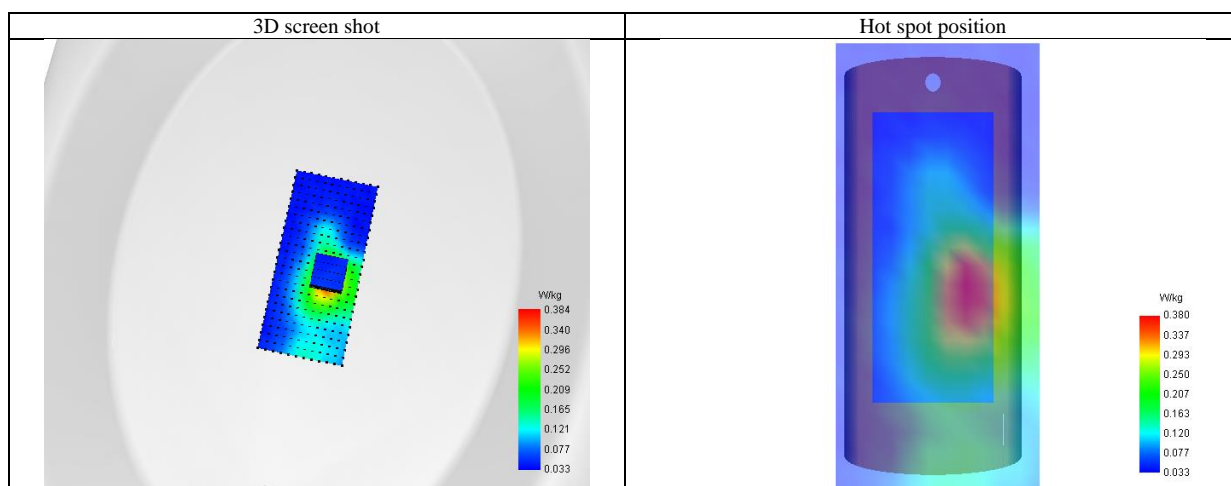
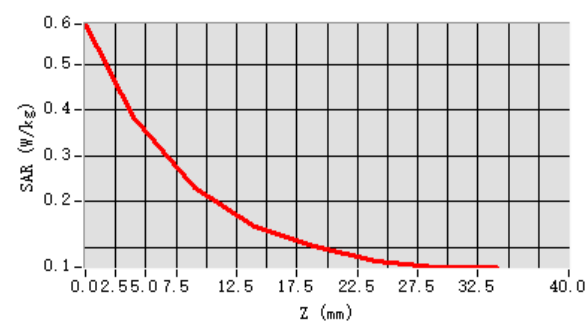
Maximum location: X=14.00, Y=-8.00 ; SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.219
SAR 1g (W/Kg)	0.372
Variation (%)	-2.580
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	59.823852

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.587	0.384	0.230	0.146	0.100	0.070	0.056



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Test Laboratory: AGC Lab

Date: Apr. 07, 2025

WCDMA Band V Mid-Touch-Right (RMC )

DUT: VIU-500 model 700; Type: VIU-500 Model 700

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=1.89;  
Frequency: 836.4 MHz; Medium parameters used:  $f = 835\text{MHz}$ ;  $\sigma = 0.93 \text{ mho/m}$ ;  $\epsilon_r = 41.96$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Right Section

Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

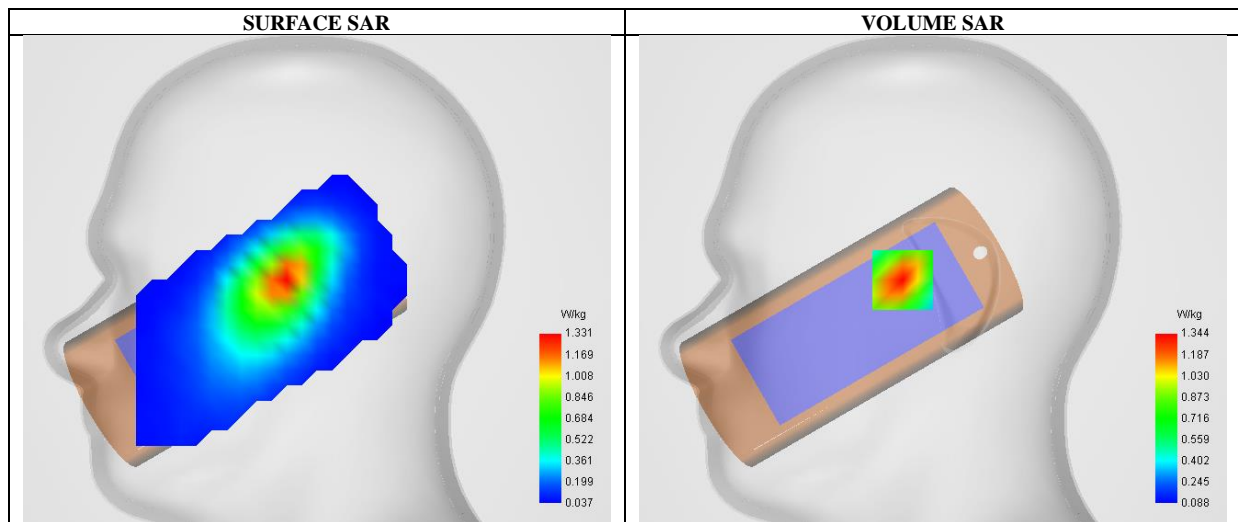
SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

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

Configuration/ WCDMA Band V Mid-Touch-Right/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	$5 \times 5 \times 7$ , $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$ , Complete
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location:  $X=-16.00$ ,  $Y=0.00$  ; SAR Peak: 1.99 W/kg

SAR 10g (W/Kg)	0.676
SAR 1g (W/Kg)	1.196
Variation (%)	-0.500
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.614428

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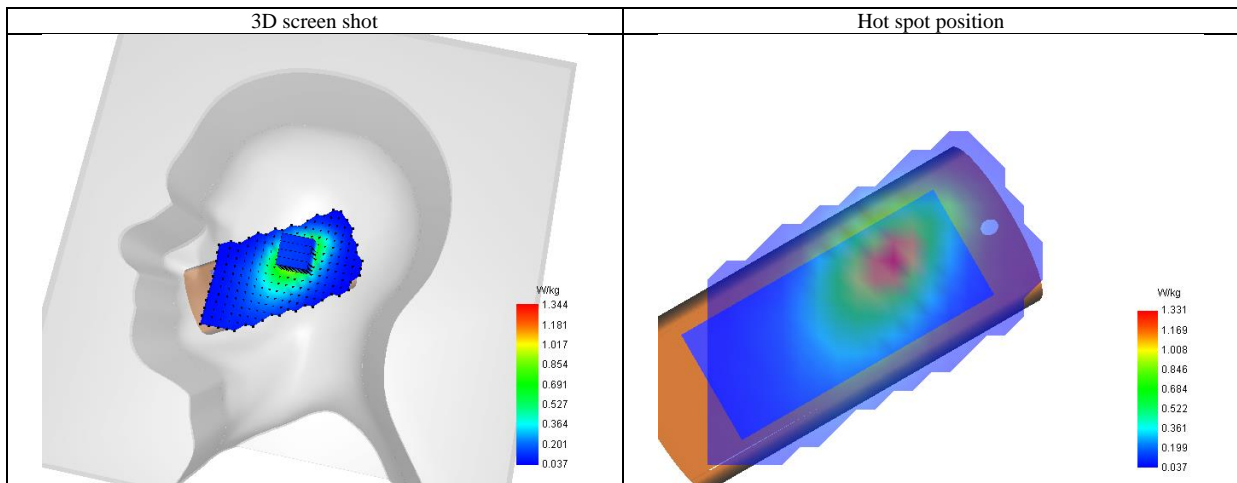
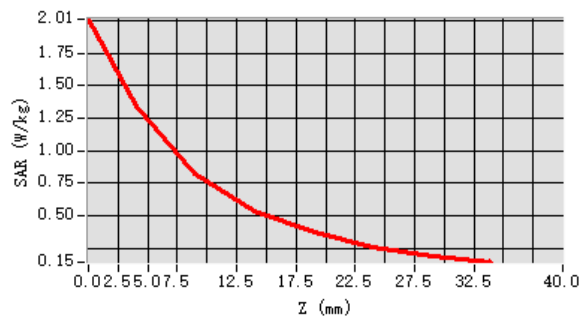
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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.011	1.344	0.828	0.541	0.372	0.264	0.185



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Test Laboratory: AGC Lab

Date: Apr. 07, 2025

WCDMA Band V High-Touch-Right (RMC )

DUT: VIU-500 model 700; Type: VIU-500 Model 700

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=1.89;  
Frequency: 846.6 MHz; Medium parameters used:  $f = 835\text{MHz}$ ;  $\sigma = 0.94 \text{ mho/m}$ ;  $\epsilon_r = 41.36$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Right Section

Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

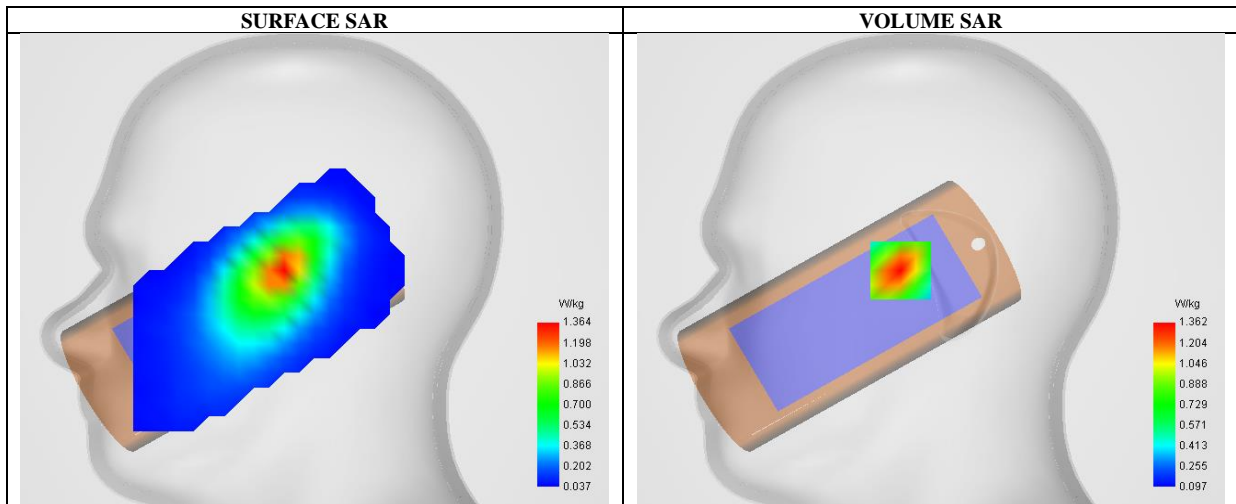
SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ WCDMA Band V High-Touch-Right/Area Scan: Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$

Configuration/ WCDMA Band V High-Touch-Right/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	$5 \times 5 \times 7$ , $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$ , Complete
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band V
Channels	High
Signal	CDMA (Crest factor: 1.0)



Maximum location:  $X=-16.00$ ,  $Y=0.00$  ; SAR Peak: 1.99 W/kg

SAR 10g (W/Kg)	0.685
SAR 1g (W/Kg)	1.209
Variation (%)	-0.740
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.557826

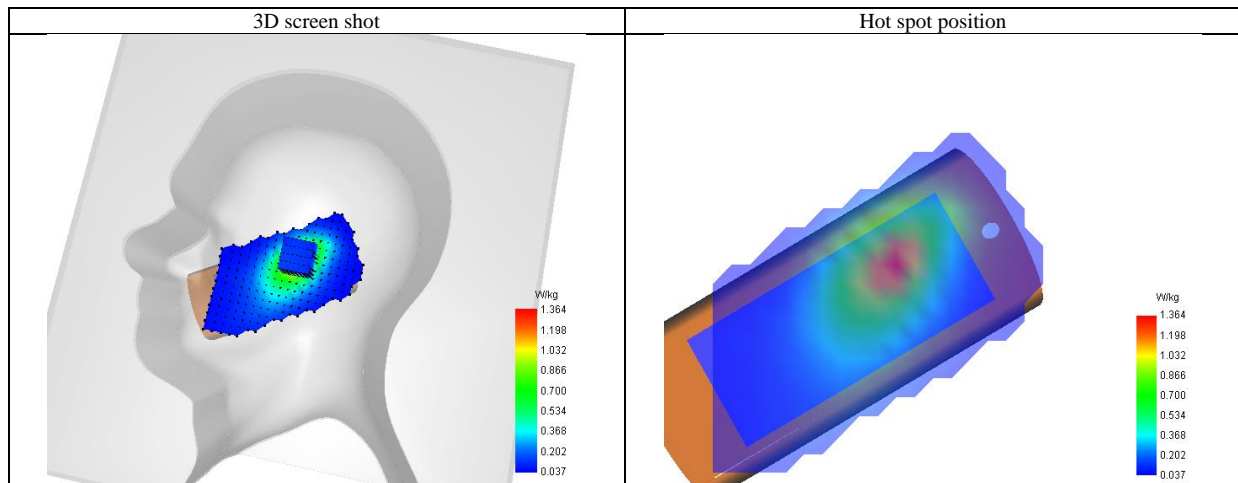
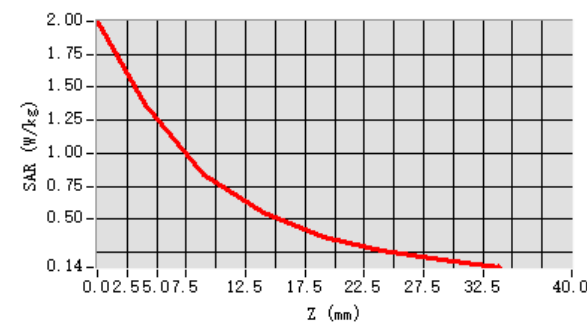
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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.997	1.362	0.838	0.552	0.369	0.260	0.200



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Test Laboratory: AGC Lab

Date: Apr. 07, 2025

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

DUT: VIU-500 model 700; Type: VIU-500 Model 700

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.89;  
Frequency: 836.4 MHz; Medium parameters used:  $f = 835\text{MHz}$ ;  $\sigma = 0.93\text{ mho/m}$ ;  $\epsilon_r = 41.96$ ;  $\rho = 1000\text{ kg/m}^3$  ;  
Phantom section: Flat Section

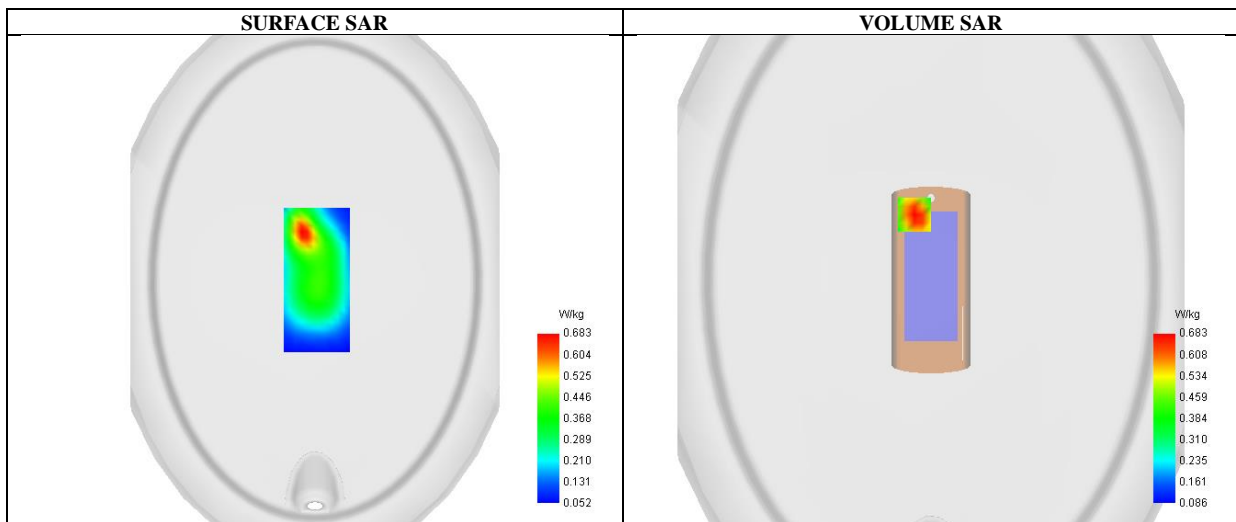
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**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	$5\times 5\times 7$ , $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$ , Complete
Phantom	ELLI
Device Position	Body Front
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-16.00, Y=63.00 ; SAR Peak: 0.93 W/kg

SAR 10g (W/Kg)	0.437
SAR 1g (W/Kg)	0.658
Variation (%)	-3.690
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	69.221733

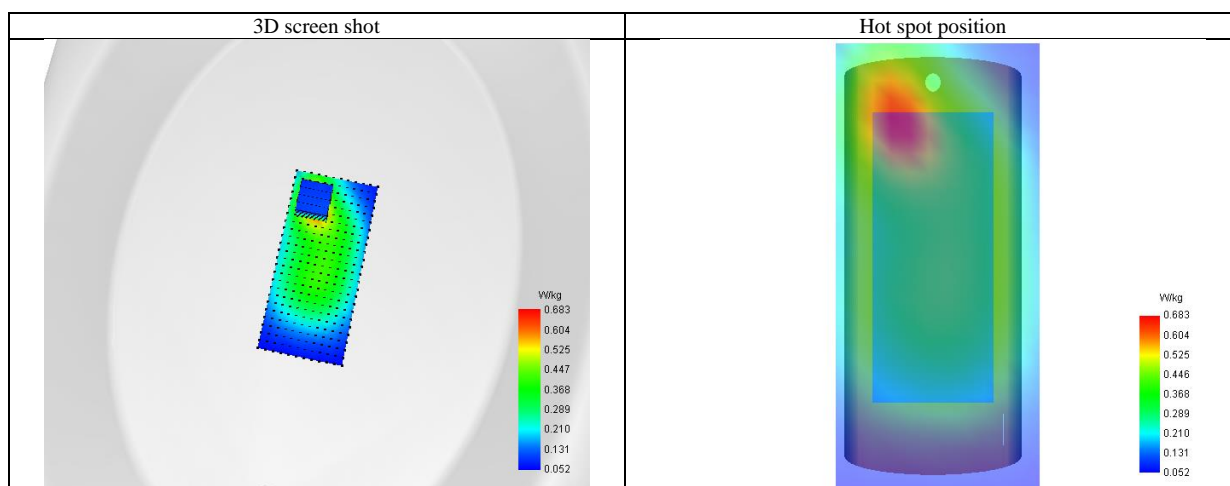
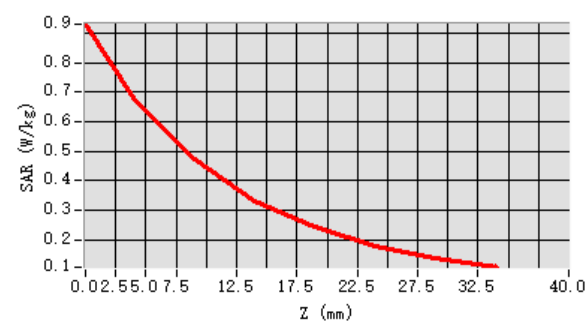
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by [agc01@agccert.com](mailto:agc01@agccert.com).

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.930	0.683	0.473	0.331	0.246	0.178	0.136



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**Test Laboratory:** AGC Lab  
**LTE Band 2 Low-Touch- Right (1 RB#0)**  
**DUT:** VIU-500 model 700; **Type:** VIU-500 Model 700

**Date:** Apr. 05, 2025

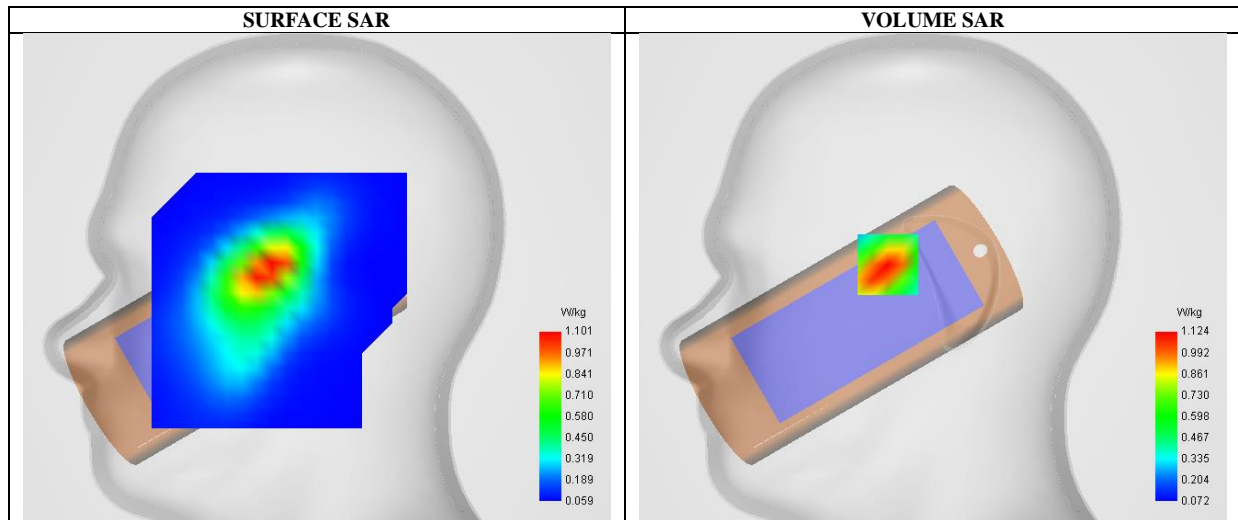
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.08;  
Frequency:1860MHz; Medium parameters used:  $f=1900$  MHz;  $\sigma=1.35$  mho/m;  $\epsilon_r=40.18$ ;  $\rho=1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/ LTE Band 2 Low- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 2 Low- 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>	Low
<b>Signal</b>	OFDM (Crest factor: 1.0)



Maximum location: X=-24.00, Y=7.00 ; SAR Peak: 1.86 W/kg

SAR 10g (W/Kg)	0.559
SAR 1g (W/Kg)	1.071
Variation (%)	-0.900
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.415493

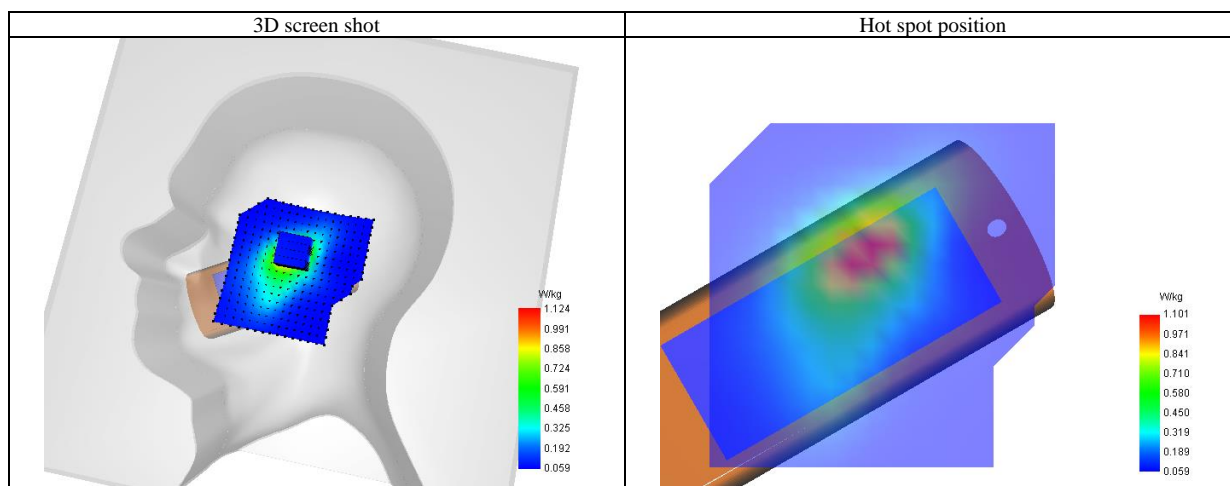
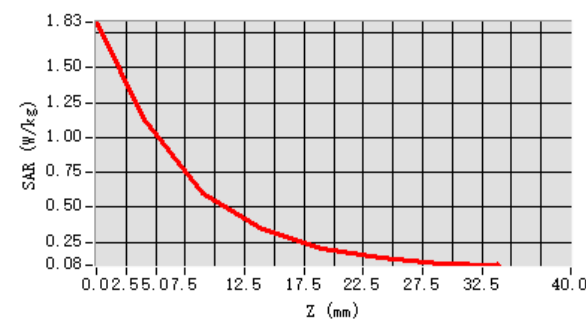
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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SAR (W/Kg)	1.828	1.124	0.600	0.341	0.208	0.139	0.101
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**Test Laboratory: AGC Lab**  
**LTE Band 2 High-Touch- Right (1 RB#0)**  
**DUT: VIU-500 model 700; Type: VIU-500 Model 700**

**Date: Apr. 05, 2025**

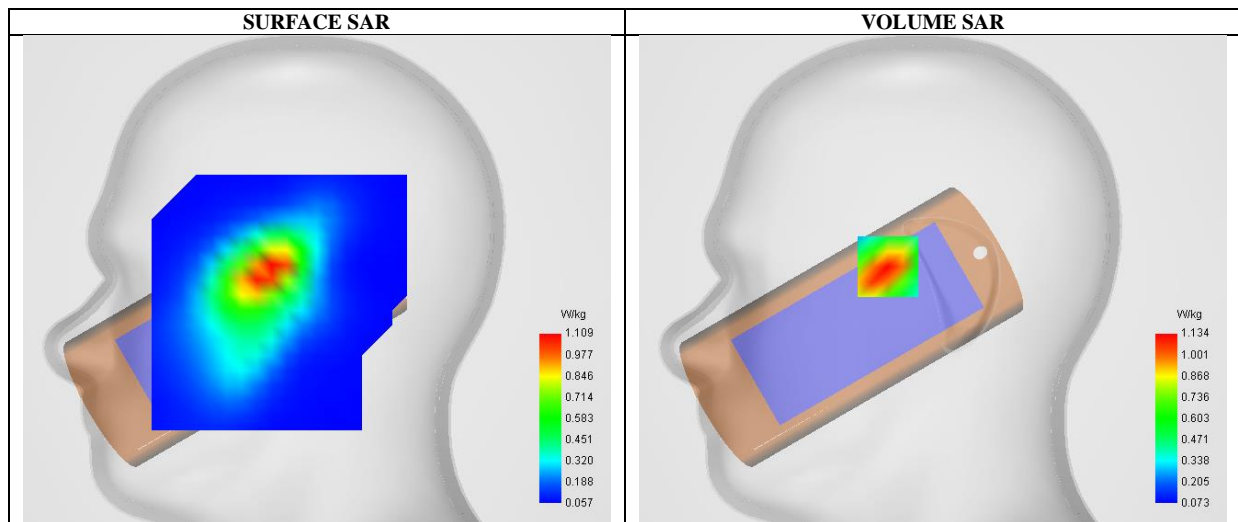
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.08;  
Frequency:1900MHz; Medium parameters used:  $f=1900$  MHz;  $\sigma=1.39$  mho/m;  $\epsilon_r=39.52$ ;  $\rho=1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/ LTE Band 2 High- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 2 High- 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>	High
<b>Signal</b>	OFDM (Crest factor: 1.0)



Maximum location: X=-24.00, Y=7.00 ; SAR Peak: 1.87 W/kg

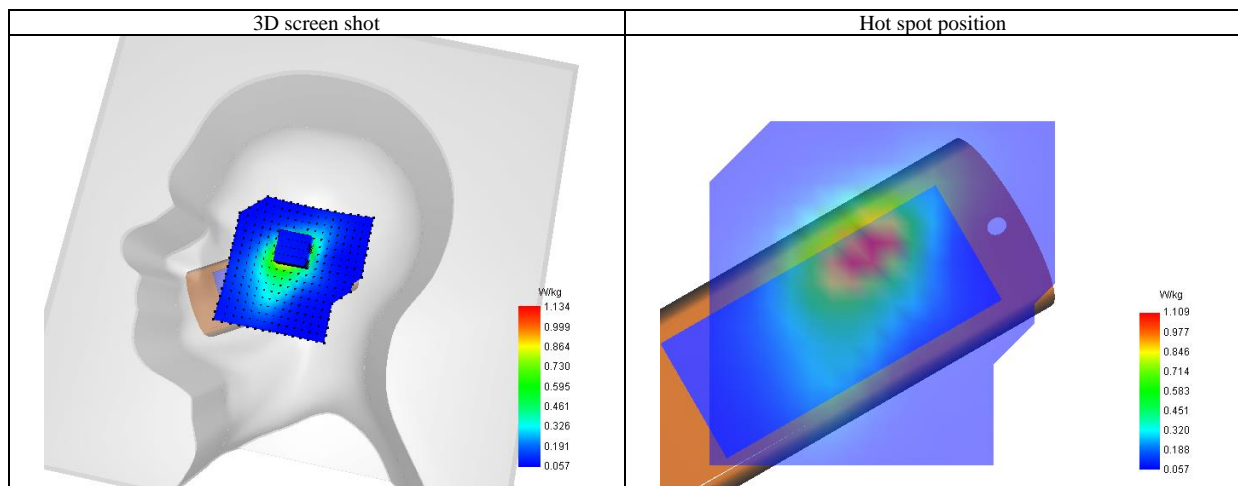
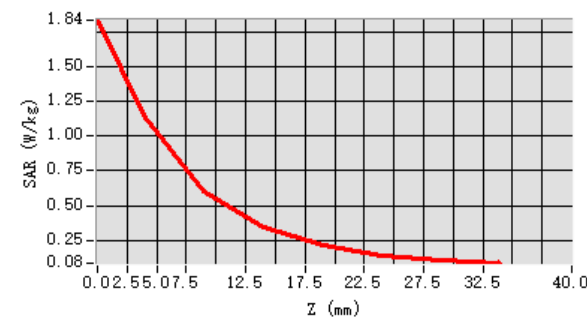
SAR 10g (W/Kg)	0.564
SAR 1g (W/Kg)	1.076
Variation (%)	-1.610
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.369752

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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SAR (W/Kg)	1.837	1.134	0.605	0.342	0.208	0.140	0.105
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**Test Laboratory: AGC Lab**  
**LTE Band 2 Mid-Body-Front (1 RB#0)**  
**DUT: VIU-500 model 700; Type: VIU-500 Model 700**

**Date: Apr. 05, 2025**

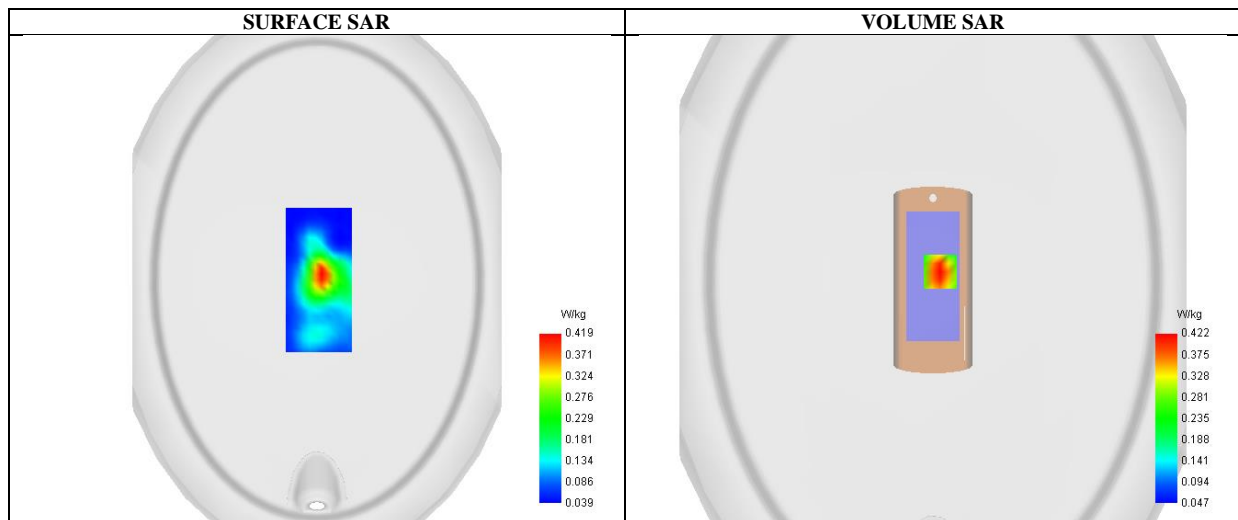
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.08;  
Frequency:1880MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.37$  mho/m;  $\epsilon_r = 40.43$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.8, Liquid temperature (°C): 21.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/ LTE Band 2 Mid-Body-Front/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 2 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
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Front
<b>Band</b>	LTE Band 2
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



Maximum location: X=7.00, Y=8.00 ; SAR Peak: 0.65 W/kg

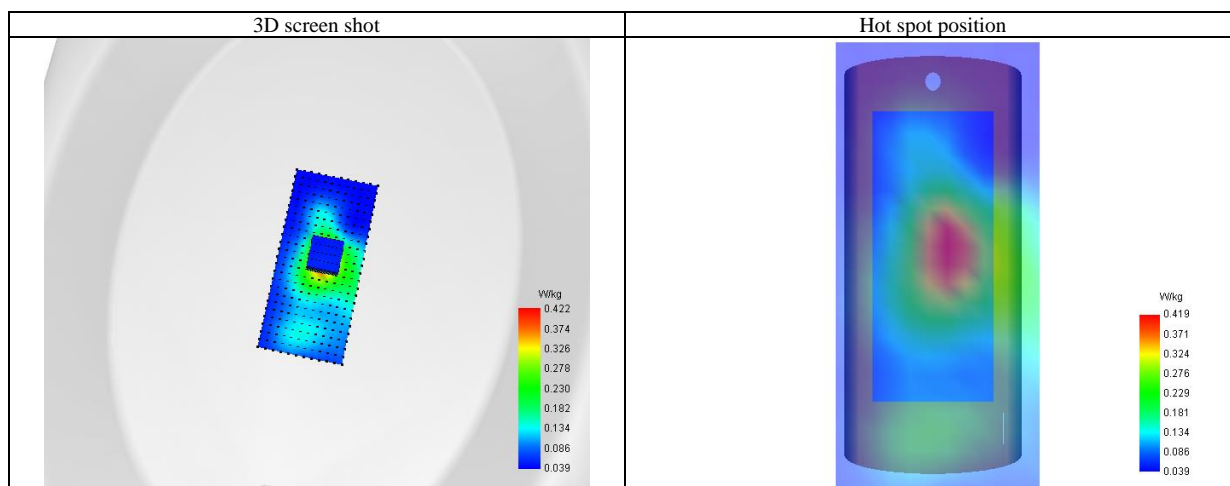
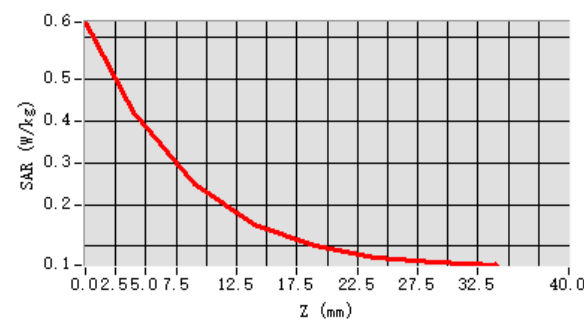
SAR 10g (W/Kg)	0.231
SAR 1g (W/Kg)	0.404
Variation (%)	-5.280
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	59.021902

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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SAR (W/Kg)	0.637	0.422	0.249	0.153	0.102	0.074	0.064
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**Test Laboratory:** AGC Lab  
**LTE Band 4 High-Touch-Left (1 RB#0)**  
**DUT:** VIU-500 model 700; **Type:** VIU-500 Model 700

**Date:** Apr. 06, 2025

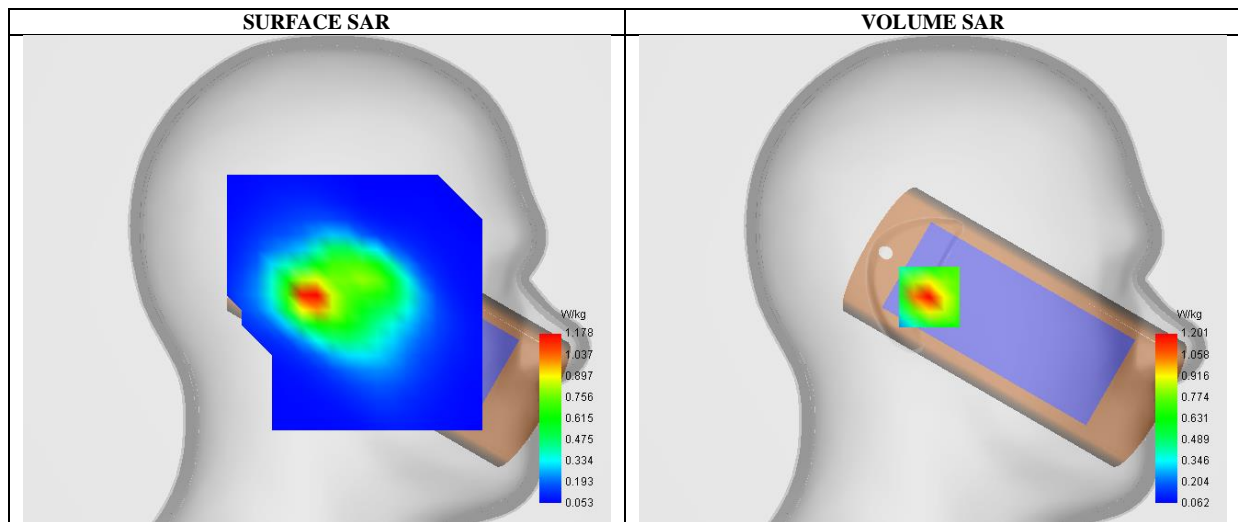
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.28;  
Frequency:1745 MHz; Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.38$  mho/m;  $\epsilon_r = 39.86$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Left Section  
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.1

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/ LTE Band 4 High- Touch-Left /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 4 High- Touch-Left /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>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 4
<b>Channels</b>	High
<b>Signal</b>	OFDM (Crest factor: 1.0)



Maximum location: X=2.00, Y=-9.00 ; SAR Peak: 2.13 W/kg

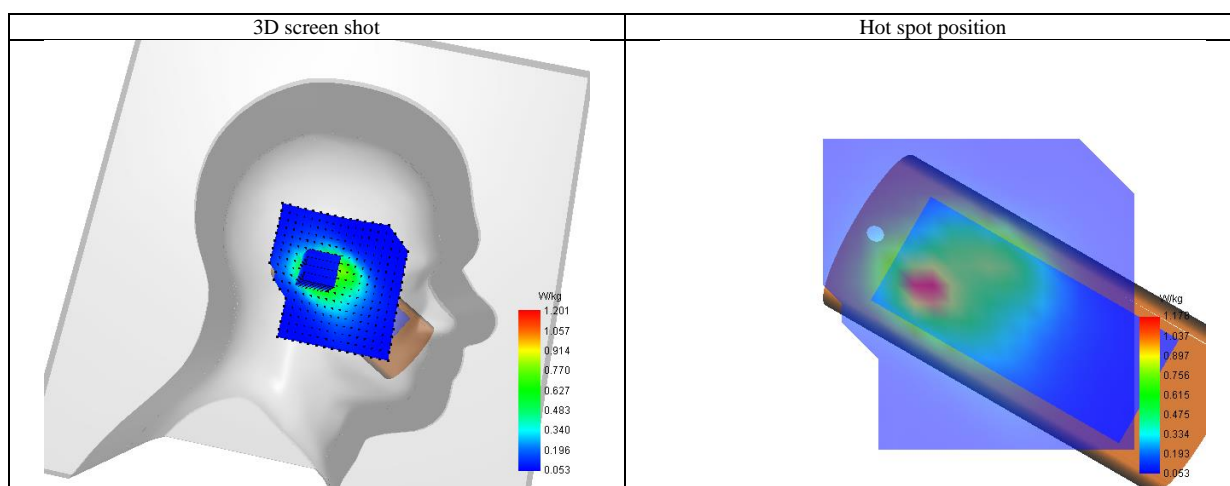
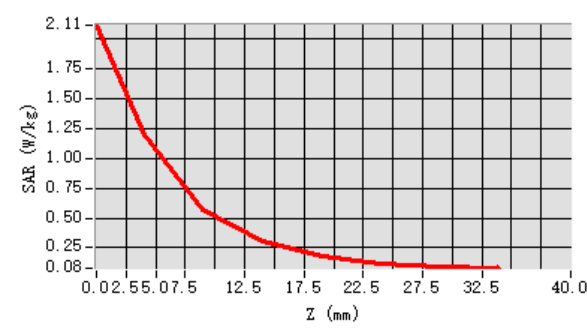
SAR 10g (W/Kg)	0.532
SAR 1g (W/Kg)	1.133
Variation (%)	-0.760
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	47.144135

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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SAR (W/Kg)	2.109	1.201	0.566	0.300	0.179	0.122	0.095
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**Test Laboratory: AGC Lab**  
**LTE Band 4 Mid-Body-Front (1 RB#0)**  
**DUT: VIU-500 model 700; Type: VIU-500 Model 700**

**Date: Apr. 06, 2025**

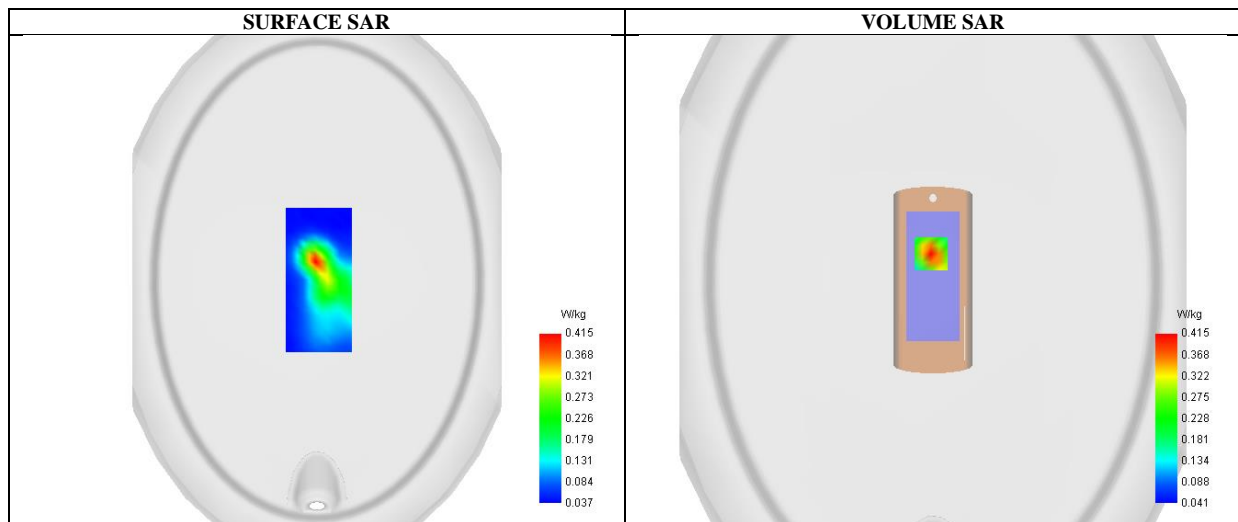
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.28;  
Frequency:1732.5 MHz; Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 40.39$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/ LTE Band 4 Mid-Body-Front/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 4 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
<b>Phantom</b>	ELLI
<b>Device Position</b>	Body Front
<b>Band</b>	LTE Band 4
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



Maximum location: X=-2.00, Y=25.00 ; SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.224
SAR 1g (W/Kg)	0.391
Variation (%)	1.910
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	58.839211

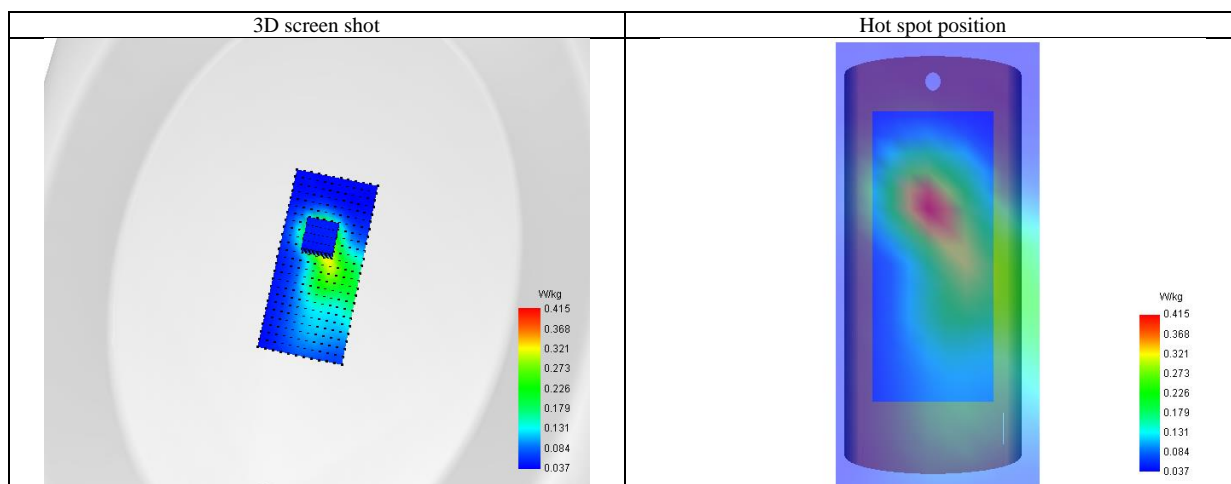
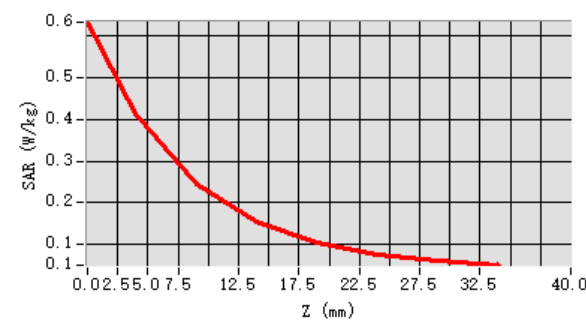
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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SAR (W/Kg)	0.633	0.415	0.244	0.156	0.103	0.077	0.061
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**Test Laboratory: AGC Lab**  
**LTE Band 5 High-Touch-Right (1 RB#0)**  
**DUT: VIU-500 model 700; Type: VIU-500 Model 700**

**Date: Apr. 07, 2025**

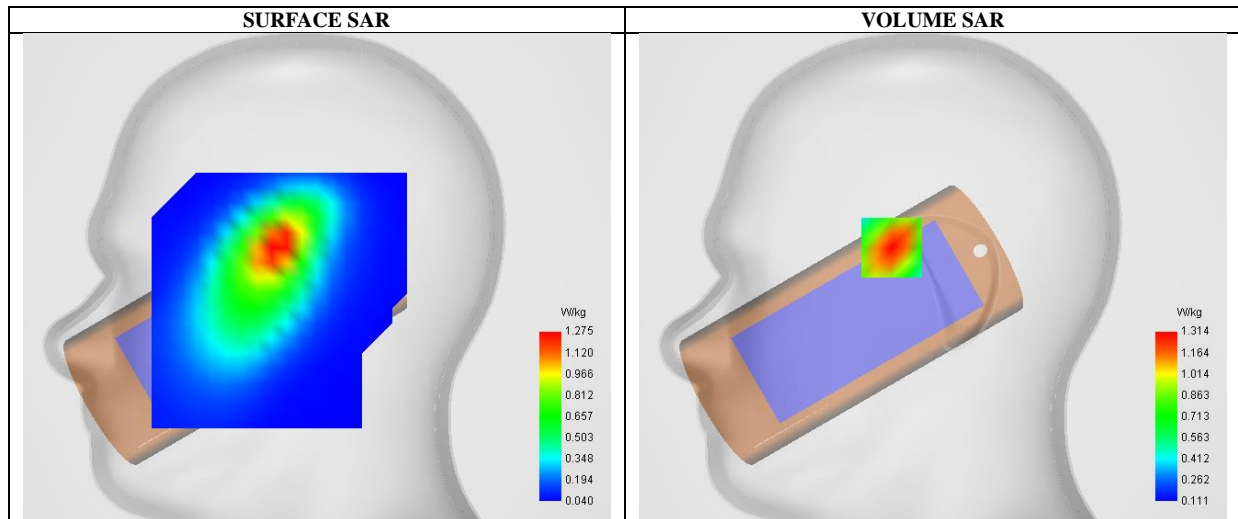
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.89  
Frequency: 844 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma=0.94 \text{ mho/m}$ ;  $\epsilon_r=41.68$ ;  $\rho= 1000 \text{ kg/m}^3$  ;  
Phantom section: Left Section  
Ambient temperature ( $^{\circ}\text{C}$ ): 20.8, Liquid temperature ( $^{\circ}\text{C}$ ): 20.5

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

**Configuration/ LTE Band 5 High-Touch-Right /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$   
**Configuration/ LTE Band 5 High-Touch-Right /Zoom Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ ;

<b>Area Scan</b>	$dx=8\text{mm}$ $dy=8\text{mm}$ , $h= 5.00 \text{ mm}$
<b>Zoom Scan</b>	$5\times 5\times 7$ , $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 5
<b>Channels</b>	High
<b>Signal</b>	OFDM (Crest factor: 1.0)



Maximum location:  $X=-22.00$ ,  $Y=16.00$  ; SAR Peak: 1.88 W/kg

SAR 10g (W/Kg)	0.723
SAR 1g (W/Kg)	1.201
Variation (%)	-1.500
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	64.952495

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